



SOUTHWESTERN

AN OREGON COMMUNITY COLLEGE

NWCCU 2020 Comprehensive Report *21 Exhibits*



SECURITY AND ACCESS

It is the Administrative procedure of the Southwestern Oregon Community College District that the security staff hired by the College is primarily responsible for the physical security of the campus buildings and facilities.

Individuals on campus (students, employees, visitors, etc.) should take active responsibility for their personal property. The College will provide information on crime awareness and prevention in accordance with Administrative Procedure *Security and Crime Prevention Programs*.

Should the need arise to contact emergency assistance from campus phones: to reach Campus Security, pick up a black emergency phone or dial 541-297-4200, or dial 9911 from an office phone to reach the 911 operator.

All College security personnel are equipped with portable radios at all times enabling them to dial 911 from any location on campus to contact Coos Bay Police Department to respond to criminal actions or other agencies for on campus emergencies (fire, accident, etc.). In addition, security personnel will render any individual assistance they are able to provide.

College personnel shall cooperate fully with local, state and federal law enforcement agencies as they seek to protect life and property, to prevent anti-social behavior, and to preserve a secure environment in the locations where students reside on campus, classes are held, and offices are located. It is the responsibility of students and staff to report all crimes, even those considered minor, to the Campus Security Department. All suspicious activity and other emergencies should be reported to the Campus Security Department or another administrator as promptly as possible.

The College will maintain its grounds and lighting to ensure the campus is as secure as possible.

Security for student groups, College affiliated groups and community use of College buildings and facilities is covered by College procedures *Access to College Facilities*, and *Approval of College Affiliated Groups* respectively.

The College shall develop campus security procedures and individual crime awareness/prevention procedures.

Any security issues or concerns about security will be handled by the Vice President of Administrative Services.

Adopted by Board of Education:
Procedure # 1.070 April 20, 1992
Changed to Administrative Procedure January 22, 1996
Reviewed March 14, 2013 (Formerly Admin. Policy 5.002)
Revised: December 7, 2016



SOUTHWESTERN

AN OREGON COMMUNITY COLLEGE

2019

Annual Campus Crime/Annual Fire Safety (Clery Act) Report

(statistics for 2016, 2017 and 2018 calendar years)

The federal Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act (Clery Act) requires colleges and universities, both public and private, participating in federal student aid programs to disclose campus safety information and imposes certain basic requirements for handling incidents of sexual violence and emergency situations. Disclosures about crime statistics and summaries of security policies are made once a year in the Annual Campus Crime/Annual Fire Safety Report and information about specific crimes and emergencies is made publicly available on an ongoing basis throughout the year.

The Clery Act is named in memory of Jeanne Clery who was raped and murdered in her residence hall room by a fellow student she did not know on April 5, 1986. Her parents championed laws requiring the disclosure of campus crime information, and the federal law that now bears their daughter's name. It has been amended regularly over the years to keep up with changes in various laws including the Violence Against Women Act.

Below are Southwestern's policies and procedures that are in place to protect and maintain a safe educational and work environment. In addition, Student Housing completes an Annual Fire Safety Report that is also a Clery Act requirement. This report includes both the Annual Fire Safety report and Campus Crime information.

Hard copies of this report may be obtained by calling 541-888-7206

Southwestern Oregon Community College does not discriminate on the basis of race, color, gender, sexual orientation, marital status, religion, national origin, age, disability status, gender identity, or protected veterans in employment, education, or activities as set forth in compliance with federal and state statutes and regulations.

Table of Contents

Annual Disclosure of Crime Statistics	3
Campus Description	3
Campus Facility Access and Security	4
Campus Security Department	5
Weapons on Campus.....	6
Crime Reporting	6
Daily Crime Log.....	7
Crime Prevention Programs/Safety Security Training	8
Monitoring and Recording Criminal Activity at Off-Campus Locations.....	9
Missing Student Notification in Student Housing	9
Emergency Notification	11
Timely Warnings.....	12
VAWA Crime Definitions	13
Sexual Assault, Domestic Violence, Dating Violence & Stalking Prevention and Response (VAWA Crimes)	15
Victim’s Rights/Procedures for Victims to Follow for Domestic Violence, Dating Violence, Sexual Assault, or Stalking (VAWA Crimes)	16
Services/Accommodations Available for Victims.....	18
Protective Orders	22
Voluntary Confidential Reporting	23
Domestic Violence, Dating Violence, Stalking, or Sexual Assault Crime Victim Information (VAWA Crimes)	24
Investigatory Proceedings & Disciplinary Action for Alleged Crimes of Sexual Assault, Domestic Violence, Dating Violence & Stalking (VAWA crimes).....	25
Sexual Assault, Domestic Violence, Dating Violence & Stalking Awareness Training	31
Bystander Intervention Guidelines.....	32
Risk Reduction	33
Recognizing Abusive Behavior.....	33
On and Off Campus Counseling and Assistance Programs for Sexual Assault, Domestic Violence, Dating Violence & Stalking Victims	35
Sex Offender Information	35
Drugs and Alcohol (Board Policy 7135, Admin. Policy 7135)	36
Drug/Alcohol Abuse Education Programs	38
Emergency Evacuation and Response.....	39
Campus Statistics	43
Annual Fire Safety Report	49
Fire Safety Procedures	51
Fire Safety Education and Training.....	52
Fire Safety Contacts.....	52
Fire Log/Fire Statistics	53
Appendix A: Emergency Response Plan	55
Appendix B: Earthquake/Tsunami.....	69

Annual Disclosure of Crime Statistics

Southwestern Oregon Community College prepares this report in compliance with the *Jeanne Clery Disclosure of Campus Security Policy and Crime Statistics Act* to address campus crime and safety issues. This report is prepared in cooperation with local law enforcement agencies surrounding the Coos Bay campus, Brookings campus, and alternate sites. Although Southwestern solicits all local and state law enforcement for Clery statistics where classes are held by Southwestern, not all agencies respond to this request. This report is annually compiled by Administrative Services in conjunction with the Campus Security Director and the Director of Student Housing.

Campus crime, arrest and referral statistics are obtained from Incident Reports provided to Campus Security, appropriate Campus Security Authorities (CSAs), and various local law enforcement agencies. Each year, an e-mail notification is sent to all enrolled students and staff that provides the web address to access this report. Hard copies of the report may be obtained by calling Administrative Services at 541-888-7206. All prospective employees may also obtain a copy from Administrative Services. A link to this report is also included on the Human Resources webpage.

Crimes reported under the Clery Act include the following:

Criminal Offenses—Criminal Homicide, including Murder and Non-negligent Manslaughter, and Manslaughter by Negligence, Sexual Assault, including Rape, Fondling, Incest and Statutory Rape; Robbery; Aggravated Assault; Burglary; Motor Vehicle Theft; and Arson;

Hate Crimes—Any of the above-mentioned offenses, and any incidents of Larceny-Theft, Simple Assault, Intimidation, or Destruction/Damage/Vandalism of Property that were motivated by bias;

VAWA Offenses—Any incidents of Domestic Violence, Dating Violence and Stalking. Note that Sexual Assault is also a VAWA Offense but is included in the Criminal Offenses category for Clery Act reporting purposes; and

Arrests and Referrals for Disciplinary Action—for Weapons, Carrying, Possessing, Law Violations, Drug Abuse Violations and Liquor Law Violations.

Campus Description

COOS BAY CAMPUS

Southwestern is a 153 acre institution which lies completely within the City of Coos Bay and is bordered on the north and east by the City of North Bend. On the Coos Bay campus, there are 31 buildings including 18 Student Housing buildings.

1988 Newmark Avenue
Coos Bay, OR 97420
541-888-7525

The Coos Bay Campus has a Campus Security officer available 24 hours per day, 7 days per week that may be reached at 541-297-4200. Below are borders of the Coos Bay campus for Clery Act geography reporting.



CURRY CAMPUS

The Curry Campus is a two-story, 24,918 square foot "campus in a building". The facility has seven classrooms, and several support areas dedicated for tutoring, studying, testing, etc. The facility is also designed as a community hub for short-term training and conferences. The campus building and associated parking lot occupy roughly five acres of the site. There is no Student Housing on the Curry Campus.

96082 Lone Ranch Pkwy
 Brookings, OR 97415
 541-888-1667

Campus Facility Access and Security

COOS BAY CAMPUS

Per [APP 10031 Access to College Facilities](#), campus facilities generally will be open when classes are in session. Offices, support spaces, and some instructional spaces may be locked to protect College property and individuals from injury. Facilities will be locked when classes are not in session. Southwestern is considered an "open" campus in that there is public access to buildings and spaces.

Keys or access control cards will be issued to College staff or students with a continuing need to enter specific locations. Key request forms (available at [Key Request](#)) will be signed by the Director of Facilities Services prior to keys being issued. Student Housing key cards do not require the above form/signature; residents are issued key cards during the initial check-in process.

Keys or access control cards shall not be issued for community use of facilities or for student use without the approval of a College representative. Community use will be scheduled with the Facilities Department and Campus Security shall provide access on a prearranged schedule. Campus Facilities (541-888-7250) issues keys and/or key cards for approved employees, staff, and community members. Emergency access to campus facilities is available from Campus Security at 541-297-4200 or Campus Facilities at 541-888-7250.

Some facilities may have individual hours, which may vary at different times of the year. Examples are the Recreation Center, the Library, and the Bookstore. In these cases, the facilities will be secured according to schedules developed by the department responsible for the facility. Emergencies may necessitate changes or alterations to any posted schedules. Areas that are revealed as problematic may have electronic surveillance conducted of them that is viewed by the Vice President of Administrative Services, Student Housing, and other appropriate staff.

To enhance campus safety, Southwestern's Safety Committee performs quarterly building inspections of each building on campus to ensure that stairwells, hallways, and egress lighting are functioning. These inspections may also include security issues such as landscaping, locks, alarms, and lighting.

Student Housing utilizes a card access system that helps increase security for student residents. Students, faculty and staff with encoded ID cards are afforded access to specific apartment doors in Housing. Aside from specific Housing staff, only the ID cards issued to those students assigned as building residents permit access to apartments in that building.

Doors not providing ID card access have locks to which only Housing, Campus Security, and Facilities staff have keys for emergency access.

CURRY CAMPUS

Curry facilities are open from 8:30 a.m.-9:00 p.m. Monday through Thursday and 8:30 a.m.-5:00 p.m. on Friday. Offices and support spaces may be locked when not in use to protect College property and individuals from injury. Facilities will be locked when classes are not in session. Keys are issued in the same manner as for the Coos Bay Campus. Emergency access to the building is available through the Executive Dean of Curry Campus at 541-813-1672 or 208-610-6853 (cell). The Curry Campus has electronic surveillance running 24/7 in various areas of the building. For more detailed information, contact Doug Bunn, Executive Dean of Curry Campus.

Campus Security Department

Southwestern Campus Security staff is responsible for all security activities on campus. All security officers are certified through the Oregon Department of Public Safety and Standards Training (DPSST) as unarmed, private security officers. Campus Security officers have the authority to ask persons for identification and to determine whether individuals have lawful business at Southwestern. Campus Security Officers do not possess arrest power. Criminal incidents are referred to the Coos Bay Police Department who has jurisdiction on the campus. Southwestern Campus Security can be reached 24/7 at 541-297-4200.

For the purpose of campus security policies, some types of criminal actions occurring on campus property may be investigated by the Campus Security Department and the Coos Bay Police Department jointly, including sex offenses if victims chose to involve law enforcement. The Campus Security Department at Southwestern maintains a highly professional working relationship with the Coos Bay Police Department. Campus Security and Coos Bay

Police officers communicate regularly on the scene of incidents that occur in and around the College. Campus Security also works closely with Coos Bay Police when incidents arise that require joint investigative efforts, resources, crime related reports, and exchanges of information, as deemed necessary. There are no written Memoranda of Understanding between Southwestern and local law enforcement agencies. Lastly, Campus Security rarely interacts with state law enforcement as Coos Bay Police respond to the Coos Campus and Brookings Police to the Curry campus, but on occasion state law enforcement may be called into support local law enforcement for backup on certain situations.

CURRY CAMPUS

The Curry Campus has no Campus Security Department. Brookings Police Department regularly patrols the campus both during operational hours and after hours. They can be reached at 541-469-3118. General facilities questions may be answered by Curry Facilities employee Michael Wolf at 541-813-1675 or Executive Dean of Curry Campus Doug Bunn for after hours at 208-610-6853.

Weapons on Campus

The use, or threatened use of firearms, ammunition, knives, explosives, dangerous chemicals, or any other objects as weapons on College property, except as expressly authorized by law or institutional regulations, is prohibited at Southwestern.

Crime Reporting

All community members, students, faculty, and staff crime victims and witnesses are strongly encouraged to immediately report crimes and campus safety related emergencies occurring on property owned, leased, or otherwise controlled by Southwestern, to Southwestern Campus Security (541-297-4200). Campus Security will then contact the appropriate local law enforcement agency depending on where the crime occurred. Staff, students, faculty and community members may also directly report crimes to appropriate police agencies, but then need to also contact Campus Security with the crime information. Violations of the law may also be referred to the Vice President of Enrollment and Student Services or the Vice President of Administrative Services for review as appropriate. Prompt reporting will assure timely warning notices of campus emergencies and timely disclosure of crime statistics. Witnesses are also encouraged to report crimes they witness or are aware of when the victim of a crime elects to, or is unable to, make such a report.

For incidents that do not pose a threat to the campus, are not in progress, or are potential violations of school policy only, please contact Southwestern Campus Security at 541-297-4200 or use one of the black emergency phones on campus. The black phones are located in buildings throughout campus and go directly to Campus Security. In cases of emergency, violent crime or a crime in progress, call 911 and request assistance from local law enforcement. Campus Security should then be notified after local law enforcement is contacted. An [Incident Report](#) should also be completed and sent to Campus Security.

Incident reports are forwarded to the appropriate department on campus for review and potential follow up. If further investigation is required, the Vice President of Administrative Services will assign the appropriate Southwestern personnel to follow up on the incident.

To report a non-emergency security or public safety related matter, call Campus Security at 541-297-4200 or Coos Bay Police at 541-269-8911. Brookings Police may be reached at 541-469-3118 for non-emergencies.

Campus security requires the combined efforts of students, staff, and Campus Security officers. Do your part by immediately reporting suspicious behavior, activities, or crimes to the College Campus Security Department. Any suspicious activity or person seen in parking lots, near Residence Halls, or other buildings on campus, should be reported to Coos Bay Police at 911 or 541-269-8911 (non-emergencies), or Campus Security. When a potentially dangerous threat to the College community arises, timely warnings will be issued immediately through e-mail announcements, in-class announcements, text messages, or other appropriate means. It is important that official reports of crimes and emergencies be made immediately for Southwestern to notify the campus of dangerous conditions or ongoing criminal activities that present a risk of harm to persons or property at Southwestern.

Criminal offenses may also be reported to one of the following authorities on campus who will in turn inform Campus Security.

POSITION	NAME	CONTACT INFO	HOURS OF OPERATION
Vice President of Administrative Services	Jeff Whitey (Title IX Coordinator)	(office) 541-888-7402 (cell) 541-297-4209	M-F 8:30 a.m.-5:30 p.m.
Vice President of Enrollment and Student Services	Tim Dailey	(office) 541-888-7439 (cell) 541-404-0999	M-F 8:30 a.m.-5:30 p.m.
Director of Residence Life	Joe Belter	(office) 541-888-7800 (cell) 503-954-5583	M-F 8:30 a.m.-5:30 p.m.

Daily Crime Log

A Daily Crime Log is posted outside of Administrative Services (Tioga 511) that can be viewed by anyone which contains information on the type of crime committed, location, date/time of crime, and the disposition of the crime. The purpose of the Daily Crime Log is to record all criminal incidents and alleged criminal incidents that are reported to Campus Security and local law enforcement by students, staff and community members. There is no personally identifiable information on this report. Southwestern may withhold information required from the Daily Crime Log if there is clear and convincing evidence that the release of the information would:

- jeopardize an ongoing investigation;
- jeopardize the safety of an individual;
- cause a suspect to flee or evade detection; or
- result in the destruction of evidence.

Once the adverse effects described above are no longer likely to occur, Southwestern will disclose information that was withheld on the Daily Crime Log; again, no personally identifiable information will be included on the crime log.

CURRY CAMPUS

To report a crime on the Curry Campus, you may either contact the Brookings Police Department at 541-469-3118, Campus Security at 541-297-4200, or one of the below Curry staff for assistance. Criminal offenses reported to one of the following authorities on campus will be conveyed to Campus Security who will contact Brookings Police Department. You should also complete an [Incident Report](#) and return it to a Curry staff member who will forward it to Administrative Services within 24 hours of the incident. The Curry campus does not maintain a Crime Log as they have no Campus Security on site.

Doug Bunn, Executive Dean of Curry Campus

541-813-1672, 208-610-6853 (cell)

E-mail to: [Doug Bunn](#)

Aleta Mankamyer, Assistant Director Curry Campus

541-813-1671

E-mail to: [Aleta Mankamyer](#)

You may also contact the Brookings Police Department at:

898 Elk Drive
Brookings, OR, 97415
Business 541-469-3118 (non-emergency)

Crime Prevention Programs/Safety Security Training

Individuals on campus (students, employees, visitors, etc.) should take active responsibility for the security of their personal property and safety. The College is not responsible for any personal property losses. All students and employees need to be aware of their responsibility for their own security and the security of others. Student Housing and Campus Security staff are always available to answer questions about crime prevention.

During fall New Student Orientation, students and parents are informed of services offered by Campus Security. Video presentations outline ways to maintain personal safety and residence hall security. New students are introduced to learning safe personal habits during New Student Orientation when Campus Security and Student Housing staff discuss safety issues including prevention of burglary and vandalism. Emphasis is placed on teaching students to be responsible for one another to ensure the safety of the Southwestern community. Housing staff are trained on how to recognize and report crimes when they occur and how to promote the development of a sense of social responsibility in the campus community. First time students are also informed of sexual assault, dating violence, domestic abuse, stalking and drug and alcohol issues through *Get Inclusive*, Southwestern's online risk management module for students.

Similar information is presented to new employees using *SafeColleges*, Southwestern's online safety training module for staff. Staff training includes sexual assault, dating violence, domestic abuse, stalking and drug and alcohol issues through *SafeColleges*.

Annually, links to Southwestern safety and security information are sent to staff and students via campus e-mail. The link locations are: [Emergency Action Plan](#), [Campus Evacuation Maps](#), [Campus Security](#) and this Annual Campus Crime/Annual Fire Safety report.

THREAT ASSESSMENT TEAM

Southwestern has a Threat Assessment Team dedicated to preventing acts of perceived risk or violence on campus. The team endeavors to identify, assess, advise and/or manage situations where there is a perceived risk of violence. They discuss reports on students of concern, assess specific situations, and refer them to counseling and other services if needed, including reaching out to faculty and other staff as necessary. Membership includes the Director of Campus Security, Vice President of Enrollment and Student Services, Vice President of Administrative Services, Chief Human Resources Officer, Coordinator of Student Life and Events, Director of Residence Life, Assistant to the Vice President of Enrollment and Student Services and the Director of Disability Services.

CURRY CAMPUS

The Curry Campus also has New Student Orientation where questions about student safety concerns may be answered. Curry staff and Campus Security staff are available to answer questions about crime prevention. Curry students are also provided with *Get Inclusive* training and Curry staff are included in *SafeColleges* training.

Contact information for Curry students is below:

Doug Bunn, Executive Dean of Curry Campus
541-813-1672, 208-610-6853 (cell)
E-mail to: [Doug Bunn](#)

Aleta Mankamyer, Assistant Director Curry Campus

541-813-1671

E-mail to: [Aleta Mankamyer](mailto:Aleta.Mankamyer)

You may also contact the Brookings Police Department at:

898 Elk Drive

Brookings, OR 97415

Business 541-469-3118

Monitoring and Recording Criminal Activity at Off-Campus Locations

Campus Security officers do not patrol off campus residences or off campus activities. As stated above, Campus Security maintains a close working relationship with the Coos Bay and North Bend Police departments who do patrol Coos Bay/North Bend areas. This cooperative approach addresses situations as they arise as well as future concerns.

Criminal actions and other emergencies that occur during off campus college activities (such as off-campus club activities) should be reported by the appropriate College representative to Campus Security who will forward criminal reports to the Office of Administrative Services and appropriate local law enforcement. Southwestern does not have any officially recognized student organizations with noncampus locations where local police monitor or record criminal activity.

CURRY CAMPUS

Brookings Police Department regularly patrols the campus and surrounding areas of the City of Brookings both during operational hours and after hours. They can be reached at 541-469-3118. The Curry building is alarmed and monitored by Gold Coast Security who will take appropriate actions in the event of an emergency. For more detailed information, contact Doug Bunn at 541-813-1672.

Missing Student Notification in Student Housing

Southwestern Oregon Community College Student Housing takes student safety very seriously. The following procedure has been developed in order to assist in locating Southwestern Student Housing residents who, based on the facts and circumstances known to the College, are determined to be missing. During the student resident check-in process, housing students are given the option of identifying a contact person(s) for missing student notification who Southwestern will notify within 24 hours of determining that the student is missing. This is in addition to the emergency contact person students submit when registering at Southwestern. The emergency contact person and missing student notification person may be the same person. This information is verified during the resident check-in process and recorded. This information is confidential and will be accessible only to authorized campus officials. This information may not be disclosed except to law enforcement personnel in furtherance of a missing person investigation. By registering a contact person, students are in effect giving permission for law enforcement personnel to contact the identified individual for the purpose of a missing student investigation. To protect student confidentiality, the student resident's emergency contact information and missing student contact information is kept separately by Southwestern, even if the student has the same person registered as both the missing student notification and emergency contact person.

Housing residents will be determined missing if it is reported that a resident has changed their normal routine and failed to inform roommates, friends, faculty, or staff of the change. Anyone who receives a missing student report should **immediately** let Campus Security know. Do not wait 24 hours to report this. The following procedures shall be followed at **minimum** within 24 hours of College personnel being notified of the possibility of a student's absence.

To report a missing student, please contact one of the below Southwestern staff.

POSITION	NAME	CONTACT INFO	HOURS OF OPERATION
Campus Security	Officer on duty or Joe Thomas	(cell) 541-297-4200 (office) 541-888-7399	24/7
Vice President of Administrative Services	Jeff Whitey (Title IX Coordinator)	(office) 541-888-7402 (cell) 541-297-4209	M-F 8:30 a.m. –5:30 p.m.
Vice President of Enrollment and Student Services	Tim Dailey	(office) 541-888-7439 (cell) 541-404-0999	M-F 8:30 a.m. –5:30 p.m.
Any Resident Assistant in Student Housing	Changes each academic year		
Director of Residence Life	Joe Belter	(office) 541-888-7800 (cell) 503-954-5583	M-F 8:30 a.m. –5:30 p.m.

IT IS MANDATORY THAT ANYONE AWARE OF A MISSING STUDENT REPORT THIS IMMEDIATELY TO CAMPUS SECURITY AT 541-297-4200 WHO WILL REPORT THIS TO COOS BAY POLICE.

After Campus Security is notified, they will alert Housing staff and will perform the following:

- Call missing student’s cell phone and send a text message if available.
- Interview roommates, apartment mates, and known friends.
- Look at social networking sites such as Facebook for any activity.
- Check with Dining Services to see when the last time the resident’s ID was scanned.
- Check the Housing door access database (WIN-PAC) to see if resident used an ID to enter a building.
- Check with faculty members to see when the resident last attended class or when they last had contact with the missing student.
- Attempt to locate resident’s vehicle on campus if it is determined the resident has a vehicle.
- Campus Security will contact Coos Bay Police Department within 24 hours of the student being confirmed missing, unless Coos Bay Police was the entity that made the determination that the student is missing. Campus Security will notify Coos Bay Police regardless of whether a student has identified a contact person, is above the age of 18, or is an emancipated minor.

If, after an investigation by Campus Security and other appropriate Southwestern staff, the resident is determined to be missing, a staff member will contact the student’s parent (if missing student is under 18) or the student’s designated missing student contact person within 24 hours. Law enforcement will be called to report the person as missing. A description with any other information will be provided to the law enforcement agency. Campus Security will also coordinate its efforts with the Coos Bay Police Department in full compliance with legal obligations and established police procedures. Campus Security will continue its investigative procedures in collaboration with staff. An e-mail alert will be sent to appropriate faculty and staff seeking any information or knowledge of the missing resident.

STUDENTS UNDER 18

If a missing student is under 18 years of age and not emancipated, Southwestern must notify a custodial parent or guardian within 24 hours of the determination that the student is missing, in addition to notifying any additional confidential contact person designated by the student. Southwestern will also at minimum notify Coos Bay Police within 24 hours of the determination that the student is missing.

CURRY CAMPUS

There are no Missing Student procedures for the Curry Campus, as there are no Residential Halls on that campus.

Emergency Notification

The Southwestern Emergency Notification System—RAVE—is used to transmit brief, urgent messages to segments of or to the entire Southwestern population immediately after confirmation is made that a legitimate significant emergency or dangerous situation exists that poses an immediate threat to students and/or staff. This includes Clery Act crimes **and** other crimes. The Curry Campus staff and students also receive RAVE notifications for emergencies on the Brookings campus. Confirmation of a significant emergency will typically be done by Campus Security or Facility Services through contact with local law authorities, interviews with witnesses, etc. The use of this system during a declared campus state of emergency must be authorized by Southwestern’s Vice President of Administrative Services, the President, or designee. RAVE contact data for students and staff is updated daily with an automated process. To sign up for RAVE, login to LakerLink, go to either Student Home or Employee Home, and then click on “Manage Your RAVE Account” (for employees) or “RAVE For Emergency Contact”(for students) and enter contact information. Southwestern also has an emergency siren on campus that may be used in certain emergencies to notify staff and students to evacuate or check for instructions on what to do by accessing RAVE on nearby phones, computers, cell phones, or nearby staff and students. The College also uses Alertus Desktop™ Notification for staff which displays an emergency message on staff computer desktops.

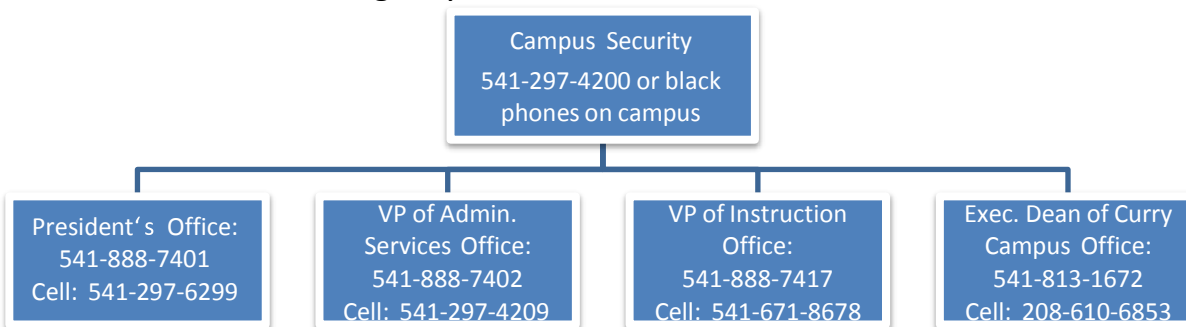
Mechanisms for sending out emergency notifications are web-based and phone-based. Southwestern users can immediately evacuate if required after notification by email, text, landline phone, or cell phone. The Emergency Notification System is based on requests only from authorized personnel. It is tested on at least an annual basis during the academic year and documented during annual all-campus evacuation drills. The Emergency Management Team receives feedback from staff after these drills via a follow up survey to improve the effectiveness/timeliness of emergency evacuation drills. Emergency notifications may include but are not limited to:

- Bomb threats or other imminent violent threats
- Gas leaks and hazardous waste or chemical spills affecting the entire campus
- Building evacuations and lock downs affecting the entire campus
- Biological or pandemic emergency notifications
- Natural disasters such as earthquake
- Campus closure due to declared civil emergency or rioting
- Approaching tsunami, hurricane or other extreme weather conditions
- Earthquake
- Terrorist incident
- Armed intruder
- Explosion

Messages conveyed through RAVE will include specific information regarding evacuation, building lock downs, and other pertinent information directly related to student and staff safety. If necessary, messages will be updated periodically with as much information as possible to assist in keeping students and staff safe. To report an emergency, call 911. After doing that, please contact Campus Security (541-297-4200) to provide any information you may have about an emergency. Emergency closures due to weather related or other emergency closures are also recorded on 541-888-1503.

Below is the Emergency Phone List Chain of Notification for Southwestern staff, including Curry Campus:

Emergency Phone List Chain of Notification



CURRY CAMPUS

The Curry Campus is included in the above RAVE emergency alert system and Chain of Notification.

**IF YOU ARE A WITNESS TO OR INVOLVED IN AN EMERGENCY, PLEASE CALL 9-1-1, THEN CALL
CAMPUS SECURITY AT **541-297-4200****

Timely Warnings

Upon confirmation of a significant emergency or dangerous situation occurring on the campus that involves an immediate threat to the health or safety of students or employees, Southwestern will immediately notify the campus community. An “immediate” threat would include an imminent or impending threat, such as an approaching forest fire, or a fire currently raging in a campus building. When a situation arises, either on or off campus, that in the judgment of the Vice President of Administrative Services, constitutes an ongoing or continuing threat, a campus-wide “timely warning” will be issued. For instance, if an armed intruder were on campus, an Emergency Notification would be sent out to campus. If the intruder assaulted someone on campus, a Timely Warning would then be sent to update students and staff to alert them to this ongoing threat and what to do. The decision about whether or not to issue a timely warning is made on a case-by-case basis taking into consideration a number of factors, including the nature of the crime, continuing danger to the campus community, and possible risk of compromising law enforcement efforts to assist victims, etc. The warning will be issued through the College e-mail, voice mail, texts, and emergency notification system (RAVE) to students and staff, as is deemed appropriate, excluding victim names and other personally identifying information to ensure confidentiality. The intent of the warning is to enable people to protect themselves. Coos Bay Police works closely with Southwestern in keeping Southwestern Campus Security and Administration apprised of potential threats that would require timely warnings.

Depending on the particular circumstances of the crime, especially in all situations that could pose an immediate threat to the community and individuals, Campus Security and other staff may post hard copy notices in residence halls, campus classrooms, or other building doors on campus.

Timely warnings may include the following information:

- Information about the crime that triggered the warning
- Date, time and location of the crime
- Suspect information and description (if applicable and available)
- Who to contact at Southwestern to report additional information about the crime

When notified of a potential threat, the Vice President of Administrative Services or their designee will confirm with Campus Security and/or Facilities the facts surrounding the threat. Campus Security will confirm the threat with Coos Bay Police (or Brookings Police for the Curry Campus) to confirm there is a significant emergency or

dangerous situation. Depending on the situation, not all parts of campus may be notified. For example, if a fire were reported in a Culinary kitchen, only the Culinary building would be evacuated and only Culinary students and staff would receive a notification.

Anyone with information warranting a timely warning should report the circumstances to Campus Security at 541-297-4200 or in person to a Campus Security Officer. Campus Security will then contact Administrative Services who will send a timely warning to the campus if deemed necessary.

Following a campus emergency, Southwestern will provide follow up information to campus via email sent either by the Vice President of Administrative Services (or their designee) or the President.

CURRY CAMPUS

The Curry Campus is included in the above timely warning notification policy. Students and community members may report issues that may necessitate a timely warning to the Curry staff below to initiate the timely warning process. Generally, the Executive Dean of Curry Campus or his/her designee will initiate a timely warning. Campus Security will confirm the threat with the Brookings Police Department for the Curry Campus to confirm there is a significant emergency or dangerous situation.

Doug Bunn, Executive Dean of Curry Campus

541-813-1672, 208-610-6853 (cell)

E-mail to: [Doug Bunn](#)

Aleta Mankamyer, Assistant Director Curry Campus

541-813-1671

E-mail to: [Aleta Mankamyer](#)

VAWA Crime Definitions

Please note that, for the purpose of *Clery Act* statistics gathering, Federal definitions are used for crime definitions. State definitions are included for community and educational awareness only.

Consent

Oregon does not specifically define “consent.” However, a person is considered incapable of consenting to a sexual act if the person is:

- Minors (statutory rape) – in Oregon that is any party under the age of 18
- Mentally disabled persons
- Physically incapacitated persons
- Individuals who as a result of alcohol or other drug consumption (voluntary or involuntary), or who is unconscious, unaware or otherwise physically helpless

A lack of verbal or physical resistance does not, by itself, constitute consent; this may be considered by the decision maker in a case such as a judge (in a criminal case) or Title IX Director (in a disciplinary hearing) along with all other relevant evidence.

Although the State of Oregon does not define “consent” in reference to sexual activity, below are guidelines to use when considering sexual activities:

- Both parties show a clear and mutual understanding of exactly what they are consenting to
- There is no coercion, force, threats, intimidation, or pressuring
- Both parties express in words or actions a clear willingness to do the same thing, at the same time, in the same way, with each other
- Silence does not equal consent
- Consent is not indefinite and consent may be withdrawn at any time. At any time sexual activity must cease unless and until additional effective consent is given.

Domestic Violence

State Definition: Abuse between family or household members. Family or household members: Spouses or former spouses; adults related by blood or marriage; persons cohabitating with each other; persons who have cohabitated with each other or who have been involved in a sexually intimate relationship; unmarried parents of a child.

Abuse: The occurrence of one or more of the following acts within a domestic relationship: (a) attempting to cause or intentionally, knowingly or recklessly causing bodily injury. (b) Intentionally, knowingly or recklessly placing another in fear of imminent bodily injury. (c) Causing another to engage in involuntary sexual relations by force or threat of force.

Federal Definition: (1) A felony or misdemeanor crime of violence committed- (i) By a current or former spouse or intimate partner of the victim (ii) By a person with whom the victim shares a child in common (iii) By a person who is cohabitating with or has cohabitated with the victim as a spouse or a partner (iv) By a person similarly situated to a spouse of the victim under the domestic violence laws of the jurisdiction in which the crime of violence occurred, or (v) By any other person against an adult or youth victim who is protected from that person's acts under the domestic or family violence laws of the jurisdiction in which the crime of violence occurred.

Dating Violence

State Definition: There is no state of Oregon definition for Dating Violence.

Federal Definition: Violence committed by a person who is or has been in a social relationship of a romantic or intimate nature with the victim. (1) The existence of such a relationship shall be determined based on the reporting party's statement and with consideration of the length of the relationship, the type of relationship, and the frequency of interaction between the persons involved in the relationship. (2) For purposes of this definition- (i) dating violence includes, but is not limited to, sexual or physical abuse or the threat of such abuse. (ii) Dating violence does not include acts covered under the definition of domestic violence. (3) For the purposes of complying with the requirements of this section, any incident meeting this definition is considered a crime for the purposes of Clery Act reporting.

Stalking

State Definition: (1) A person commits the crime of stalking if: (a) The person knowingly alarms or coerces another person or a member of that persons immediate family or household by engaging in repeated and unwanted contact with the other person; (b) It is objectively reasonable for a person in the victims situation to have been alarmed or

coerced by the contact; and (c) The repeated and unwanted contact causes the victim reasonable apprehension regarding the personal safety of the victim or a member of the victims immediate family or household.

Federal Definition: (1) Engaging in a course of conduct directed at a specific person that would cause a reasonable person to- (i) Fear for the person's safety or the safety of others; or (ii) Suffer substantial emotional distress (2) For the purposes of this definition- (i) Course of conduct means two or more acts, including, but not limited to, acts in which the stalker directly, indirectly, or through third parties, by any action, method, device or means, follows, monitors, observes, surveils, threatens, or communicates to or about, a person, or interferes with a person's property. (ii) Substantial emotional distress means significant mental suffering or anguish that may, but does not necessarily, require medical or other professional treatment or counseling. (iii) Reasonable person means a reasonable person under similar circumstances and with similar identities to the victim.

Sexual Assault

Any sexual act directed against another person, without consent of the victim, including instances where the victim is incapable of giving consent.

Rape: The penetration, no matter how slight, of the vagina or anus with any body part or object, or oral penetration by a sex organ of another person, without the consent of the complainant.

Fondling: The touching of the private body parts of another person for the purpose of sexual gratification, without the consent of the complainant, including instances where the complainant is incapable of giving consent because of his/her age or because of his/her temporary or permanent mental incapacity.

Incest: Sexual intercourse between persons who are related to each other within the degrees wherein marriage is prohibited by law.

Statutory Rape: Sexual intercourse with a person who is under the statutory age of consent. In the State of Oregon, this age is 18.

Sexual Assault, Domestic Violence, Dating Violence & Stalking Prevention and Response (VAWA Crimes)

Southwestern prohibits the crimes of sexual assault, domestic violence, dating violence and stalking as defined by the Clery Act and is committed to maintaining a campus environment of respect. To help mitigate these VAWA crimes, both on or off Southwestern's campus, Southwestern conducts mandatory training on these topics for all new incoming students and staff. As stated previously, new students are informed of sexual assault, dating violence, domestic abuse, stalking and drug and alcohol issues through *Get Inclusive*, Southwestern's online risk management module for students.

Similar information is presented to new employees using *SafeColleges*, Southwestern's online safety training module for staff. Staff training includes sexual assault, dating violence, domestic abuse, stalking and drug and alcohol issues through *SafeColleges*.

It is imperative that evidence be preserved for prosecution of criminal offenses. Information about procedures for preservation of evidence is available in [Victim Rights/Procedures](#) and from:

Campus Security	541-297-4200
Coos Bay Police Department	541-269-8911
Bay Area Hospital	541-269-8111
Coos County District Attorney	541-396-7550
The SAFE Project	541-756-7000

CURRY CAMPUS

Curry Medical Center	541-412-2000
Brookings Police Department	541-469-3118
Brookings Harbor Medical Center	541-469-7401
Curry County District Attorney	541-247-3298

Victim's Rights/Procedures for Victims to Follow for Domestic Violence, Dating Violence, Sexual Assault, or Stalking (VAWA Crimes)

Southwestern Oregon Community College is committed to providing options, support and assistance to victims/survivors of sexual assault, domestic violence, dating violence, or stalking to ensure that they can continue to participate in campus programs, activities, education, and employment. All victims/survivors of these crimes and violations, regardless of race, color, national origin, religion, creed, age, disability, sex, gender identity or expression, sexual orientation, familial status, pregnancy, predisposing genetic characteristics, military status, domestic violence victim status, or criminal conviction, have the following rights, regardless of whether the crime or violation occurs on campus, off campus, or is not reported to local law enforcement. Victims have the right to:

1. Make a report to local law enforcement and/or state police, and campus authorities with the assistance of Southwestern staff if the victim chooses;
2. Have disclosures of domestic violence, dating violence, stalking, and sexual assault treated seriously;
3. Make a decision about whether or not to disclose a crime or violation and participate in the conduct process and/or criminal justice process free from pressure from the institution;
4. Participate in a process that is fair, impartial, and provides adequate notice and a meaningful opportunity to be heard;
5. Be treated with dignity and to receive from the institution courteous, fair, and respectful health care and counseling services, where available;
6. Be free from any suggestion that the reporting individual is at fault when these crimes and violations are committed, or should have acted in a different manner to avoid such crimes or violations;
7. Describe the incident to as few institutional representatives as practicable and not to be required to unnecessarily repeat a description of the incident;
8. Be free from retaliation by the institution, the accused and/or the respondent, and/or their friends, family and acquaintances within the jurisdiction of the institution;
9. Access to at least one level of appeal of a determination;
10. Be accompanied by an advisor of their choice who may assist and advise a reporting individual, accused, or respondent throughout the conduct process including during all meetings and hearings related to such process;
11. Exercise civil rights and practice of religion without interference by the investigative, criminal justice, or judicial or conduct process of the College.

All victims of Violence Against Women ("VAWA") crimes - whether students or staff, no matter where the crime occurs (on or off campus), and regardless of whether the crime is reported to law enforcement or not - will be provided with this [Victim Rights/Procedures](#) as their written rights and options after an incident.

Written notification for staff and students shall include:

- existing counseling, health-medical attention, mental health, victim advocacy, legal assistance, visa and immigration assistance, student financial aid, and other services available for victims, both within the institution and in the community
- options for, available assistance in, and how to request changes to academic, living, transportation, and working situations or protective measures. Accommodations or protective measures are provided if the victim requests them and if they are reasonably available, regardless of whether the victim chooses to report the crime to Campus Security or local law enforcement. Any accommodations or protective measures provided to the victim shall remain confidential.
- an explanation of procedures for college disciplinary action in the case of alleged VAWA crimes
- assistance in notifying law enforcement of the crime if the victim so chooses
- the choice to decline to notify law enforcement of the crime if the victim so chooses

PROCEDURES FOR VICTIMS TO FOLLOW IN THE CASE OF ALLEGED DATING VIOLENCE, DOMESTIC VIOLENCE, SEXUAL ASSAULT OR STALKING (VAWA CRIMES)

Get to a place of safety. Once you are there, please call one of the Southwestern staff listed in Table 1, local area law enforcement such as Coos Bay Police Department (911) or Brookings Police Department (911), or the Professional Counselor located in the Newmark Center (please see [Voluntary Confidential Reporting](#)). After being the victim of a crime, you need to reach out for support. Southwestern staff and local area law enforcement and other services are here to help you.

Southwestern Campus Security Authorities (CSAs) – Table 1

POSITION	NAME	CONTACT INFO	Hours of Operation
Campus Security	Any officer on duty or Campus Security	(cell) 541-297-4200 (office) 541-888-7399	24/7
Vice President of Administrative Services	Jeff Whitey Title IX Coordinator	(office) 541-888-7402 (cell) 541-297-4209	M-F 8:30 a.m. –5:30 p.m.
Vice President of Enrollment and Student Services	Tim Dailey	(office) 541-888-7439 (cell) 541-404-0999	M-F 8:30 a.m. –5:30 p.m.
Dean of Student Success and Transfer	Jared Gardner	(office) 541-888-7413	M-F 8:30 a.m. – 5:30 p.m.
Executive Dean of Curry Campus	Doug Bunn	(office) 541-813-1672 (cell) 208-610-6853	M-F 8:30 a.m. –5:30 p.m.
Chief Human Resources Officer (Southwestern Staff Victims)	Rachele Lyon	(office) 541-888-7259 (cell) 541-297-0123	M-F 8:30 a.m. –5:30 p.m.
Coordinator of Student Life and Events	Kyle Croy	(office) 541-888-7316 (cell) 541-441-8051	M-F 8:30 a.m. –5:30 p.m.
Director of Residence Life	Joe Belter	(office) 541-888-7800 (cell) 503-954-5583	M-F 8:30 a.m.-5:30 p.m.
Athletic Director	Mike Herbert	(office) 541-888-7208 (cell) 541-888-404-2815	M-F 8:30 a.m.-5:30 p.m.
Women’s Volleyball Coach Assistant Coach	Stephanie Willett McKenna Reasor	(office) 541-888-1650	Hours vary
Women’s Wrestling Coach	Josh White	(office) 541-888-1632	Hours vary
Men’s Wrestling Coach	Adam Whitlatch	(office) 541-888-7228	Hours vary
Track and Field Coach	Jason Cash	(office) 541-888-7334	Hours vary
Swimming Coach	Sandra Bullock	(office) 541-888-1651	Hours vary
Softball Coach	Megan Corriea	(office) 541-888-7207	Hours vary
Women’s Soccer Coach Assistant Coach	Gina Ramirez Nicole Athey	(office) 541-888-7711	Hours vary
Men’s Soccer Coach Assistant Coach	Brad Williams Andrew Becerra	(office) 541-888-7801	Hours vary
Golf Coach	Ray Fabien	(office) 541-888-7347	Hours vary
Cross Country Coach	Anthony Collins	(office) 541-888-7994	Hours vary
Women’s Basketball Coach Assistant Coach	Jeff Johnson Brittany Redmond	(office) 541-888-7705	Hours vary
eSports Coach	Tasha Livingstone	(office) 541-888-7284	Hours vary
Men’s Basketball Coach	Trevor Hoppe Riley Grandinetti	(office) 541-888-7279	Hours vary

- Any of the staff listed in Table 1 will assist a victim in notifying law enforcement if the victim chooses. It is up to the victim whether or not to file a police report (unless the victim is under age 18), whether or not to file charges, or whether or not to pursue a disciplinary/conduct process.
- Evidence preservation - After an incident of sexual assault, domestic violence, or dating violence, the victim should consider seeking medical attention as soon as possible. You may obtain a forensic examination from Bay Area Hospital (541-269-8111) which is located at 1775 Thompson Road, Coos Bay, Oregon. In Curry County, the Curry Medical Center is located at 500 5th Street, Brookings, Oregon and can perform an examination (541-412-2000). If possible, bring clothing with you to an exam. Having an examination does not require you to file a police report, but having a forensic examination will help preserve evidence in case you decide to file a police report at a later date or that may be helpful in obtaining a protection order. In Oregon, evidence may be collected even if victims choose not to make a report to law enforcement.
- It is important that a victim of sexual assault not bathe, douche, smoke, change clothing, or clean the bed/linen/area where they were assaulted if the offense occurred within the past 96 hours. This is to ensure that evidence may be preserved which may assist in proving that the criminal offense occurred. If victims do not choose to have forensic evidence collection, health care providers can still treat injuries and take steps to address concerns of pregnancy and/or sexually transmitted disease.
- Victims of VAWA crimes are encouraged to preserve evidence by saving text messages, instant messages, social networking pages, other communications, and keeping pictures, logs or other copies of documents, if they have any, that would be useful in a disciplinary hearing or police investigation.
- Southwestern staff will ensure that a victim of sexual assault is offered the necessary medical treatment and tests, and provide the opportunity for collection of evidence helpful in prosecution, which cannot be obtained later. If you choose to file a police report, a detective will be sent to your location or the hospital to interview you and create a police report.
- For student victims, Southwestern has a policy of removing sanctions relating to the student code of conduct which will allow victims to voluntarily report crimes to campus officials.
- If a victim contacts Southwestern staff listed in Table 1, they will be guided through the below process:
 - Staff on the scene, including Campus Security or other staff listed in Table 1, will offer the victim a variety of services whether or not the victim chooses to file a report with local law enforcement. Staff will guide the victim through the available options and support the victim in his or her decision.
 - Southwestern staff will ensure victims have access to confidential counseling from counselors specifically trained in the area of sexual assault crisis intervention, including a Privileged Advocate.
 - Victims can be guided in how to obtain student financial aid, academic, living, transportation, working situations and assistance in notifying appropriate local law enforcement.
 - If reasonably available, a victim may be offered changes to academic, living, or working situations in addition to counseling, health services and visa and immigration assistance

Crimes will be investigated by the Vice President of Enrollment and Student Services (student incidents) or the Chief Human Resources Officer (staff incidents) as required under Title IX.

In Oregon, a victim of domestic violence, dating violence, sexual assault, or stalking has rights under state law. These rights include financial assistance for a variety of things such as counseling, medical expenses, loss of earnings, and more. For more information on victims' rights in the State of Oregon, visit <http://www.doj.state.or.us/victims/pages/index.aspx>

SERVICES/ACCOMMODATIONS AVAILABLE FOR VICTIMS

Below is a list of resources where students or staff may obtain assistance for counseling, medical health, mental health, victim advocacy, legal assistance, or visa and immigration assistance. Options and resources for changes to academic, living, transportation, working situations, or protective measures are also listed. These resources and

accommodations are available to staff and students regardless of where the crime occurs or whether the victim chooses to report the crime to law enforcement. These services may be accessed by victims directly by contacting the resources listed or contacting one of the staff in [Table 1](#) or a Professional Counselor for assistance.

The College is obligated to change a student victim’s academic and living situation (if living in Student Housing) after an alleged offense, if requested by the victim and the changes are reasonably available, regardless of whether the victim chooses to report the crime to Campus Security or local law enforcement. Options may also include enrollment in a different section of a class, withdrawal without penalty, special parking arrangements, allowing a student to complete assignments at home, change of campus employment, Campus Security escort, or other reasonable accommodations. Specific options and who to contact for assistance are listed below. The Vice President of Enrollment and Student Services and/or their designee is responsible for making decisions regarding reasonable accommodations. The Vice President of Enrollment and Student Services will consider many factors when deciding what reasonable options may be afforded a victim including:

- the specific need expressed by the victim
 - the age of the students involved
 - the severity or pervasiveness of the allegations
 - any continuing effects on the victim
 - whether the victim and accused share the same residence hall, dining hall, class, transportation or job location
 - whether other judicial measures have been taken to protect the victim such as civil protection orders
- Any accommodations or protective measures provided to the victim are maintained as confidential.
 - Curry County victims may also contact staff in [Table 1](#) for assistance in accommodations.

Below is a chart of resources for victims to access. Items highlighted in **BLUE** are generally for Coos Bay staff/student victims. Items highlighted in **GREEN** are generally for Curry staff/student victims. Items highlighted in **YELLOW** are for all staff/student victims.

Resource Name	Resource Contact Information	Type of Service Offered	Hours of Operation
Bay Area Hospital	541-269-8111	Initial exam/medical follow up	24/7
Coos Bay Police Department	541-269-8911	No contact order/restraining orders, etc. Initial reporting/restraining orders	24/7
Coos County District Attorney Crime Victim’s Unit	541-396-7545	Legal assistance	Mon, Tues, Thurs 8:00 a.m.-10:00 a.m. 1:00 p.m.-4:00 p.m. Wed & Friday 8:00 a.m.-10:00 a.m. 1:00 p.m.-3:00 p.m.
Coos County Health Department	541-756-2020, ext. 510	Medical follow up	8:00 a.m. – 5:00 p.m.
The SAFE Project	541-756-7000	<ul style="list-style-type: none"> ▪ Confidential reporting ▪ Counseling ▪ Protection orders ▪ Victim advocacy ▪ Arrange shelter ▪ Transportation ▪ Safety planning 	Mon-Fri 8:00 a.m.- 4:00 p.m. 24 hour hotline
Campus Security	541-297-4200	<ul style="list-style-type: none"> ▪ Campus escort ▪ No Contact Orders ▪ Safety Plan 	24/7

Resource Name	Resource Contact Information	Type of Service Offered	Hours of Operation
Curry Medical Center	541-412-2000	Initial exam/medical follow up	8:00 a.m. – 8:00 p.m.
Brookings Police Department	541-469-3118	Initial reporting	24/7
Brookings Harbor Medical Center	541-469-7401	Initial exam/medical follow up	8:00 a.m. – 5:00 p.m.
Curry County District Attorney	541-247-3298	Legal assistance	9:00 a.m. – 5:00 p.m.
Curry County Victims' Assistance Program	541-247-3298 http://www.co.curry.or.us/departments/juvenile/victim_assistance.php	<ul style="list-style-type: none"> ▪ No contact order ▪ Accompaniment to court proceedings by an advocate ▪ Crisis intervention by trained advocates ▪ Confidential Reporting ▪ Assist in filing for Crime Victim Compensation ▪ Assisting with emergency shelter for victims of domestic and family violence 	
OASIS	Crisis line: 541-247-7600 Toll free: 800-447-1167	<ul style="list-style-type: none"> ▪ 24-hour crisis and support hotline ▪ Emergency shelter ▪ Transitional housing ▪ Support groups ▪ Legal advocacy 	24/7
Curry County Sheriff's Office	541-247-3242	Initial reporting	24/7
Crime Victim's Compensation	503-378-5348 https://www.doj.state.or.us/crime-victims/victims-resources/victims-services/compensation-for-victims-of-crime/	Benefits for victims and their families include: <ul style="list-style-type: none"> • Mental health counseling expenses • Medical and hospital expenses • Loss of earnings • Counseling expenses for children who witness domestic violence 	
Address Confidentiality Program	888-559-9090 https://www.doj.state.or.us/crime-victims/victims-resources/victims-services/address-confidentiality-program-acp/	Free mail forwarding service to help shield physical address of victim.	

Resource Name	Resource Contact Information	Type of Service Offered	Hours of Operation
Chief Human Resources Officer (for Staff Victims from any area—Coos Bay or Curry)	541-888-7259	<ul style="list-style-type: none"> ▪ Initial reporting ▪ Work accommodations ▪ Changes in work situations for staff or student employees if reasonably available ▪ No contact orders 	8:00 a.m. – 5:00 p.m.
Campus Security	541-297-4200	Initial reporting/guidance through process	24/7
Vice President of Enrollment and Student Services	541-888-7439	<ul style="list-style-type: none"> ▪ Changing a student's living situation if requested by the victim and changes are reasonably available (in Student Housing) ▪ Student enrollment in a different section of class ▪ Withdrawal without penalty ▪ No contact orders ▪ Academic , campus employment, financial aid accommodation 	8:00 a.m. – 5:00 p.m.
Employee Assistance Program (for staff victims)	866-750-1327	Counseling/mental health	24/7
Immigration Office (USCIS)	800-375-5283	Visa/Immigration assistance	
National Domestic Violence Hotline	800-799-7233 800-787-3224 (TTY)	<ul style="list-style-type: none"> ▪ Confidential reporting ▪ Assistance with domestic abuse 	24/7
Sexual Assault Victims' Emergency Medical Response (SAVE) Fund	503-378-5348, or	Financial assistance for Medical exam, counseling	
National Sexual Assault Hotline	800-656-4673	<ul style="list-style-type: none"> ▪ Confidential support ▪ Support finding a local health facility that is trained to care for survivors of sexual assault and offers services like sexual assault forensic exams ▪ Someone to help you talk through what happened ▪ Referrals for long term support in your area ▪ Information about the laws in your community ▪ Basic information about medical concerns 	24/7

Resource Name	Resource Contact Information	Type of Service Offered	Hours of Operation
Southwestern Student Financial Aid	541-888-1583	Financial aid assistance	8:00 a.m. – 5:00 p.m.
Crime Victims Assistance Network	http://oregonvictims.org/ P.O. Box 43 Salem, OR 97308 503-434-7510	<ul style="list-style-type: none"> ▪ Victim rights ▪ Victim notification 	
National Teen Dating Abuse Helpline	866-331-9474 866-331-8453 (TTY)	24-hour national web-based and telephone helpline created to help teens (ages 13-18) experiencing dating abuse	24/7
Rape, Abuse, and Incest National Network (RAINN)	https://www.rainn.org/ 1-800-656.4673	Carries out programs to prevent sexual violence, help survivors, and ensure that perpetrators are brought to justice.	24/7
Department of Justice National Center for Victims of Crime	https://www.justice.gov/ovw/sexual-assault 1-855-4-VICTIM (1-855-484-2846)		
Department of Education, Office of Civil Rights	http://www2.ed.gov/about/offices/list/ocr/index.html		
Victim Information and Notification Everyday (VINE)	https://www.doj.state.or.us/crim-e-victims/victims-resources/other-resources/vine-victim-notification-about-offenders 1-877-or-4-VINE	<p>Services include:</p> <ul style="list-style-type: none"> ▪ ask for the current status of an offender. ▪ register to receive immediate notification if an offender is released, transferred, escapes or dies. ▪ ask about any other important probation and parole information 	24/7

PROTECTIVE ORDERS

Southwestern complies with Oregon law in recognizing orders of protection/restraining orders. Students with orders should provide a copy to the Campus Security Department and the Office of the Title IX Coordinator. Staff with orders should provide a copy to Human Resources. Employees may be eligible to take advantage of intermittent or continuous leave in order to secure restraining orders, attend court, or the like.

Southwestern may issue a college “No Contact Order” directive, if deemed appropriate, or at the request of the victim or accused. Southwestern will work cooperatively to ensure that the victim’s health, physical safety, work and academic status are protected. To apply for a protective order in Coos County, go to:

North Bend Annex
1975 McPherson Avenue
North Bend, Oregon
M-F 8:00 a.m. – 5:00 p.m.

For Curry staff and students, go to the Circuit Court at:

29821 Ellensburg Ave, Gold Beach, OR 97444
8 am – 5 pm open, closed from 12 pm – 1 pm Mon-Fri
Thursdays closed from 12pm - 1:30pm

For more detailed information and a full list of resources for protective orders, please see the [chart of resources](#).

VOLUNTARY CONFIDENTIAL REPORTING

- Southwestern does not have any procedures to report crimes on a voluntary, confidential basis for inclusion in the annual disclosure of crime statistics.
- Southwestern has two “Professional Counselors” on staff in Stensland Hall and one Privileged Advocate through a VOCA grant that victims may access at the Newmark Center. A professional counselor is defined as one whose only role is to provide mental health counseling. Professional counselors are able to exercise “privileged communication.” “Privileged communication” consists of interaction between two parties (e.g., doctor and patient) in which the law recognizes a private, protected relationship. Whatever is communicated between these parties remains confidential, and the law cannot force disclosure of these communications
- It is up to the victim to determine whether or not a crime will be reported to the school or law enforcement. Given that, information sharing is kept on a need to know basis including any information about a victim’s personally identifiable information. Information sharing is limited to only staff and authorities who require this information to offer help and support to victims.
- Southwestern has designated several staff as Campus Security Authorities (CSAs) for crime reporting. Campus Security Authorities are staff who have been identified as individuals to which students and employees should report criminal offenses, and includes all Campus Security Officers. When reporting crime information to a Campus Security Authority (CSA) at Southwestern (see [Table 1](#)), victims have several options including the option to notify law enforcement authorities about the offense, the option to be assisted by CSAs in notifying law enforcement if the crime statistics/incident reported to the Director of Campus Security for Clery statistical reporting purposes; however, **personally identifiable information of the victim is excluded**. Information conveyed includes the type of crime, number of crimes reported, date/time of the crime and the general area where the crime occurred (e.g., Student Housing, On Campus, Public Property, etc.)
- Victims may inform campus authorities that they do not wish to file a police report or have a formal police investigation completed; however, the law mandates that if the victim is a minor, Southwestern staff must report this to the Department of Human Services or local law enforcement.
- Southwestern will keep confidential any accommodations or protective measures provided to victims, to the extent that maintaining such confidentiality would not impair the ability of the College to provide the accommodations, protective measures, and to remain in compliance with Federal Title IX regulations. Additionally, personally identifiable information about the victim will be shared only with persons with a specific need to know who are investigating/adjudicating the complaint or delivering resources or support services to the victim. For example, publicly available record-keeping for purposes of Clery Act reporting and disclosures will be made without inclusion of identifying information about the victim.
- Southwestern does not publish the name of crime victims or residence address of victims in the Southwestern Daily Crime Log. Victims may request that directory information on file be removed from public sources. Students should contact the Office of the Registrar (541-888-7221) and employees should contact the Office of Human Resources (541-888-7259).
- **No personally identifiable information will be included in incident statistics for annual crime reporting purposes of this report, or the Southwestern Daily Crime Log.** Information that is kept confidential on an incident report includes the victim’s:

- First and last name
 - Address
 - Contact information including postal, email or Internet protocol address
 - Phone number
 - Fax number
 - Social security number
 - Driver’s license number
 - Student ID number
 - Passport number
 - Date of birth
 - Racial or ethnic background or religious affiliation
- The Title IX Director is responsible for carefully considering what and to whom victim information is given to in order to provide accommodations or protective measures in a timely manner. Before disclosing this information, the Title IX Director will inform the victim which information they want to share, with whom, and why. This decision will always be made with the victim’s safety and confidentiality given the highest priority.

DOMESTIC VIOLENCE, DATING VIOLENCE, STALKING, OR SEXUAL ASSAULT CRIME VICTIM INFORMATION (VAWA CRIMES)

If you are a victim of domestic violence, dating violence, stalking, or a sexual assault, your first priority should be to get to a place of safety. The Campus Security Department strongly advocates that a victim of these crimes report the incident in a timely manner. Time is a critical factor for evidence collection and preservation. Preserving evidence may assist in proving the criminal offense occurred, and may help in obtaining a protective order.

Any of the crimes listed above (“VAWA crimes”) should be reported directly to one of the following people who can assist you with what to do following an assault:

POSITION	NAME	CONTACT INFO	HOURS OF OPERATION
Campus Security	Officer on duty or Joe Thomas	(cell)541-297-4200 (office) 541-888-7399	24/7
Vice President of Administrative Services	Jeff Whitey (Title IX Coordinator)	(office) 541-888-7402 (cell) 541-297-4209	M-F 8:30 a.m. –5:30 p.m.
Vice President of Enrollment and Student Services	Tim Dailey	(office) 541-888-7439 (cell) 541-404-0999	M-F 8:30 a.m. –5:30 p.m.
Director of Residence Life	Joe Belter	(office) 541-888-7800 (cell) 503-954-5583	M-F 8:30 a.m. –5:30 p.m.
Chief Human Resources Officer (staff reporting)	Rachele Lyon	(office) 541-888-7259 (cell) 541-297-0123	M-F 8:30 a.m. –5:30 p.m.
Professional Counselor		Newmark Center, room 217	M-F 8:00 a.m. – 4:00 p.m.

To contact Campus Security, you may use one of the black emergency phones located in buildings throughout campus, which will connect you to Campus Security directly. After receiving your call, Campus Security will take the necessary action required to respond to the specific situation including assisting the victim in notifying law enforcement if the victim chooses. Victims may also call Coos Bay Police or Brookings Police by dialing 911. In the event a victim is unable to report a sexual assault, domestic violence, dating violence or stalking crime, Southwestern Security will ensure that the victim has available necessary care deemed appropriate. Southwestern security will also work with the appropriate law enforcement agency to ensure accurate and prompt reporting of the incident if the victim desires. The above Southwestern staff are trained in how to assist a victim and provide information on what to do following an assault.

Students or employees who report they have been a victim of sexual assault, domestic violence, dating violence or stalking shall be provided with a written explanation of their rights and options at the time of an incident regardless of whether the offense occurred on or off campus. They will also receive written notification of available counseling, health, mental health, victim advocacy, legal assistance, visa and immigration assistance, student financial aid and other services available—whether they are part of the on-campus Housing or live in the community. See [Victim Rights/Procedures](#).

CURRY CAMPUS

If a student or staff member at the Curry Campus is the victim of a VAWA crime, they may report it to any of the below contacts or to the Executive Dean of Curry Campus, Doug Bunn at 208-610-6853 or 541-813-1672 who will guide them through the process after an assault.

Brookings Police Department	541-469-3118
OASIS	Crisis line: 541-247-7600 or Toll free: 800-447-1167
Curry County Sheriff's Office	541-247-3242 or 800-543-8471
Curry Medical Center	541-412-2000
Brookings Harbor Medical Center	541-469-7401
Curry County District Attorney	541-247-3298

Investigatory Proceedings & Disciplinary Action for Alleged Crimes of Sexual Assault, Domestic Violence, Dating Violence & Stalking (VAWA Crimes)

STUDENTS

Southwestern's investigative process in cases of alleged domestic violence, dating violence, sexual assault or stalking shall be prompt and fair, with an impartial investigation and resolution. Investigations will be completed within reasonably prompt timeframes that allow for extension of timeframes for good cause. Whether or not criminal charges are filed, a student or employee may file a complaint alleging that a student or employee violated the Student Code of Conduct or Southwestern's employee policy on discrimination, harassment, retaliation, or any other applicable college policy. Reports of all VAWA crimes made to the Vice President of Enrollment and Student Services or other staff listed in [Table 1](#) will automatically be referred to the Title IX Coordinator for investigation regardless of if the victim chooses to pursue criminal charges.

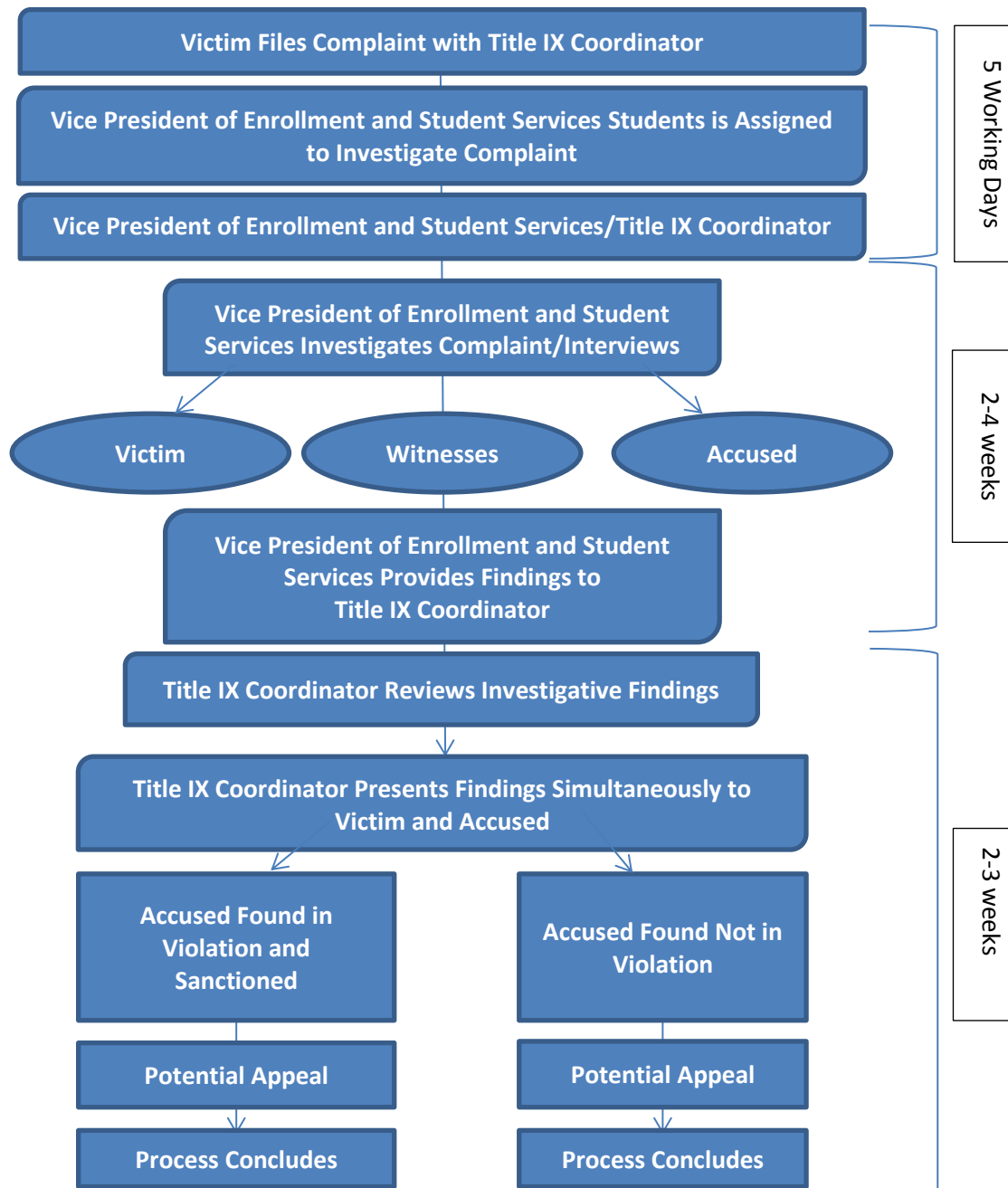
To file a complaint, contact the Title IX Coordinator in person (541-888-7402) or complete an [Incident Report](#) which will be routed to the Title IX Coordinator. The Title IX Coordinator will contact the Vice President of Enrollment and Student Services to begin an investigation. The Vice President of Enrollment and Student Services takes into account the severity of the incident, and any related circumstances and facts. The victim's safety is of the highest priority when conducting a hearing and making decisions about sanctions and protective measures. Investigations shall be conducted by the Vice President of Enrollment and Student Services in conjunction with the Title IX Coordinator who both receive annual training on issues related to these crimes, including:

- how to conduct an investigation
- how to conduct a hearing process that protects the safety of victims and promotes accountability
- relevant evidence and how it should be used during a proceeding
- proper techniques for questioning witnesses
- basic procedural rules for conducting a proceeding
- avoiding actual and perceived conflicts of interest

In 2018, the Title IX Coordinator, Vice President of Enrollment and Student Services and Director of Campus Security each attended 20 hours of training on the above topics.

The Title IX Coordinator will decide results of complaints. Upon notification of alleged VAWA crimes from students, the following will occur in accordance with Title IX requirements. Below is a diagram and explanation of the complaint/disciplinary process at Southwestern.

COMPLAINT/INVESTIGATION/DISCIPLINARY PROCESS - STUDENTS



1. Victim files complaint with Title IX Coordinator by either calling 541-888-7402, or completing an [Incident Report](#).
2. After reviewing the complaint, the Title IX Coordinator in conjunction with the Vice President of Enrollment and Student Services may take immediate action to ensure a victim is able to continue their education. They may issue a No Contact Directive, change of academic schedule, change of work setting, etc., to facilitate this.
3. The Vice President of Enrollment and Student Services begins an impartial investigation/fact finding through formal or informal meetings.
4. Parties are notified by Vice President of Enrollment and Student Services for interviews as appropriate.
5. Vice President of Enrollment and Student Services and Title IX Coordinator review findings.
6. The Title IX Coordinator makes determination of responsibility and appropriate outcomes.
7. The victim and the accused are simultaneously notified of the incident outcomes in writing by Title IX Coordinator.
8. Any changes to results prior to finalization will be simultaneously communicated in writing to the victim and the accused.

9. Results are finalized by the Title IX Coordinator within 60 days as mandated by Title IX. The victim and the accused will be notified of the results in writing simultaneously and of when the results become final.
10. The Title IX Coordinator shall explain to the victim and accused simultaneously how they weighted evidence and information obtained during the hearing and investigation and how this led to their decision. They will also describe the “standard of evidence” (reasonable preponderance of evidence) and how the evidence did or did not meet this standard.
11. Victim or accused may appeal outcome.

The Title IX Coordinator will conduct proceedings and shall not have a conflict of interest or bias against either the victim or accused. The standard of evidence used during conduct proceedings will be a reasonable preponderance of evidence gathered during the investigation of an incident; preponderance meaning “more likely than not.” This determination does not require a standard beyond a reasonable doubt and the technical rules of evidence applicable to civil and criminal procedures shall not apply.

The Vice President of Enrollment and Student Services may waive sanctions for violations of the Student Code of Conduct to reduce barriers for the reporting of sex offenses, domestic violence, dating violence and stalking.

The victim and the accused and appropriate officials involved in proceedings will be simultaneously notified of the following:

- Necessary delays and the reason for delays
- Meeting times
- Information that will be used during informal and formal proceedings
- Results of any institutional disciplinary proceeding that arises from an allegation of dating violence, domestic violence, sexual assault or stalking
- Any change to the results that occur prior to the finalization of results of a hearing including initial, interim and final decisions made by the Title IX Coordinator and when such results become final and the rationale for such results
- Southwestern’s procedures for the accused and the victim to appeal the result of the institutional disciplinary sanction

In cases of alleged offenses, both victim and accused are entitled to have others present during a conduct proceeding, including the opportunity to be accompanied to any related meeting or proceeding by the advisor of their choice. Both victim and accused will be simultaneously informed in writing of the outcome of any campus conduct investigation.

Southwestern will disclose to the alleged victim of a crime of violence (as that term is defined in Section 16 of Title 18, United States Code), or a non-forcible sex offense, the report on the results of any disciplinary proceeding conducted by Southwestern against a student who is the alleged perpetrator of such crime or offense. If the victim is deceased as a result of the crime or offense, the next of kin of such victim will be treated as the alleged victim.

Sexual assault allegations do not automatically go to a formal process. The Title IX Coordinator, in collaboration with the Vice President of Enrollment and Student Services, will determine whether a complaint should be investigated formally or informally. Compliance with Title IX will always be strictly adhered to when making this decision.

The College will change a victim’s academic and living situation (if living in Student Housing) after an alleged offense listed above, if requested by the victim and the changes are reasonably available, regardless of whether the victim chooses to report the crime to Campus Security or local law enforcement. Options could include enrollment in a different section of a class, withdrawal without penalty, or other reasonable accommodations.

APPEAL PROCEDURES

- The victim or the accused may appeal a decision by filing a written appeal with the Vice President of Instruction within seven (7) calendar days of the decision made by the Title IX Coordinator.

- The Vice President of Instruction shall render a decision on the appeal within seven (7) calendar days of its filing. The decision of the Vice President of Instruction shall be final and not subject to further appeal. In cases where expulsion is the recommended outcome, the Vice President of Instruction will make the final decision and no further appeals will be allowed.

SANCTIONS

Disciplinary action shall be prompt and fair, with an impartial investigation/resolution. Sanctions imposed on students for college-related criminal actions, including sexual assault, domestic violence, dating violence or stalking, may include but are not limited to:

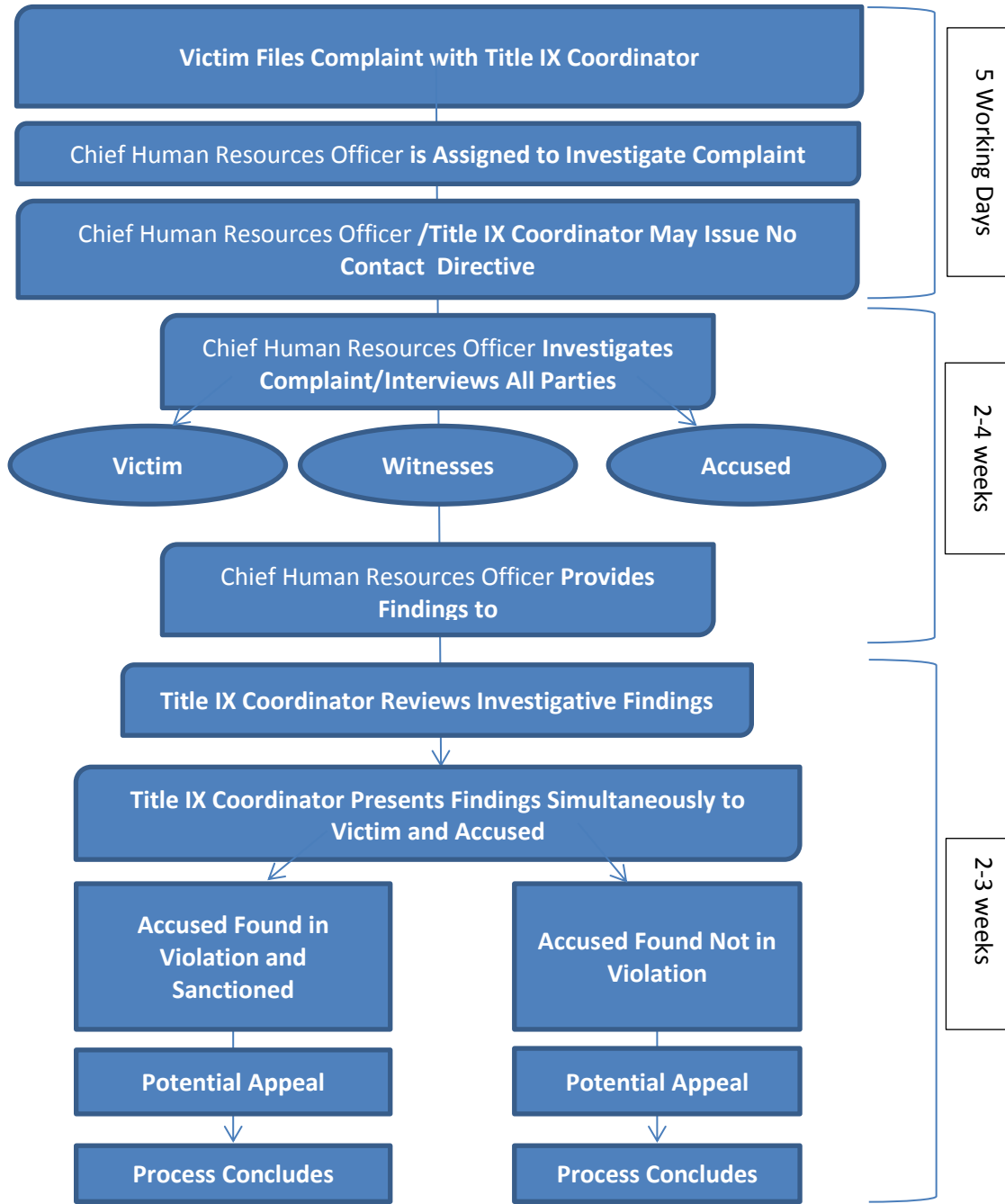
- Disciplinary - A verbal or written warning by the appropriate college administrator
- Mandatory counseling
- Judicial Educator
- Removal from sports or club activities
- Suspension from classes and/or campus facilities – Minimum one term (in addition to the term in which the violation was committed)
- No contact order
- Administrative withdrawal
- Temporary expulsion - Removal from classes or privileges, for a specified period of time
- Expulsion - Termination of student status
- Temporary or permanent trespassing from campus or specific facilities

STAFF

Procedures for Southwestern staff who are VAWA crime victims are similar to student procedures. Southwestern's investigative process in cases of alleged domestic violence, dating violence, sexual assault or stalking shall be prompt and fair, with an impartial investigation and resolution. Investigations will be completed within reasonably prompt timeframes that allow for extension of timeframes for good cause. To file a complaint, contact the Title IX Coordinator (541-888-7402) or complete an [Incident Report](#). The Title IX Coordinator will contact the Chief Human Resources Officer to begin an investigation. The Chief Human Resources Officer takes into account the severity of the incident, and any related circumstances and facts. The victim's safety is of the highest priority when conducting a hearing and making decisions about sanctions and protective measures. Investigations shall be conducted by the Chief Human Resources Officer in conjunction with the Title IX Coordinator who both receive annual training on issues listed above in the Student section.

The Chief Human Resources Officer will investigate complaints and the Title IX Coordinator will decide results of complaints. Upon notification of alleged VAWA crimes, the following will occur in accordance with Title IX requirements. Below is a diagram and explanation of the complaint/disciplinary process at Southwestern for staff:

COMPLAINT/INVESTIGATION/DISCIPLINARY PROCESS - STAFF



The Chief Human Resources Officer will follow procedures found in the below Administrative and Board policies that pertain to discipline:

- [APP 7012 Standards of Employee Conduct](#)
- [BP 7180 Workplace Violence and Bullying](#)
- [APP 7110 Disciplinary Procedures](#)
- [APP 7160 Staff Complaints and Appeals](#)

1. Victim files complaint with Title IX Coordinator by either calling 541-888-7402, or completing an [Incident Report](#).
2. After reviewing the complaint, the Title IX Coordinator in conjunction with the Chief Human Resources Officer may take immediate action to ensure a victim is able to continue their employment. They may issue a No Contact Directive, change of work schedule/setting, etc., to facilitate this.
3. The Chief Human Resources Officer begins an impartial investigation/fact finding through formal or informal meetings.

4. Parties are notified by Chief Human Resources Officer for interviews as appropriate.
5. Chief Human Resources Officer and Title IX Coordinator review findings.
6. The Title IX Coordinator makes determination of responsibility and appropriate outcomes.
7. The victim and the accused are simultaneously notified of the incident outcomes in writing by the Chief Human Resources Officer.
8. Any changes to results prior to finalization will be simultaneously communicated in writing to the victim and the accused.
9. Results are finalized by the Title IX Coordinator within 60 days as mandated by Title IX. The victim and the accused will be notified of the results in writing simultaneously and of when the results become final.
10. The Title IX Coordinator shall explain to the victim and accused simultaneously how they weighted evidence and information obtained during the hearing and investigation and how this led to their decision. They will also describe the “standard of evidence” (reasonable preponderance of evidence) and how the evidence did or did not meet this standard.
11. Victim or accused may appeal outcome.

The Title IX Coordinator will conduct proceedings and shall not have a conflict of interest or bias against either the victim or accused. The standard of evidence used during conduct proceedings will be a reasonable preponderance of evidence gathered during the investigation of an incident; preponderance meaning “more likely than not.” This determination does not require a standard beyond a reasonable doubt and the technical rules of evidence applicable to civil and criminal procedures shall not apply.

The victim, the accused and appropriate officials involved in proceedings will be simultaneously notified in writing of the following information:

- Necessary delays and the reason for delays
- Timely notice of meeting times
- Information that will be used during informal and formal proceedings
- Results of any institutional disciplinary proceeding that arises from an allegation of dating violence, domestic violence, sexual assault or stalking
- Any change to the results that occur prior to the finalization of results of a hearing including initial, interim and final decisions made by the Title IX Coordinator and when such results become final and the rationale for such results
- Southwestern’s procedures for the accused and the victim to appeal the result of the institutional disciplinary sanction

In cases of alleged offenses, both victim and accused are entitled to have others present during a conduct proceeding, including the opportunity to be accompanied to any related meeting or proceeding by the advisor of their choice. Both victim and accused will be simultaneously informed in writing of the outcome of any campus conduct investigation brought alleging any of the above offenses.

Southwestern will, upon written request, disclose to the alleged victim of a crime of violence (as that term is defined in Section 16 of Title 18, United States Code), or a non-forcible sex offense, the report on the results of any disciplinary proceeding conducted by Southwestern against a student who is the alleged perpetrator of such crime or offense. If the victim is deceased as a result of the crime or offense, the next of kin of such victim will be treated as the alleged victim for purposes of this paragraph.

Sexual assault allegations do not automatically go to a formal process. The Title IX Coordinator in collaboration with the Chief Human Resources Officer will determine whether a complaint should be investigated formally or informally. Compliance with Title IX will always be strictly adhered to when making this decision.

The College will change a victim’s work situation after an alleged offense listed above, if requested by the victim and the changes are reasonably available, regardless of whether the victim chooses to report the crime to Campus Security or local law enforcement. Options could include reduced/altered work hours or use of intermittent or continuous leave in order to secure restraining orders, attend court, etc., use of the Employee Assistance Program, or campus escort.

APPEAL PROCEDURES

- The victim or the accused may appeal a decision by filing a written appeal with the President within seven (7) calendar days of the decision made by the Title IX Coordinator.
- The President shall render a decision on the appeal within seven (7) calendar days of its filing. The decision of the President shall be final and not subject to further appeal. In cases where expulsion is the recommended outcome, the President will make the final decision and no further appeals will be allowed.

SANCTIONS

Disciplinary action shall be prompt and fair, with an impartial investigation/resolution. Sanctions imposed on staff for college-related criminal actions, including sexual assault, domestic violence, dating violence or stalking, may include but are not limited to:

- Verbal warning
- Written warning
- Suspension
- Termination
- On campus no contact order
- Temporary or permanent trespassing from campus or specific facilities

Staff have the same victim rights as student victims listed in [Victim Rights/Procedures](#) of this report. The Chief Human Resources Officer shall investigate VAWA crimes. The Title IX Coordinator will make final decisions regarding the outcome of complaints.

If requested by the victim, the College will offer reasonable accommodations such as transportation or security escorts or changes in working situations if reasonably available. Staff who obtain restraining orders that list college campuses or facilities as protected areas should provide Human Resources with a copy of the signed order. Human Resources will notify Campus Security as appropriate.

CURRY CAMPUS

The above procedures also apply to Curry Campus students and staff.

Sexual Assault, Domestic Violence, Dating Violence & Stalking Awareness Training

Southwestern offers sexual assault, domestic violence, dating violence and stalking awareness training at fall New Student Orientation. During the months of February, and at Springfest each May, these topics are also offered as a part of Southwestern's ongoing prevention and awareness programs. At the 2018 New Student Orientation, C.L. Lindsay provided "Sex and the Law" training to incoming freshman. Southwestern staff are also welcome to attend these student events. The Campus Security Department also offers sexual assault education and informative programs to Southwestern students and employees upon request. Domestic violence, dating violence and stalking are also topics that are addressed at New Student Orientation through *Get Inclusive*.

Staff at Southwestern are provided with Campus Security procedures/practices via the Southwestern website and an annual email that includes links to security information contained in this Clery report. Southwestern annually offers self-defense classes free to staff and students provided by Campus Security. Southwestern staff are also trained on sexual assault, dating violence, domestic violence and sexual violence awareness via *SafeColleges*. This training is given to staff annually and is disseminated to all new staff upon hire. Additionally, Southwestern holds an annual "Walk a Mile in Her Shoes" event that promotes campus awareness of violence against women.

The Curry Campus also has New Student Orientation where questions about student safety concerns may be answered. Curry and Campus Security staff are available to answer questions about the above topics. Domestic violence, dating violence and stalking are also addressed for new students at the Curry Campus via *Get Inclusive*. Curry staff are also trained on sexual assault, dating violence and sexual violence awareness via *SafeColleges*. This training is given to staff annually and disseminated to all new staff upon hire.

Bystander Intervention Guidelines

Bystander intervention can be used as a safe and positive option that may be carried out by an individual or individuals to prevent harm or intervene when there is a risk of dating violence, domestic violence, sexual assault or stalking.

Bystander intervention can assist in risk reduction by recognizing warning signs of abusive behavior or potential harm. If you witness potentially harmful behavior, don't be afraid to say or do something—**KEEPING IN MIND YOUR OWN SAFETY AND THE SAFETY OF THOSE AROUND YOU.**

Below are some things you can do as a bystander if you see a risk of dating violence, domestic violence, sexual assault, or stalking:

1. Notice the incident – If the situation you witness is not an immediate threat, report it to Campus Security by calling 541-297-4200.
2. If the incident is an emergency – Call 911.
3. Assume responsibility for intervening – Don't assume someone else will intervene. If you are unsure of what to do, ask another bystander what they think about the situation. If in doubt, it is always best to call Campus Security or 911.

Try one of the below strategies if you witness a potentially abusive situation:

1. **Direct** – if you know one or both of the persons involved, you may try approaching one or both of the persons. Do not do this if alcohol or drugs are involved as the person you are trying to stop may become defensive or hostile. Examples of the direct approach could include saying, "Hey, stop that!", "Please stop", "Are you OK?", or simply giving a disapproving look.
2. **Distract** – This may work when dealing with intoxicated persons. Some ideas are:
 - Make a noise complaint to Campus Security (541-297-4200)
 - Talk loudly on your cell phone close to the situation
 - Engage them in an activity such as helping you to look for your lost keys or some other item
3. **Delegate**- This works when you are unsure what to do or are unable to intervene by yourself. It works best if you do not know the people involved in the situation and you are able to find one of their friends to help intervene. For example:
 - Ask a colleague to distract one person while you distract the other
 - Call 911 or Campus Security
4. **Delay** – Stall! Here are some examples of how you might try to delay or stall a situation:
 - If you are a faculty member, ask a student to stay after class. Other staff members could ask the student to review forms or paperwork, etc.

If you are a bystander during a domestic violence, dating violence, sexual assault or stalking incident, in order to try to prevent harm or intervene during such an incident, you should immediately call 911 or Campus Security at 541-297-4200. The above are tactics to use while waiting for Campus Security or law enforcement to arrive. If you witness something that does not look or sound right, don't hesitate to call 911 or Campus Security. Even if the situation resolves before Campus Security or law enforcement arrive, it still needs to be documented. If, on the other hand the situation continues to escalate, law enforcement or Campus Security needs to be notified as soon as possible to be on their way to assist with a potentially dangerous situation.

Risk Reduction

Below are some risk reduction suggestions you can use to protect yourself from dangerous situations:

1. Avoid traveling alone at night. Use the “buddy system” – or if you have to leave a night class alone, call Campus Security for an escort (541-297-4200).
2. Report suspicious persons, vehicles and activities to Southwestern Campus Security.
3. If you are on an elevator with someone who makes you feel uneasy, get off.
4. If you are in a situation that makes you feel uncomfortable, trust your instincts and leave and go to where there are other people.
5. Always watch your drink, do not accept beverages from someone you do not know or trust.
6. Leave social events with friends, not with someone you just met.
7. Have your keys in your hand.
8. Look inside and under your car before you get in.
9. Do not hitchhike or pick-up hitchhikers.
10. Be aware of your surroundings. Don’t walk and text.

Recognizing Abusive Behavior

Domestic violence and abuse can happen to anyone. If you suffer abuse or if you suspect someone you know suffers abuse, contact Campus Security, the Director of Student Housing, the Vice President of Enrollment and Student Services, or the Chief Human Resources Officer. Below is information on recognizing abusive behavior and what to do in order to aid in risk reduction of domestic violence.

SIGNS OF AN ABUSIVE RELATIONSHIP

There are many potential signs of an abusive relationship. The most predominant sign is fear of the abuser. Below is a chart you may use to help determine if you or someone you know may be in an abusive relationship:

VICTIM’S THOUGHTS/FEELINGS/ACTIONS	PARTNER’S BEHAVIOR
Fear of partner	Humiliates/yells at you
Avoids discussing specific topics you feel may anger your partner	Criticizes/humiliates you
Feels you never do anything right with respect to your partner	Treat you so badly you’d be embarrassed for your friends or family to witness it
Believes you deserve to be hurt/mistreated	Ignores you/puts you down
Believes you may be the one who is crazy	Blames you for their abusive behavior
Feels emotionally numb/helpless	Views you as a sex object or property rather than a person
Goes along with whatever your partner says	Has a bad, unpredictable temper
Frequently misses work, school, other social activities without explanation	Acts overly jealous or possessive
Wears clothing that will hide bruises/scars (e.g., sunglasses inside, long sleeved shirt on hot days, etc.)	Tries to isolate you from friends/family
Has frequent injuries	Threatens suicide if you were to leave
Talks about partner’s temper, jealousy, possessiveness	Threatens to hurt/kill you
Seems depressed, anxious, suicidal	Controls where you go/what you do
Shows a marked change in personality (perhaps was very outgoing, but is now very withdrawn)	Limits your access to money, phone, transportation
	Constantly checks up on you
	Forces you to have sex
	Destroys your belongings
	Threatens to take your children away or hurt them

Other tactics abusers may use towards victims can include the following:

- Dominating the relationship including making all decisions, treating you like a child or his/her property
- Intimidating the victim by using threatening looks or gestures. May also include smashing/breaking things in front of victim. May show victim weapons abuser has, implying that there will be violent consequences.
- Blaming the victim or others and making the victim feel it is the victim's fault for the abuser's violent behavior. Many abusers also deny that the abuse even occurred.

Abusers are selective about whom they will abuse. Most abusers are not out of control. In fact, they are able to immediately stop their abusive behavior when it is to their advantage to do so (for example, when the police show up or their boss calls). They are also selective about physical abuse they inflict so that it is on body parts that will not show.

If you suspect that someone you know is being abused, call one of the staff below. Keep in mind that you could be saving the life of a friend or acquaintance. By speaking with one of these Southwestern staff, they will be able to offer help to victims of abuse. If you are being abused, please contact any of these staff. There is help and resources available to support you in this process.

POSITION	NAME	CONTACT INFO	HOURS OF OPERATION
Campus Security	Officer on duty or Joe Thomas	(cell) 541-297-4200 (office) 541-7399	24/7
Vice President of Enrollment and Student Services	Tim Dailey	(office) 541-888-7439 (cell) 541-404-0999	M-F 8:30 a.m. –5:30 p.m.
Director of Residence Life	Joe Belter	(office) 541-888-7800 (cell) 503-954-5583	M-F 8:30 a.m. –5:30 p.m.
Chief Human Resources Officer (staff reporting)	Rachele Lyon	(office) 541-888-7259 (cell) 541-297-0123	M-F 8:30 a.m. –5:30 p.m.

Students or staff who have orders of protection, no contact orders, restraining orders, or similar lawful orders issued by criminal, civil or a tribal court, are encouraged to notify Campus Security or Human Resources (for staff reports) who will then be better able to respond in the event of an incident.

CURRY CAMPUS

The above information applies to Curry Campus students and staff with the exception that appropriate Curry contacts include:

Brookings Police Department	541-469-3118
Curry County Victims' Assistance Program	541-247-3298
OASIS Shelter	Crisis line: 541-247-7600 Toll free: 800-447-1167
Curry County Sheriff's Office	541-247-3242

In the case of orders of protection, no contact orders, restraining orders, or similar lawful orders, students and staff are encouraged to bring the existence of these documents to the attention of:

Doug Bunn, Executive Dean of Curry Campus

541-813-1672, 208-610-6853 (cell)

E-mail to: [Doug Bunn](#)

On and Off Campus Counseling and Assistance Programs for Sexual Assault, Domestic Violence, Dating Violence & Stalking Victims

Below is a list of resources available along the South Coast for counseling, health, mental health, victim advocacy, legal assistance, and other services available for victims. This includes both on campus and community agencies available to assist victims.

Campus Security	541-297-4200
Vice President of Enrollment and Student Services	541-888-7439
Coos Bay Police Department	541-269-8911
Bay Area Hospital	541-269-8111
The SAFE Project (offers women's and men's program)	541-756-7000
Coos County District Attorney	541-396-7550
Coos County Health Department	541-756-2020, ext. 510
National Domestic Violence Hotline	1-800-799-7233 (SAFE)

CURRY CAMPUS

A list of Human Services resources that are available in Curry County are listed below:

Brookings Police Department	541-469-3118
OASIS	Crisis line: 541-447-1167
National Domestic Violence Hotline	1-800-799-7233 (SAFE)

Sex Offender Information

Under current state law, sex offender information can be obtained through the Oregon State Police through the sex offender registration information line at (503) 378-3725 extension 44429 or through the Oregon State Police website at <http://sexoffenders.oregon.gov/>. This database can access sex offender information by name, address, zip code or county.

Anyone who is required to register as a sex offender under ORS 181.592-181.607 (sexual offender registration) or has been ordered by any court, parole board or other public agency to not have contact with persons under the age of 18 must notify the Office of Administrative Services at Southwestern Oregon Community College (1988 Newmark Ave., Coos Bay OR 97420) in writing within one business day of registering for any class at the College.

Drugs and Alcohol (Board Policy 7135, Admin. Policy 7135)

The use of alcohol and illegal drugs at any Southwestern facility or event will be in compliance with all state and federal laws. This applies to all members of the College (students, faculty, staff and community members) while at the workplace. The College prohibits the unlawful manufacture, distribution, dispensation, possession or use of alcohol or illicit drugs in the workplace.

The legal age for drinking alcohol in Oregon is 21. State laws deal harshly with underage drinking. It is also against the law in Oregon to sell or give away alcohol to anyone under the age of 21. Southwestern is a dry campus except when a specific function has been authorized by Southwestern's President. Student Housing prohibits the consumption or possession of alcohol (including empty or partially full containers of alcohol), illegal substances, and drug paraphernalia.

Southwestern uses *Get Inclusive* as a component of our alcohol prevention initiative. This is a thoughtful, educational program for students committed to thinking about their life choices. To this end, we require every new incoming Southwestern student to complete the *Get Inclusive* modules.

The Southwestern Oregon Community College [Student Handbook](#) document defines the following behaviors as violations of the standards of student conduct: "The possession of alcoholic beverages or controlled substances on the College campus or any other facility that is rented, leased, owned, or occupied by the College at any time when classes or student activities are scheduled. "

Below are some facts regarding the health risks associated with alcohol and some common drugs:

Marijuana is addictive and can cause: Impaired short-term memory, visual tracking, heart rate; slowed reaction time/poor coordination; lung disease; damage to reproductive functions

Cocaine and Crack are highly addictive and may cause: Impaired judgment; short attention span; irritability, depression, mood swings; malnutrition; severe weight loss and liver damage; seizures; coma; heart attack

Amphetamine/Methamphetamine are highly addictive and may cause: Increased pulse rate & blood pressure; agitation; insomnia; increased body temperature; loss of appetite; hallucinations; depression; disorientation; convulsions; possible Death

PCP, LSD, Heroin, Mescaline and Morphine have a wide variety of negative health effects which may include: Hallucinations; mental confusion and/or permanent loss of mental function; addiction; convulsions; coma; death

Prescription Drugs are too often used to reduce stress, and are not safe unless they are taken as prescribed. If abused, they can lead to: Malnutrition; sluggishness or hyperactivity; impaired reflexes; addiction and brain damage; coma; death

Alcohol is the most commonly abused drug and can cause: Loss of concentration; poor judgment and coordination; impaired memory; drowsiness and mood swings; liver damage/cirrhosis of the liver; high blood pressure and heart attack; pancreatitis; various cancers; heart disease

On July 1, 2000, a law went into effect which affects the eligibility for federal financial aid for students convicted of possession or selling of controlled substances. The Federal Government requires that a student who has been convicted under Federal or State law of possession or sale of a controlled substance, regardless of when the conviction occurred, is ineligible for federal financial aid for a specified period. Southwestern will enforce State and Federal drug laws regarding the use, possession and sale of illegal drugs.

Suspension of Eligibility for Drug-related Offenses

A student who has been convicted of any offense under any Federal or State law involving the possession, use or sale of a controlled substance shall not be eligible to receive any grant, loan, or work assistance under this title during the period beginning on the date of such conviction and ending after the interval specified in the following table.

The possession of a controlled substance	Ineligibility period
First offense	1 year
Second offense	2 years
Third offense	Indefinite
The sale of a controlled substance	
First offense	2 years
Second Offense	Indefinite

Rehabilitation - A student whose eligibility has been suspended may resume eligibility before the end of the ineligibility period determined if:

- the student satisfactorily completes a drug rehabilitation program;
- the student successfully passes two unannounced drug tests conducted by a drug rehabilitation program; or
- the conviction is reversed, set aside, or otherwise rendered nullified.

Staff and students of Southwestern are subject to a combined drug and alcohol policy [BP 7135 Alcohol and Drug-Free Workplace](#) and [APP 7135 Alcohol and Drug Free Workplace](#). Staff receive training on drug and alcohol abuse prevention through *Safe Colleges* and students receive training through *Get Inclusive*.

Students of Southwestern are subject to various sanctions which are discussed in the [Student Code of Conduct](#). Student Housing residents are also subject to these and other sanctions listed in the Student Housing Room and Board Agreement.

Specific sanctions may include:

1. **First Offense** – Written reprimand and referral to counseling, educational assessment and/or community service.
2. **Second Offense** – Required alcohol assessment and disciplinary probation.
3. **Third Offense** – Suspension from College for a defined period of time. If a student is enrolled in certain educational programs (nursing, culinary arts, fire science, etc.) or participating in student activities such as athletics, student government, or other clubs, or living in campus student housing, **additional sanctions may apply**. Please see those policies that apply below.

Additional Sanctioning Bodies:

1. Athletic Department: please see current Redbook
2. Residence Life/Housing: please see current housing contract
3. Nursing Standards: please see current nursing handbook
4. OCCI: please see current OCCI handbook
5. Student Government (ASG): please see current bylaws
6. Federal Financial Aid Regulations pertaining to drug convictions: Eligibility regarding drug convictions - student is ineligible for financial aid if he/she has a drug conviction which is declared at the time student files the FAFSA. Ineligibility begins from date of conviction. Please note that this is a self-declaration when the student files the FAFSA.

CURRY CAMPUS

The above drug and alcohol policies apply to all Southwestern students and staff at the Curry facilities.

Drug/Alcohol Abuse Education Programs

The College has developed a program to prevent the illicit use of drugs and the abuse of alcohol by students and employees. The program provides services related to drug use and abuse, including dissemination of informational materials, educational programs, counseling services, referrals, and College disciplinary actions.

Programs for students include:

- Fall student orientation includes alcohol and drug education presentations.
- Information about the health risks associated with the use of illegal drugs and the abuse of alcohol.
- A description of local, state and federal laws and sanctions.
- Student first offenders for alcohol are offered a diversion program through the College conduct process.
- Incoming freshmen complete the *Get Inclusive* online orientation which includes drug and alcohol education.
- *Judicial Educator* on line modules are administered for student sanctions and education.
- Weekly Alcoholics Anonymous meetings are held on campus.
- First time offender students are referred to the alcohol and drug diversion course *Choices for Life* program.

Programs for staff include:

- Assistance programs – The Employee Assistance Program is available to staff for drug/alcohol services through the Human Resources Department (541-888-7259).
- Staff should refer to Board Policy [BP7135 Alcohol and Drug Free Workplace](#) and [APP 7135 Alcohol and Drug Free Workplace](#)
- Weekly Alcoholics Anonymous meetings are held on campus.
- Staff are given drug and alcohol information via *Safe Colleges*.

The College recognizes that alcohol and drug abuse is a disease that requires treatment and assistance to combat. Insurance benefits available to employees may cover the cost of treatment programs. Students with abuse problems are encouraged to visit the Counseling Center in Stensland Hall. Counselors can provide preliminary assessment and can refer students to community agencies. Information about these agencies is posted on College bulletin boards, and is available from the Counseling Center in Stensland Hall.

Listed below are resources for drug and alcohol assistance programs for students and staff:

Information and Education	
Coos County Public Health	541-756-2020 Ext. 548
Substance Abuse and Mental Health Services (SHAMA)	541-396-7575, ext.7576
Private - for profit	
ADAPT	541-751-0357
Coastal Center (Youth)	541-267-2113
Serenity Lane (Adult)	541-267-5081
Support Groups	
Alcoholics Anonymous, Answering Service	541-269-3265
Al-Anon/Alateen, call Helpline for referral	541-266-4269
Federal referral treatment routing service/SAMHSA	1-800-662-4357
Narcotics Anonymous	541-267-0273
South Coast Alano Club	541-751-9726

CURRY CAMPUS

Listed below are resources for drug and alcohol assistance programs in Curry County:

- A counselor from Stensland Hall of the Coos Bay campus visits the Curry campus one day a month and is available for follow up phone appointment to Curry students.
- Curry County Human Services 541-247-4082
- Brookings Alcoholics Anonymous hot line 541-469-2440
- Curry students and staff also receive drug and alcohol training via *Get Inclusive* and *SafeColleges*, respectively.

Emergency Evacuation and Response

SOUTHWESTERN EMERGENCY MANAGEMENT TEAM (EMT)

Southwestern Oregon Community College is committed to supporting the welfare of its students, faculty, staff, and visitors. The Emergency Response Plan is modeled after National Incident Management System guidelines and supports the Incident Command System model for emergency management. See Appendix A for the College's Emergency Response Plan.

The Emergency Response Plan is administered by the Emergency Management Team (EMT) and is designed to maximize human survival and preservation of property, minimize danger, restore normal operations of the College, and assure responsive communications with the community, surrounding neighborhoods and the cities of Coos Bay/North Bend. The plan is set in operation whenever a natural or induced emergency affecting the College reaches proportions that cannot be handled by established measures. This plan is intended to be sufficiently flexible to accommodate contingencies of all types, magnitudes, and duration. The intent is for the plan to be viewed as a tool to establish structure for managing the emergency. Members of the Emergency Management Team are:

POSITION	NAME	CONTACT INFO
Director Campus Security	Joe Thomas	541-297-4200
Vice President of Administrative Services	Jeff Whitey	541-888-7402
Director of Facilities Services	Emerald Brunett	541-888-7229
Director of Integrated Technology Services/CIO	Carl Gerisch	541-888-7707
Athletic Director	Mike Herbert	541-888-7208
Executive Dean of Curry Campus	Doug Bunn	208-610-6853
Director of Residence Life	Joe Belter	541-888-7800
Assistant to VP of Admin. Services/Safety Coordinator	Carol Richards	541-888-7206
Coordinator of Student Life and Events	Kyle Croy	541-888-7316
Graphic Designer and Communications Administrator	Anne Matthews	541-888-7612
Chief Human Resources Officer	Rachele Lyon	541-888-7259

General information about emergency response and evacuation procedures for Southwestern is publicized as part of Southwestern's Clery Act compliance efforts. Additional information about the College's Emergency Response Plan may be obtained by contacting Administrative Services at 541-888-7206.

Testing, fire drills, and evacuations are held on an ongoing basis in Student Housing, including one annual announced fire drill and one annual unannounced fire drill. Residents are given an orientation on the fire drill procedure at the beginning of each school year. Any new residents coming in throughout the school year will be individually instructed on the fire drill process by their Resident Assistant. Fire alarm systems and sprinklers are tested annually at Southwestern which is facilitated by the Facilities Department. The Emergency Management

Team facilitates at least one annual announced all-campus evacuation drill that includes Student Housing. During the 2018 year, the Coos Bay and Curry campuses held announced evacuation drills on January 24, 2018 and November 7, 2018. The purpose of evacuation drills is to prepare building occupants for an organized evacuation in case of a real emergency.

The southern Oregon coast has had predictions of a 9+ earthquake. An earthquake of this size may result in a tsunami and isolate all coastal communities from outside relief efforts and inflict heavy damage to infrastructure. Because of this, earthquakes have a great significance should they occur on either the Coos Bay or Curry campuses.

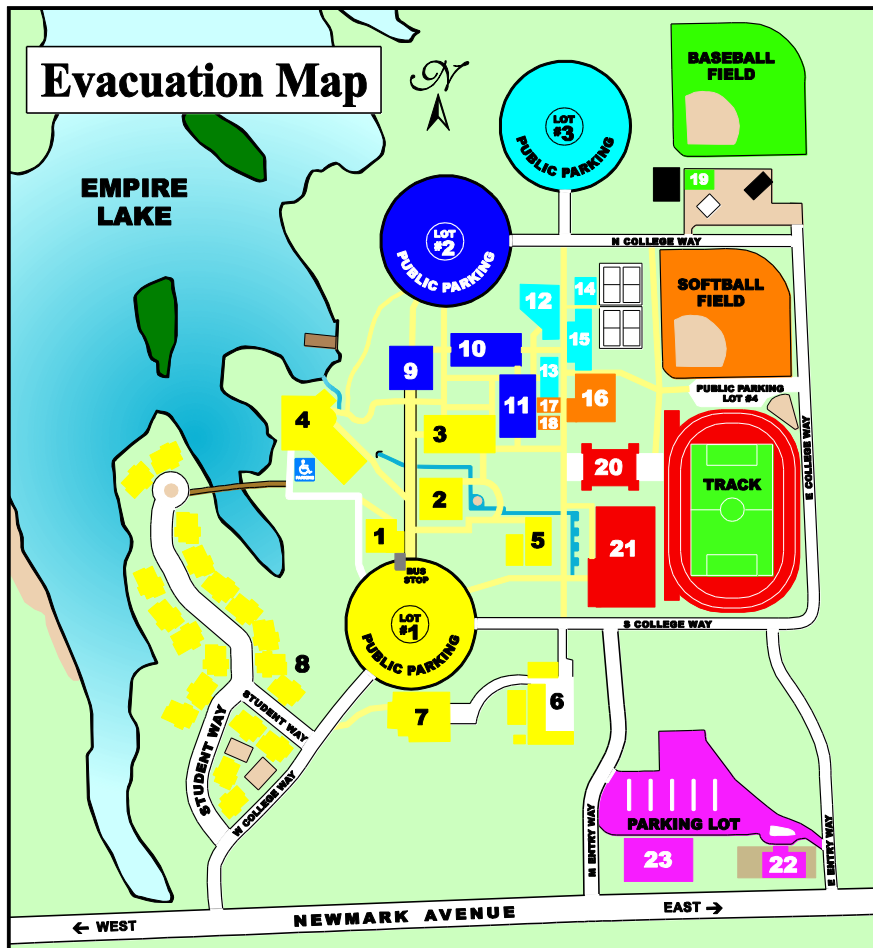
Please take a moment to read Appendix B for directions on what to do in the case of an earthquake/tsunami.

EMERGENCY TESTING, FOLLOW-UP AND REVIEW

Following evacuation drills, Southwestern Emergency Management Team staff meet to assess the drill and adjust future tests; Student Housing staff meet after drills to evaluate their drills also.

During the evacuation drill, students and staff learn the location of emergency exits in residence hall buildings, offices, and classrooms, and are provided guidance about the direction they should travel when exiting each facility. Each building has an evacuation diagram located at [Campus Evacuation Maps](#). Hard copies of these diagrams are also posted throughout Southwestern facilities. Following is a map showing students and staff where they are to evacuate on campus.

BUILDING	RALLY POINT	BUILDING	RALLY POINT
1. Stensland	Parking Lot #1	12. Eden	Parking Lot #3
2. Dellwood	Parking Lot #1	13. Lampa	Parking Lot #3
3. Randolph	Parking Lot #1	14. Sunset	Parking Lot #3
4. Empire	Parking Lot #1	15. Summer	Parking Lot #3
5. Umpqua	Parking Lot #1	16. Fairview	Softball Field
6. Maintenance	Parking Lot #1	17. B-2	Softball Field
7. OCCI	Parking Lot #1	18. Greenhouse	Softball Field
8. Student Housing	Parking Lot #1	19. Fire Science	Baseball Field
9. Tioga	Parking Lot #2	20. Prosper	Track
10. Sitkum	Parking Lot #2	21. Rec. Ctr.	Track
11. Coaledo	Parking Lot #2	22. Family Ctr.	Parking lot in front
		23. Newmark	Parking lot in front



When an emergency evacuation test is being conducted, the following items are to be followed:

1. When evacuating a building, walk briskly, do not run. Remain calm and act in a quiet, orderly manner. Help people in need of assistance.
2. The stairways in Tioga, Prosper, Stensland, Newmark Center and Empire Hall are designed primarily as fire escapes. They are insulated and reinforced, offering the best protection when exiting these buildings. If for some reason your designated exit (stairway or other) is blocked, quickly go to the nearest alternative fire exit.

DO NOT USE THE ELEVATORS DURING FIRE OR EARTHQUAKE

3. Once outside of the building, go directly to your designated rally point.
4. Keep streets, fire lanes, hydrants and walkways clear for emergency vehicles and crews.
5. Do not return to an evacuated building unless instructed by the Police, Fire Department, Campus Security, Maintenance, Vice President of Administrative Services, or other designated emergency personnel in charge. The message to return to an evacuated building will be given at the rallying points.
6. When evacuation is required (for bomb threat, fire, etc.) stay as far away as possible from the source of danger (at least 300 feet).

CURRY CAMPUS

In the event of a major emergency at the Curry Campus, the following response will be followed:

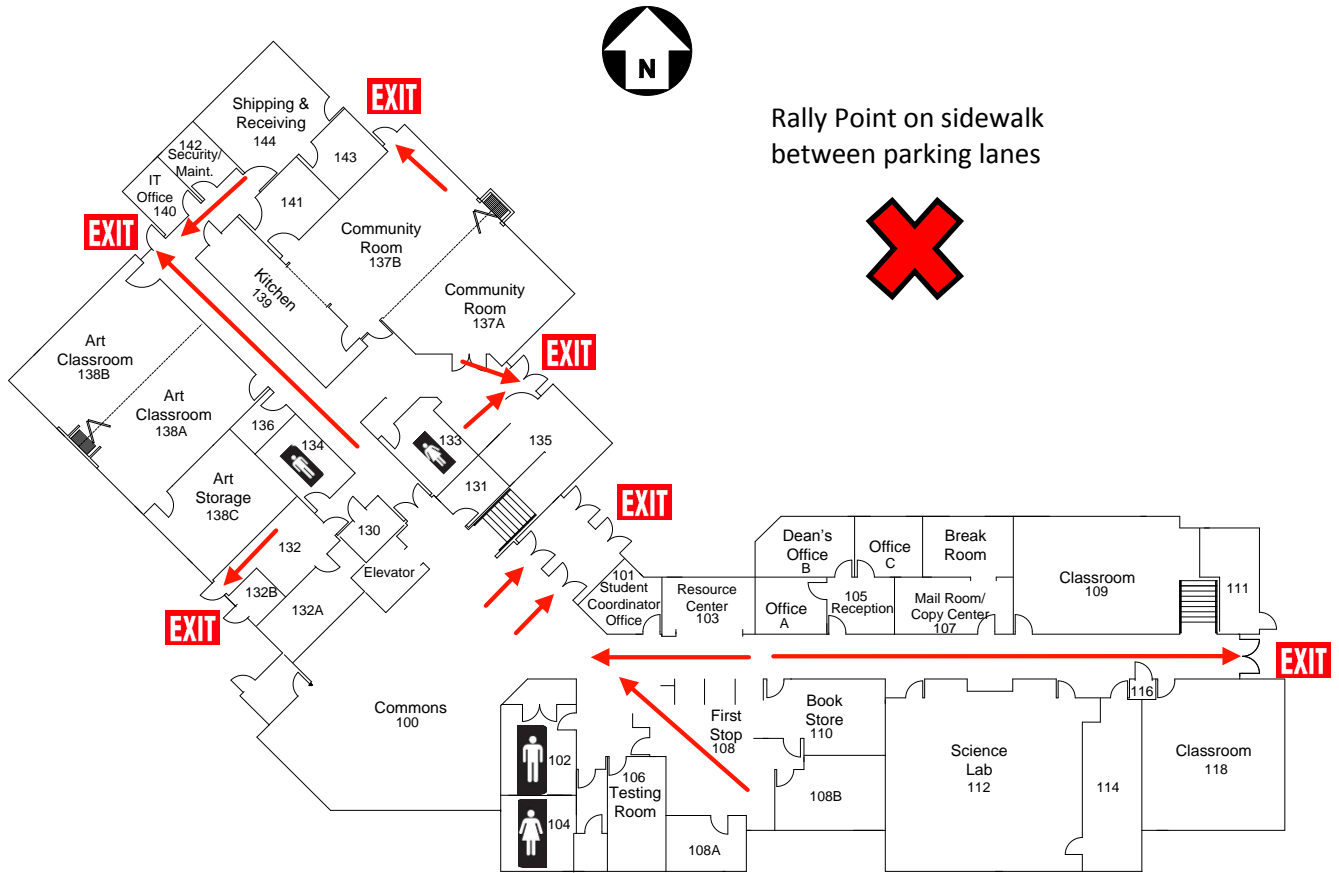
1. Curry staff contact 911
2. Curry staff to contact Curry Campus Executive Dean
3. Executive Dean of Curry Campus to notify Curry staff/students and Coos Bay Campus
4. All staff, students, and public at the Curry Campus should follow all directions given by emergency personnel as soon as they arrive, including fire, police, and ambulance.

The Curry building is alarmed and monitored by Gold Coast Security for fire, who will take appropriate action in the event of an actual emergency. The branch locations have minimal staff with no campus safety personnel and would rely on local emergency personnel for assistance. For more detailed information, contact Doug Bunn at 541-813-1672.

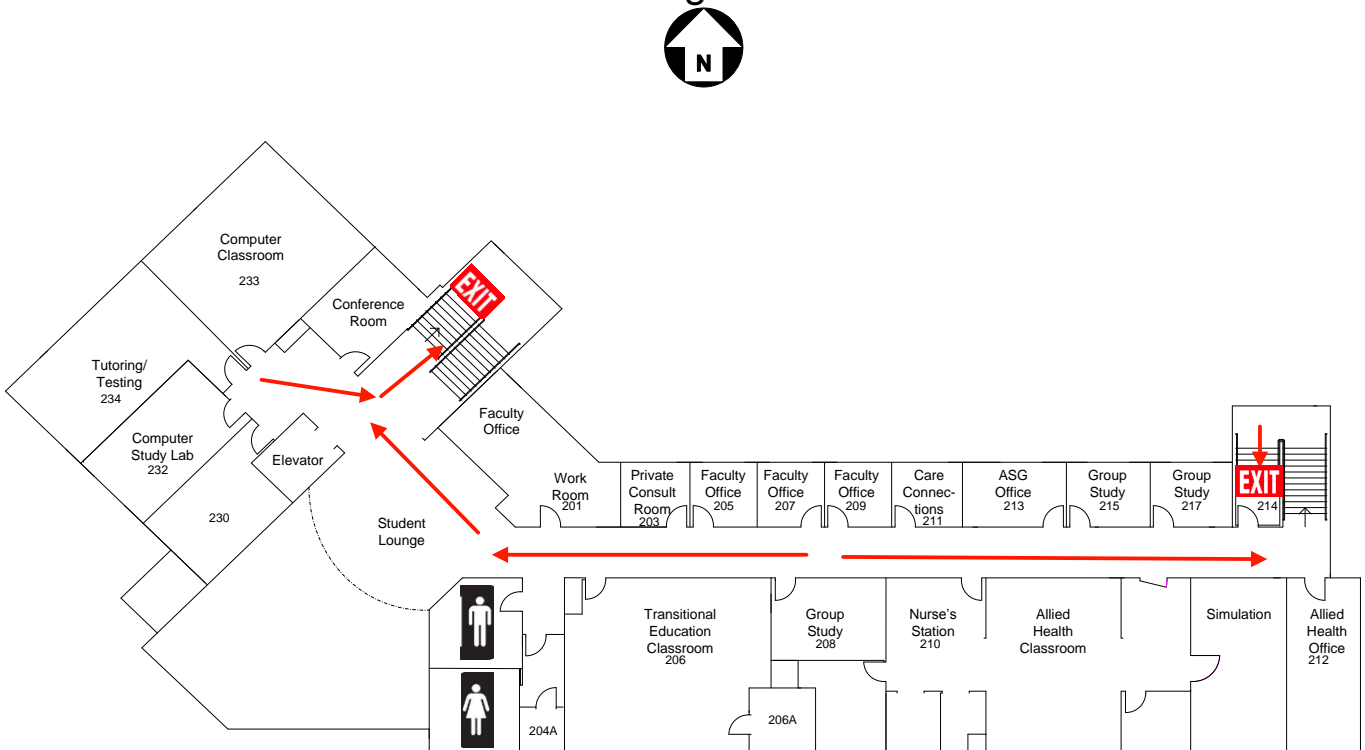
Some Curry staff have received NOAA (National Oceanic and Atmospheric) training for Tsunami awareness and evacuation. Individuals at the Curry Campus have access to the same safety/security information via the Southwestern website and [LakerLink](#). See following diagram for the Curry evacuation routes.

RAVE is used for Coos Bay and Curry campuses in evacuation drills and actual emergencies. It is very important for students and staff to make sure their information in RAVE is accurate. To sign up for RAVE, login to [LakerLink](#), go to either Student Home or Employee Home, and then click on "Manage Your RAVE Account" (for employees) or "RAVE For Emergency Contact" (for students) and enter contact information. The College also uses Alertus Desktop™ Notification for Southwestern faculty and staff which displays an emergency message on the desktop of Southwestern-owned computers.

Emergency Evacuation Routes Brookings 1st Floor



Emergency Evacuation Routes Brookings 2nd Floor



Campus Statistics

Please note that although Southwestern makes a good faith effort in requesting statistics from local law enforcement agencies for Clery Crimes for all areas where Southwestern holds classes, not all agencies necessarily respond. The statistics below are a compilation of Southwestern's statistics (from Southwestern's Incident Reporting System, *Maxient*) and those of local law enforcement agencies who responded to a request from Southwestern. Each year, Administrative Services, local law enforcement, and Campus Security work together on compiling this security report and the statistics found below.

CRIMINAL OFFENSES

Criminal Offenses - On Campus		2016	2017	2018
Murder/Non-negligent manslaughter	Coos Bay	0	0	0
	Curry Campus	0	0	0
Negligent manslaughter	Coos Bay	0	0	0
	Curry Campus	0	0	0
Rape	Coos Bay	1	1	1
	Curry Campus	0	0	0
Fondling	Coos Bay	0	0	0
	Curry Campus	0	0	0
Incest	Coos Bay	0	0	0
	Curry Campus	0	0	0
Statutory Rape	Coos Bay	0	0	0
	Curry Campus	0	0	0
Robbery	Coos Bay	0	0	0
	Curry Campus	0	0	0
Aggravated assault	Coos Bay	0	0	0
	Curry Campus	0	0	0
Burglary	Coos Bay	3	6	1
	Curry Campus	0	0	0
Motor Vehicle Theft (Does not include theft <i>from</i> a motor vehicle)	Coos Bay	0	1	0
	Curry Campus	0	0	0
Arson	Coos Bay	0	0	0
	Curry Campus	0	0	0

Criminal Offenses On Campus – Student Housing Facilities (Coos Bay only)	2016	2017	2018
Murder/Non-negligent manslaughter	0	0	0
Negligent manslaughter	0	0	0

Criminal Offenses On Campus – Student Housing Facilities (Coos Bay only)	2016	2017	2018
Rape	1	1	0
Fondling	0	0	0
Incest	0	0	0
Statutory Rape	0	0	0
Robbery	0	0	0
Aggravated assault	0	0	0
Burglary	3	3	0
Motor Vehicle Theft (Do not include theft <i>from</i> a motor vehicle)	0	0	0
Arson	0	0	0

Criminal Offenses - Non-Campus		2016	2017	2018
Murder/Non-negligent manslaughter	Coos Bay	0	0	0
	Curry Campus	0	0	0
Negligent manslaughter	Coos Bay	0	0	0
	Curry Campus	0	0	0
Rape	Coos Bay	0	0	0
	Curry Campus	0	0	0
Fondling	Coos Bay	0	0	0
	Curry Campus	0	0	0
Incest	Coos Bay	0	0	0
	Curry Campus	0	0	0
Statutory Rape	Coos Bay	0	0	0
	Curry Campus	0	0	0
Robbery	Coos Bay	0	0	0
	Curry Campus	0	0	0
Aggravated assault	Coos Bay	0	0	0
	Curry Campus	0	0	0
Burglary	Coos Bay	1	1	0
	Curry Campus	0	0	0
Motor Vehicle Theft	Coos Bay	0	0	0
	Curry Campus	0	0	0
Arson	Coos Bay	0	0	0
	Curry Campus	0	0	0

Criminal Offenses - Public Property		2016	2017	2018
Murder/Non-negligent manslaughter	Coos Bay	0	0	0
	Curry Campus	0	0	0
Negligent manslaughter	Coos Bay	0	0	0
	Curry Campus	0	0	0
Rape	Coos Bay	0	0	0
	Curry Campus	0	0	0
Fondling	Coos Bay	0	0	0
	Curry Campus	0	0	0
Incest	Coos Bay	0	0	0
	Curry Campus	0	0	0
Statutory Rape	Coos Bay	0	0	0
	Curry Campus	0	0	0
Robbery	Coos Bay	0	0	0
	Curry Campus	0	0	0
Aggravated assault	Coos Bay	0	0	0
	Curry Campus	0	0	0
Burglary	Coos Bay	0	0	0
	Curry Campus	0	0	0
Motor Vehicle Theft (Do not include theft <i>from</i> a motor vehicle)	Coos Bay	0	0	0
	Curry Campus	0	0	0
Arson	Coos Bay	0	0	0
	Curry Campus	0	0	0

HATE CRIMES

The following hate offenses manifest evidence of prejudice based on race, religion, sexual orientation, gender, gender identity, disability, ethnicity, and national origin. Any category reported with other than a zero, will state the category of bias for the crime reported.

There were no hate crimes reported in 2016, 2017 or 2018 at either the Coos Bay and Curry campuses.

2016 – Zero hate crimes

2017 – Zero hate crimes

2018 – Zero hate crimes

VAWA OFFENSES

VAWA Offenses - On Campus		2016	2017	2018
Domestic Violence	Coos Bay	0	0	0
	Curry Campus	0	0	0
Dating Violence	Coos Bay	0	0	0
	Curry Campus	0	0	0
Stalking	Coos Bay	0	0	0
	Curry Campus	0	0	0

VAWA Offenses - On Campus – Student Housing Facilities (Coos Bay only)	2016	2017	2018
Domestic Violence	0	0	0
Dating Violence	0	0	0
Stalking	0	0	0

VAWA Offenses - Non-Campus		2016	2017	2018
Domestic Violence	Coos Bay	0	0	0
	Curry Campus	0	0	0
Dating Violence	Coos Bay	0	0	0
	Curry Campus	0	0	0
Stalking	Coos Bay	0	0	0
	Curry Campus	0	0	0

VAWA Offenses - Public Property		2016	2017	2018
Domestic Violence	Coos Bay	0	0	0
	Curry Campus	0	0	0
Dating Violence	Coos Bay	0	0	0
	Curry Campus	0	0	0
Stalking	Coos Bay	0	0	0
	Curry Campus	0	0	0

ARRESTS

Arrests - On Campus		2016	2017	2018
Weapons: carrying, possessing, etc.	Coos Bay	0	2	0
	Curry Campus	0	0	0
Drug law violations	Coos Bay	5	9	5
	Curry Campus	0	0	0
Liquor law violations	Coos Bay	53	20	26
	Curry Campus	0	0	0

Arrests - On Campus – Student Housing Facilities (Coos Bay only)		2016	2017	2018
Weapons: carrying, possessing, etc.		0	0	0
Drug law violations		5	9	0
Liquor law violations		53	20	26

Arrests - Non-Campus		2016	2017	2018
Weapons: carrying, possessing, etc.	Coos Bay	1	0	0
	Curry Campus	0	0	0
Drug law violations	Coos Bay	15	18	11
	Curry Campus	0	0	0
Liquor law violations	Coos Bay	0	1	1
	Curry Campus	0	0	0

Arrests - Public Property		2016	2017	2018
Weapons: carrying, possessing, etc.	Coos Bay	0	0	0
	Curry Campus	0	0	0
Drug law violations	Coos Bay	3	0	0
	Curry Campus	0	0	0
Liquor law violations	Coos Bay	15	0	1
	Curry Campus	0	0	0

DISCIPLINARY ACTIONS

Disciplinary Action - On Campus Do not include disciplinary actions that were strictly for school policy violations. If the disciplinary action is the result of an arrest, please do not count it here; count the violation as 1 arrest.		2016	2017	2018
Weapons: carrying, possessing, etc.	Coos Bay	0	0	0
	Curry Campus	0	0	0
Drug law violations	Coos Bay	3	10	0
	Curry Campus	0	0	0
Liquor law violations	Coos Bay	0	7	7
	Curry Campus	0	0	0

Disciplinary Action - On Campus - Residence Halls (Coos Bay only) Do not include disciplinary actions that were strictly for school policy violations. If the disciplinary action is the result of an arrest, please do not count it here; count the violation as 1 arrest.		2016	2017	2018
Weapons: carrying, possessing, etc.		0	0	0
Drug law violations		3	10	0
Liquor law violations		0	7	7

Disciplinary Action Non-Campus Do not include disciplinary actions that were strictly for school policy violations. If the disciplinary action is the result of an arrest, please do not count it here; count the violation as 1 arrest.		2016	2017	2018
Weapons: carrying, possessing, etc.	Coos Bay	0	0	0
	Curry Campus	0	0	0
Drug law violations	Coos Bay	0	0	0
	Curry Campus	0	0	0
Liquor law violations	Coos Bay	0	0	0
	Curry Campus	0	0	0

Disciplinary Action – Public Property Do not include disciplinary actions that were strictly for school policy violations. If the disciplinary action is the result of an arrest, please do not count it here; count the violation as 1 arrest.		2016	2017	2018
Weapons: carrying, possessing, etc.	Coos Bay	0	0	0
	Curry Campus	0	0	0
Drug law violations	Coos Bay	0	0	0
	Curry Campus	0	0	0
Liquor law violations	Coos Bay	0	0	0
	Curry Campus	0	0	0

Unfounded Crimes	2016	2017	2018
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2016: Zero unfounded crimes.

2017: Zero unfounded crimes.

2018: Zero unfounded crimes

Annual Fire Safety Report

FIRE SAFETY STATISTICS

The Higher Education Opportunity Act calls for the disclosure of statistics for each student housing facility as they relate to the occurrence of fires and unwanted/false alarms for the current and two preceding calendar years.

FIRE SAFETY LAST YEAR

The statistics below refer to fire drills conducted during the 2016-2018 academic years. Listed you will find the date and time of the drill as well as the length of time from beginning of alarm sounding to end alarm clearing Student Housing and conducting roll in Parking Lot 1.

ANNOUNCED FIRE DRILL:

March 2, 2016, 3:30 p.m. (10 minutes)
May 24, 2016, 3:30 p.m. (12 minutes)
November 29, 2017 (14 minutes)
November 7, 2018, 9:00 a.m. (9 minutes)

UNANNOUNCED FIRE DRILL:

November 8, 2016, 2:10 p.m. (10 minutes)
January 24, 2018 (9 minutes)
April 25, 2015, 3:01 p.m. (12 minutes)

FIRE SAFETY SYSTEMS

1. FIRE EXTINGUISHER

Every month the Resident Assistants (RAs) perform health and safety inspections. During these inspections, every apartment is checked. The first thing RAs look at when they enter the apartment is the fire extinguisher to make sure it is charged and that it has not been tampered with. Once the fire extinguisher has been checked, the tag attached to the extinguisher will be initialed and dated. RAs then date and mark the status of the fire extinguisher on the Fire Extinguisher Inspection Form. After inspections are completed, inspection forms are given to the Director of Residence Life. If there is a problem with an extinguisher, the Director will make sure that a work order gets submitted to have it repaired.

The Director of Residence Life annually has someone come out to check and recharge every fire extinguisher in Housing. There is a log located in this section showing the times inspections were conducted.

2. FIRE ALARMS

Every month, RAs will perform health and safety inspections. During these inspections, every apartment will be checked. While in the apartments, RAs check every fire alarm to make sure they are hooked up and functioning. If the fire alarm is not working because of a low battery, the RA will replace the battery. If the alarm still will not work, the RA will complete a work order to have it repaired.

3. SPRINKLERS

Four of the apartments have sprinklers hooked up inside of them in case there is a fire (Gray's Harbor, Battery Point, Trinidad Head, and Willapa Bay). This system is monitored by Gold Coast Security. There is an outside closet in Willapa Bay that serves as the central hub for this system. The Coos Bay Fire Department will be notified through this system if a fire occurs.

4. FIRE HYDRANTS

There are four fire hydrants located throughout the Housing complex. They are located in the following areas.

- The first entrance when you come in from Newmark across from Grays Harbor
- In between Willamette River and Warrior Rock
- In front of Tillamook Rock
- At the end of the cul de sac by Umpqua River and Heceta Head

FIRE SAFETY POLICY

Following is the Fire Safety Policy as stated in the Room and Board Agreement under Housing Conduct Code Section 10, labeled "Fire Safety":

1. FLAMMABLE MATERIALS

Residents may not possess, display, or burn flammable materials (including, but not limited to, fireworks, candles, incense, gasoline, kerosene lamps, and open cooking elements). The College and Student Housing prohibit the use of any tobacco products in any manner within the confines of the apartment and building. Tobacco product or inhalant delivery system use or possession by students under the age of 21 is not permitted, in accordance with Oregon Senate Bill 754.

2. LIGHT FIXTURES

Residents may not hang anything from the ceiling, including sheets, covering light fixtures

3. FUEL POWERED MOTOR VEHICLES

All fuel powered motor vehicles (including but not limited to, motorcycles, all-terrain vehicles, and gas powered scooters) must be parked in designated parking areas.

4. CONDUCT AND SANCTIONS

If one of the above or any other guideline is broken, students may face a variety of consequences from the Student Housing staff. Sanctions can include verbal warnings, citations, housing probation, or eviction. Fines are as follows:

- Burning candles and incense in apartment-\$10
- Smoking in an apartment or within 10 feet of an entrance- \$10
- Replace a smoke alarm - \$33
- Smoke alarm batteries are free to students unless they abuse it; at that point it is \$8
- Intentionally tampering with fire alarms-\$55
- Tampering with and re-filling fire extinguishers- \$55
- Replacing a fire extinguisher-\$75
- Apartments and rooms damaged by smoke-\$50

Note: During monthly health and safety inspections, RAs and RDs will check to ensure that heaters are not being blocked and outlets are not being overloaded.

Fire Safety Procedures

FIRE DRILLS

Fire drills will be held on an ongoing basis, including one annual announced fire drill and one annual unannounced fire drill. Residents will be given an orientation on the fire drill procedure at the beginning of each school year. Any new residents coming in throughout the school year will be individually instructed on the fire drill process by their Resident Assistant. At this point in time, Southwestern has determined that future improvements in fire safety are not necessary, as the fire safety procedures discussed have been effective.

FIRE DRILL PROCEDURES

Fire drills will be monitored and designed collaboratively by Student Housing and Campus Security. Once the drill commences, residents will hear an alarm signaling the need to evacuate the building they are in. Resident Assistants will sweep their respective areas after determining it is safe to do so. After the Resident Assistants have evacuated their buildings, they will direct foot traffic to the center of Parking Lot #1. Upon arrival at Parking Lot #1, Resident Assistants will take roll for their assigned buildings. Once the Resident Assistants have identified who is missing, they will interview residents to determine possible locations of missing students and report all information to the Resident Director on duty who will be located in the middle of Parking Lot #1. The Resident Director on duty will gather all resident information and report it to Campus Security.

ANNOUNCED FIRE DRILL

An announced fire drill will be advertised through bulletin boards, e-mail, website, and campus mail at least one week prior to the drill. On the date and time of the announced fire drill, Student Housing residents will hear an alarm signaling the beginning of the drill and follow the above listed procedures. If at any point the drill is unsatisfactory, more drills will be conducted until the drill is done properly in a timely manner.

UNANNOUNCED FIRE DRILL

An unannounced fire drill will be conducted at an undisclosed time during the winter or spring term. On the date and time of the unannounced fire drill, Student Housing residents will hear an alarm signaling the beginning of the drill and follow the above listed procedures. If at any point the drill is unsatisfactory, more drills will be conducted until the drill is done properly in a timely manner.

HOW TO RUN A DRILL

- **Before and after a drill call:**
Gold Coast Security: 541-267-5000-code verification (password) **Dellwood**
Call Campus Security 541-297-4200
- **Set off alarms on the three story buildings**
There is a fire panel in the outside closet of Willapa Bay. Hold the drill button down for two seconds and alarms will go off in all of the three story apartments. To shut the alarms off, press the reset button.
- **Pull Station**
If a pull station gets pulled and there is not a fire, you can reset at the station with the fire key. After this is done, go and reset the system at the fire panel by pressing the reset button.

Fire Safety Education and Training

TRAINING

Resident Assistant staff begin training the day after Labor Day. During this time RAs are trained on how to inspect fire extinguishers and fire alarms during health and safety inspections. RAs will also go through the proper fire extinguisher training so they are prepared to use them if necessary.

Once the school year starts, RAs have an area meeting with their residents where they discuss with their residents how to manage their fire extinguishers, fire alarms and what to do if there is a fire. Residents are to report any problems to their RA or a Housing staff member.

Fire Safety Contacts

IN CASE OF FIRE CONTACT:

1. Campus Security 541-297-4200 or 911
2. RA DUTY PHONE 541-260-6996 OR RESIDENT DIRECTOR(S)

AFTER A FIRE CONTACT:

1. RA Duty Phone 541-260-6996
2. Resident Director(s)
3. Director of Resident Life

Fires – On Campus Student Housing Facilities

All Student Housing Units have an address of 365 Student Way, Coos Bay OR 97420

Building	# of Fires 2016	# of Fires 2017	# of Fires 2018	Date/ Time	Cause Category	Location	# of injuries requiring medical treatment	Deaths	Value property damage
Point Adams	0	0	0						
North Head	0	0	0						
Willamette River	0	0	0						
Warrior Rock	0	0	0						
Desdemona Sands	0	0	0						
Tillamook Rock	0	0	0						
Cape Meares	0	0	0						
Yaquina Head	0	0	0						
Umpqua River	0	0	0						
Cape Arago	0	0	0						
Coquille River	0	0	0						
Cape Blanco	0	0	0						
St. George	0	0	0						
Battery Point	0	0	0						
Trinidad Head	0	0	0						
Willapa Bay	0	0	0						
Gray's Harbor	0	0	0						
Heceta Head	0	0	0						
Total	0	0	0				0	0	\$0

CAUSE CATEGORY

1 = Unintentional Fire – Cooking, Smoking materials, Open flames, Electrical, Heating equipment, Hazardous products, Machinery/Industrial, Natural, Other; 2 = Intentional Fire; 3 = Undetermined

Fires – Summary

Name of Facility	2016			2017			2018		
	Fires	Injuries	Deaths	Fires	Injuries	Deaths	Fires	Injuries	Deaths
Point Adams	0	0	0	0	0	0	0	0	0
North Head	0	0	0	0	0	0	0	0	0
Willamette River	0	0	0	0	0	0	0	0	0
Warrior Rock	0	0	0	0	0	0	0	0	0
Desdemona Sands	0	0	0	0	0	0	0	0	0
Tillamook Rock	0	0	0	0	0	0	0	0	0
Cape Meares	0	0	0	0	0	0	0	0	0
Yaquina Head	0	0	0	0	0	0	0	0	0
Umpqua River	0	0	0	0	0	0	0	0	0
Cape Arago	0	0	0	0	0	0	0	0	0
Coquille River	0	0	0	0	0	0	0	0	0
Cape Blanco	0	0	0	0	0	0	0	0	0
St. George Reef	0	0	0	0	0	0	0	0	0
Battery Point	0	0	0	0	0	0	0	0	0
Trinidad Head	0	0	0	0	0	0	0	0	0
Willapa Bay	0	0	0	0	0	0	0	0	0
Gray's Harbor	0	0	0	0	0	0	0	0	0
Heceta Head	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0

Appendix A: Emergency Response Plan

DEFINITION OF AN EMERGENCY

An emergency is any unplanned event that can cause death or significant injuries to faculty, staff, students, or the public, or that can shut down business, disrupt operations, cause physical or environmental damage, or can threaten the institution's financial standing or public image.

The Emergency Response Plan is put into effect whenever a crisis, man-made or natural, disrupts operations, threatens life, creates major damage, and occurs within the College community and/or Southwestern campuses in Curry County. While it is likely that outside assistance would be available in most large-scale crisis/emergency situations affecting Southwestern Oregon Community College, the College must be prepared to carry out crisis response and short-term recovery operations on an independent basis.

LEVELS OF EMERGENCY

Emergencies can generally be classified into three levels:

Level I (Disaster)

A community-wide emergency that seriously impairs or halts the operation of Southwestern Oregon Community College. Outside emergency services would be needed.

Examples of a level I disaster include, but are not limited to:

- Mass casualties.
- Natural disaster such as earthquake or tsunami.
- Large-scale hazardous material spill.
- Health epidemics.
- Major weather emergency.

Level II (Major Emergency)

A serious emergency that completely disrupts one or more operations of Southwestern Oregon Community College and may affect mission-critical functions or life safety. Outside emergency services, as well as major efforts from campus support services, would be required. Major policy considerations and decisions would usually be required.

Examples of a level II major emergency include, but are not limited to:

- Hostage situation
- Major fire
- Civil disturbance
- Widespread long term power outage
- Bomb threat
- Natural gas explosion
- Suicide
- Death of a student, faculty, or staff member (depending on circumstances)
- Shooting or stabbing
- National terrorist incident

Level III (Minor Emergency)

A localized, contained incident that is quickly resolved with internal resources or limited help and does not affect the overall functioning capacity of Southwestern Oregon Community College.

Examples of a level III minor emergency include, but are not limited to:

- | | |
|-----------------------------------|----------------------|
| Small fire | Limited power outage |
| Small hazardous material incident | Weather |

AUTHORITY

The Vice President of Administrative Services (or his/her designee(s)) has the authority to declare a campus state of emergency in consultation with the President (if available). In the absence of the Vice President of Administrative Services, the Director of Campus Security, the Director of Integrated Technology Services, or the Vice President of Instruction are designated with this authority.

The Vice President of Administrative Services is responsible for establishing the basic policies and procedures that govern the College's emergency response plan. The Vice President of Administrative Services (or designee), in consultation with the President, is the highest level of authority during an emergency.

EMERGENCY MANAGEMENT TEAM (EMT)

The Southwestern Emergency Management Team consists of the following members:

POSITION	NAME	CONTACT INFO
Director Campus Security	Joe Thomas	541-297-4200
Vice President of Administrative Services	Jeff Whitey	541-888-7402
Director of Facilities Services	Emerald Brunett	541-888-7229
Director of Integrated Technology Services/CIO	Carl Gerisch	541-888-7707
Athletic Director	Mike Herbert	541-888-7208
Executive Dean of Curry Campus	Doug Bunn	208-610-6853
Director of Residence Life	Joe Belter	541-888-7800
Assistant to VP of Admin. Services/Safety Coordinator	Carol Richards	541-888-7206
Coordinator of Student Life and Events	Kyle Croy	541-888-7316
Graphic Designer and Communications Administrator	Anne Matthews	541-888-7612
Chief Human Resources Officer	Rachele Lyon	541-888-7259

Southwestern Emergency Management Team will, without delay, take into account the safety of the campus community, determine the appropriate content/recipients to receive emergency notification, and initiate emergency notification procedures, unless issuing a notification will, in the professional judgment of the Emergency Management Team, compromise the efforts to assist a victim or contain, respond to, or otherwise mitigate the emergency.

The Emergency Management Team is responsible for coordinating the College's Emergency Response Plan. The Emergency Management Team members' duties and responsibilities relate closely to their normal authority and functions. In the event of a crisis, coordination and organization of all operations at the College shall be directed by the Emergency Management Team. Emergency Management Team members will implement the strategy and planning of the response. They communicate with field personnel, issue instructions to particular units, and monitor progress in carrying out the instructions.

The responsibilities of the Emergency Management Team include, but are not limited to:

1. Activate the Emergency Operations Center, as required.
2. Establish the Incident Commander for the emergency.
3. Establish support leaders for:
 - a. Operations
 - b. Planning
 - c. Logistics
 - d. Finance (if needed)
4. Identify the emergency and determine its impact. Decide the necessary level of response required to manage the emergency.

- a. Use the established Southwestern Oregon Community College Emergency Response Plan and department response operations as a guide to deal with the situation.
- b. Facilitate a multi-unit response.
- c. Activate the Emergency Management Team.
5. Exercise control over emergency operations and provide guidance on matters of policy and decision-making authority.
6. Authorize the evacuation and/or closing of College facilities, as required.
7. Notify Campus tenants of the emergency situation.
8. Coordinate the release of all official information and instructions to the public.

In addition to their responsibilities in an emergency, the Emergency Management Team members are responsible for insuring that the College is prepared and in the best possible position to respond to an emergency when it occurs. Additional duties of Emergency Management Team members include:

1. Insuring that department heads have developed departmental plans and checklists to respond to various emergencies. Departmental plans will be coordinated and amended as needed. A copy of each departmental plan, including updates, will be forwarded to the Director of Campus Security, and to the Vice President of Administrative Services. Department plans will be general in nature and include the assignment of general duties and responsibilities to employees, perceived to be required for each type of emergency.
2. Insuring that staff are familiar with the overall emergency response plan and the specific requirements of departmental plans.
3. Maintaining adequate emergency resources and equipment particular to departmental plan requirements.
4. Maintaining a call list of departmental employees designated as "essential personnel." This call list will be updated as needed and a copy (including updates) forwarded to the Department of Campus Security.
5. Ensuring the preservation of essential records, or other materials deemed essential.

In the event of a crisis, the Vice President of Administrative Services or his/her designee will declare the need for the members of the Emergency Management Team to convene, and will contact all members of the Emergency Management Team. Whether the Emergency Management Team is activated depends upon the type of emergency situation, its potential for escalation, its geographical extent, and other factors. Department Plans may be able to contain localized emergencies. Southwestern Emergency Response Teams may be activated as deemed appropriate to the situation.

EMERGENCY MANAGEMENT TEAM RESPONSIBILITIES

INCIDENT COMMANDER - VICE PRESIDENT OF ADMINISTRATIVE SERVICES

- Provides overall leadership for incident response
- Ensures incident safety
- Establishes incident objectives
- Is responsible for all functions until delegated
- Delegates authority to others
- Provides information to internal and external parties
- Establishes and maintains liaison with other responders – police, fire other emergency response teams
- Takes direction from agency official.

OPERATIONS - DIRECTOR OF CAMPUS SECURITY

- Directs and coordinates all incident tactical operations
- Directs EMT responders
- Is typically one of the first functions to be assigned
- Establishes on site command post

PLANNING- EXECUTIVE DIRECTOR OF INTEGRATED TECHNOLOGY SERVICES

- Tracks resource status (responding EMT members)
- Tracks situation status
- Prepares the Emergency Management Team’s action plan
- Develops alternative strategies
- Provides documentation services

LOGISTICS - EXECUTIVE DIRECTOR OF STUDENT HOUSING/DIRECTOR OF FACILITIES SERVICES

- Provides communications
- Provides food and medical support to Team members
- Manages supplies and facilities

FINANCE - ACCOUNTING TECHNICIAN (OPTIONAL)

- Contract negotiation and monitoring
- Timekeeping
- Cost analysis
- Compensation for injury or damage to property in conjunction with Administrative Services

EMERGENCY RESPONSIBILITIES

ACADEMIC PLANNING

Position on Campus
Vice President of Instruction

- Responsible for all academic issues that surface during an emergency.
- Arrange for temporary classrooms or workspace.
- Coordinate with Executive Director of Enrollment Management and Conference and Event Services.
- Refer to Office of Instruction Department Plan and checklists.

BUILDING MAINTENANCE AND FACILITIES SERVICES

Position on Campus

Director of Facilities

- Assist local, state and federal agencies in damage estimation.
- Maintain and provide access to blueprints and building plans.
- Execute design work and the subsequent construction contracts to correct necessary repairs that are beyond the capability or resources of the campus work force.
- Make assessment of any campus area susceptible to damage. An assessment of building safety will be made in coordination with the Campus Security Department. Utilities will be secured if an unsafe condition exists, restoration of utility service will be made when appropriate.
- Coordinate the assessment of the condition of the water and sewage system.
- Make emergency repairs.
- Remove debris.
- Provide necessary support to other departments (heavy equipment, barricades, etc.)
- Provide sanitation services during an emergency.
- Provide generators for emergency power.
- Refer to Plant Services Department Plan and checklists.

COMMUNICATION AND COMPUTER SERVICES

Position on Campus

Executive Director Information Technology Services

- Provide phone service for Media Relations.
- Provide phone service for Emergency Command Center.
- Re-establish affected networks.
- Relocate affected offices if necessary.
- Implement Information Technology Services emergency procedures and disaster recovery plan as needed.
- Maintain network and computing operations.
- Secure critical data and information resources
- Repair and restore network and computing facilities.
- Refer to ITS Disaster Recovery Plan and checklists.

COUNSELING

Position on Campus

Student Support Services

- Organize and implement appropriate mental health interventions in crisis situations.
- Facilitate mental health debriefings with crisis team after crisis response.
- Review departmental crisis plans to ensure adequate attention is given to mental health issues.
- Advise Emergency Management Team regarding the mental health referral list to secure appropriate community support in crisis situations.
- Work with Red Cross as needed.
- Refer to Counseling Services Department Plan and checklists.

FAMILY CENTER

Position on Campus Manager of Child Family Services

- Direct/arrange for emergency meals.
- Request necessary food supplies.
- Coordinate efforts with Red Cross and other agencies.
- Coordinate with EMT to communicate with parents.
- Refer to Family Center Department Plan and checklists.

FOOD SERVICE

Position on Campus Manager of Dining Services

- Direct/arrange for emergency meals.
- Inventory available food supplies.
- Request necessary food supplies.
- Coordinate efforts with Red Cross and other agencies.
- Coordinate with Director of Residential Life regarding meal procedures.
- Refer to Dining Services Department Plan and checklists.

HOUSING (INCLUDING PROVISIONAL SHELTER)

Position on Campus Director of Student Housing

- Responsible for the operation and maintenance of College housing facilities and emergency shelters, as well as assisting in providing housing services.
- Coordinate with Red Cross if necessary.
- Coordinate the distribution of supplies.
- Assess the impact of the situation on students and student life.
- Account for all residents of student housing.
- Coordinate communications with families and parents.
- Identify individuals with special needs and implement plans for assistance.
- Refer to Student Housing Department Plan and Checklists.

LEGAL

Position on Campus Vice President of Administrative Services

- Consult College attorney to advise EMT on any legal issues arising from the emergency.
- Assist with notification of Board as appropriate.

MEDIA RELATIONS

Position on Campus**Communications Administrator**

- Coordinate emergency information to be disseminated during and after a crisis to Coos Bay/North Bend/Curry community. May update information using social media sites such as Southwestern's Facebook page.
- Maintain communications with media and others affected by the incident.
- Provide input into all decisions related to communications and public relations.
- Make appropriate plans for media.
- Organize press conferences and releases.
- Coordinate with other departments for cost recording.
- In collaboration with the President, serve as official College spokesperson to media.

NEWMARK CENTER**Position on Campus****Tenants**

- Follow parent agency emergency plan.
- Communicate with Southwestern Emergency Management Team.
- SCFS will inventory food available and coordinate with Red Cross.

PERSONNEL SERVICES**Position on Campus****Chief Human Resources Officer**

- Arrange for expedited services of temporary employees when required.
- Coordinate mental health assistance to faculty and staff in coordination with counseling services.
- Coordinate with other departments for cost recording.
- Assist faculty/staff where needed.
- Coordinate any employee relations matters arising from an emergency.
- Coordinate efforts with ITS staff to restore payroll data.

PRESIDENT'S OFFICE**Position on Campus****President**

- Serve as official contact with Board.
- Approve all official communiqués.
- Serve as official College spokesperson when appropriate.
- Serve as contact with government officials and work closely with the Media Relations office on public communication.

PROCUREMENT/FINANCE

Position on Campus Account Technician

- Initiate a records-keeping system for all expenditures associated with emergency operations.
- Coordinate security of on campus funds.
- Initiate/process emergency purchases.
- Arrange for contract services and locate required equipment and supplies.
- Initiate record-keeping system and coordinate with Purchasing regarding cost recording.
- Arrange for a photo/video team to document damage for insurance purposes.
- Initiate/process insurance claims.
- Coordinates emergency purchasing (in emergencies will be decentralized).
- Coordinate with other departments for cost recording.
- Provide budget accounts for emergency spending.
- Identify funds available to meet emergency needs.
- Coordinate efforts with ITS staff to restore financial data.
- Refer to Business Office Department Plan and checklists.

SAFETY

Position on Campus Director of Campus Security

- Coordinate with off-campus emergency response resources.
- Monitor and assess the safety hazards and unsafe situations to develop measures for ensuring personnel safety.
- Point of contact for assisting or coordinating agencies.
- Consult with leader of the Emergency Management Team about the development of overall incident plan.
- Develop plans for effective use of communications among various off-campus agencies and the EMT (pre-emergency)
- Determine evacuation routes and implement evacuation plans.
- Direct access and security control.
- Assess/direct efforts to control hazardous materials in conjunction with the Fire Department.

COMMUNICATIONS AND MEDIA RELATIONS PRINCIPLES

In a crisis, Southwestern Oregon Community College must respond immediately and be open and candid in disseminating accurate and complete information to the public. The communications portion of the emergency response plan presumes that it is in the College's interest to take a pre-emptive approach to public relations in a crisis and that our preferred strategy will be one of forthcoming disclosure of as much confirmed information as possible. The goal is to minimize speculation, inaccurate reporting, and negative publicity. By acting in this manner, the institution has more influence on what the media reports and acts to end the public relations aspect of a crisis as quickly as possible.

COMMUNICATION WITH THE CAMPUS COMMUNITY

When a crisis initially occurs, basic information will be provided to the Operator at the switchboard by the Emergency Management Team to respond to incoming phone calls and inquiries. The emergency communications system may also be utilized to reach the College population.

The following strategies can/will be utilized in a crisis to communicate with the campus community:

- For faculty and staff, voice mail can be utilized to send out basic information regarding a crisis.
- If the campus network is available for use, an emergency alert message could be sent to all faculty, staff, and students via e-mail, sms, voice message or voicemail.
- If voice and data capabilities are not available, the Emergency Operations Center is equipped with a shortwave radio and will be used to communicate to county agencies. Runners will be used to disseminate communiqués from the EMT and where offices and individuals could go to receive information about the emergency. Printed information will be made available at this location for distribution on-campus.
- All Campus Security patrol vehicles have loudspeaker capability. Patrol vehicles can be used to announce messages on campus at various locations to alert the community to the emergency and what steps should be taken.

STRATEGIES FOR WORKING WITH THE MEDIA

1. Working quickly and proactively is imperative. Journalists tend to report the first information they get. If information is slow in coming it invites speculative coverage. All employees should direct the media to the Director of Community Relations for official press release information.
2. The media should be given as much information as possible. When information is withheld, we run the risk of inaccurate reporting, negative editorials, and damaging future media relations.
3. While communication following an incident is reactive by nature, the goal of media relations officers is to turn the situation into a proactive communications opportunity.

OFFICE OF COMMUNITY RELATIONS RESPONSIBILITIES

1. Community Relations will assist in developing strategy and appropriate messages, in preparing "talking points" and fact sheets, and in providing text for fliers/posters, e-mail distributions, and postings to the Southwestern Oregon Community College website. Media Relations will prepare and distribute all news releases to on- campus and off-campus media.
2. The Communications Administrator (or designee) will serve by default as the College's official spokesperson to whom media questions will be referred. Where major incidents are concerned, or where especially sensitive issues are involved, an appropriate informed high-level administrator (president, vice president, executive director, e.g.) will be designated as official spokesperson throughout the particular crisis-reporting period. This individual must be available and accessible to the community relations office and/or news media at all times during the crisis. Responsibilities to media may include participating in press conferences and being interviewed in person or by telephone.

COMMUNICATIONS ADMINISTRATOR EMERGENCY RESPONSE CHECKLIST

1. Immediately respond to the emergency and the needs of the news media.
2. Consult with pertinent administrators and the EMT to determine the level of response needed.
3. Work with law enforcement and emergency services (if involved) and College personnel to develop facts. Draft talking points, fact sheets, flier/poster text, e-mail, website posting, emergency closing hot line/information desk recordings, and news releases as appropriate.
4. Distribute news releases to media.
5. Be available to the media until the crisis is over and media interest abates.
6. Delegate information gathering and distribution responsibilities to other College officials as appropriate.

RESPONSE LEVELS

The Communications Administrator will respond according to the level of crisis using the following rankings:

1. Crisis media response
2. Timely media response
3. Routine or non-media response

Response level 1 will always be in effect when emergency level 1 (disaster) or 2 (major emergency) are in effect. Response level 2 will be in effect in most cases for emergency level 3 (minor emergency). By definition, response level 3 would not be used in any case in which the Emergency Response Plan is activated.

CRISIS MEDIA RESPONSE

These incidents are certain to have a high media interest and an expectation for immediate reporting, along with a concomitant impact on the College's public image. Immediate notification must be made to the Media relations Office and immediate action taken by it, 24 hours a day, 365 days a year.

Every reasonable effort should be made to release an alert to the news media within an hour, or less, giving bare minimum details of the time, place and nature of the event with an assurance that the alert will be followed as quickly as possible with a more detailed report. In the highest level of crisis operations, immediate communications may be limited to on-campus and local media, as well as to wire services, but will be expanded as quickly as possible. Follow-up news releases will be made as needed and as quickly as essential details can be compiled. Depending on the nature of the event and the media's interest, continued follow-up reporting will be done as information becomes available and as official statements can be prepared. For major events, this stage of crisis response may continue for days or even weeks.

Technical support may be requested from elsewhere on campus to prepare and process communications to the on-campus and off-campus communities. Crisis communications will take precedence over other activities as needed, until the crisis is over or the urgency moves to a lower level.

TIMELY MEDIA RESPONSE

These incidents can generally be handled on a next-business-day basis. Good faith efforts will be made to meet media deadlines, if the media inquires, and to report in a timely manner as defined by journalistic standards. News releases will be processed and disseminated according to regular policy.

ROUTINE OR NON-MEDIA RESPONSE

These incidents pose no need for crisis communications, either by their nature or magnitude, and therefore will not involve activation of the Emergency Response Plan. The matter will be handled by the media relations office, which will use its news judgment on whether reporting to the media is needed. News releases will be processed and disseminated according to regular policy.

FOLLOW-UP AND REVIEW

The Emergency Management Team will assemble following each crisis to evaluate how the situation was handled and make recommendations to better handle similar situations in the future. Once per year, the EMT will review the overall campus plan, individual department plans, and evaluate training and emergency notification literature.

SAFETY AT CURRY CAMPUS

Southwestern Oregon Community College has a branch campus in Curry County in Brookings. The proximity of the two campuses to the Pacific coast exposes them to the possibility of earthquake and the resulting tsunami. The predicted 9.+ earthquake will isolate all coastal communities from outside relief efforts and inflict heavy damage to infrastructure. The Curry Campus has minimal staff that includes no campus security personnel.

PRE-CRISIS

Southwestern includes emergency response preparation for our students, faculty members, and administrators who are studying and working at the Curry campus. Additional actions may include:

- Inviting local emergency officials to identify risks and participate in on-site briefings for students and faculty members.
- Determining if and when to send students home or cancel programs.
- Providing emergency information, including: what to do and where to go in the event of an emergency; names and local telephone numbers of all faculty members and administrators, 24-hour contact information for the home campus; telephone numbers and addresses of the local hospital, and local addresses and telephone numbers for each student.
- Advising students, faculty members and administrators they should understand that they share responsibility for their own safety and security. They should closely monitor local news reports and information.

Curry campus should ensure they maintain adequate emergency supplies and prepare to work with local emergency personnel.

DURING A CRISIS

While it is of course impossible to plan for all contingencies, it is essential to follow procedures that will allow for a rational and levelheaded response when emergencies do arise. The College has developed a series of specific procedures designed to safeguard the welfare of staff and students at each branch campus. The College's Emergency Management Team (EMT) is responsible for coordinating the management of emergencies affecting the Curry campus in cooperation with the staff at the Curry campus.

Up to date information concerning an ongoing crisis is vital in the decision-making process. On-site observers with contacts in local emergency agencies, and other sources in positions to know, can provide needed information on which these decisions will be based.

Normally, the highest-ranking administrator at the branch campus should transmit all on scene information that is gathered to the Vice President of Administrative Services or the Director of Campus Security.

SECURITY RESOURCES ON THE WEB

Many online resources offer helpful information about safety and security for faculty members, administrators, and students in coastal areas:

FEMA: <https://www.fema.gov/hazard-mitigation-planning#> FEMA: <https://www.ready.gov/tsunamis>

Southwestern Oregon Community College -- Emergency Contact Information

All Emergencies, Police, Fire, Medical Calls, etc. 911

All Non-emergencies, Police, Fire, Medical Calls, etc. 541-297-4200 – Campus Security

Emergency Management Team Procedures

NOTIFICATION/COMMUNICATION WITH EMT AND EMERGENCY OPERATION CENTER

In the event of an emergency situation, members of the EMT will be notified by the VP of Administrative Services. In his/her absence, the President will convene the group to assess the situation. The Vice President of Administrative Services will notify the Emergency Management Team about the gathering point for the group, or Emergency Operations Center (EOC).

The Emergency Operations Center will be equipped with telephones, printer, fax machine, clip boards, ICS forms, flip chart and/or a white board, markers, pens, pencils, television with cable hookup, radio or walkie talkies, and extra batteries. A hard copy of the Emergency Response Plan, Campus Departmental Plans and checklists will be kept in the Emergency Operations Center. Additional supplies should include campus and building maps, location of personnel assembly points, electrical, gas and water shutoff locations, Safety Data Sheets book and a master set of keys.

EMT members should bring available laptop computers with them to the EOC. Supplies (as listed above) will be transported to the designated location by the appropriate resource person if needed. In the event that security is required for the command center, Campus Security will provide this service.

ON-SITE COMMAND POST

In an emergency, Southwestern Oregon Community College personnel, and local agency representatives (e.g., Fire Department), will typically be at the site of the emergency to respond accordingly. In these situations, an "on-site Command Post" will be established by Campus Security. Normally, the Director of Campus Security (or designee) will serve as the Incident Commander of this Command Post. The Director of Campus Security may transfer the Incident Commander position to a trained Incident Commander from the local fire or police units. On-site personnel should provide the Director of Campus Security with regular updates. The Director of Campus Security will relay status reports to the VP of Administrative Services. The Emergency Management Team will be in regular contact with the on-site Incident Commander to gather relevant and important information and pass on decisions and information to on-site personnel.

INFORMATION GATHERING

Below are listed five general categories of emergency incidents and some sources of information for each. The department that would take the lead in the investigation/information gathering is also shown. Information gathered will be documented.

Criminal Incidents Campus Security (e.g., suicides, assaults, shootings, fires, etc.)

- Sources of information would be the results of evidence collection, interviews, background checks, information obtained from other investigative techniques, and recommendations from consultants and on-campus professionals.
- Investigations could be coordinated with the Coos County Sheriff's Office and various Federal, State and local police agencies.

Environmental Incidents – Facilities (e.g., HazMat spills, indoor air quality problem, fires, petroleum spills, etc.)

- Sources of information would be the results of evidence collection, interviews, blueprint review, information obtained from other investigative techniques, and recommendations from consultants and on-campus professionals. Several formal response plans are already in place that directs an organized response to many incidents.
- Investigations could be coordinated with the Coos Bay Fire Department HazMat team, and various Federal, State and local agencies.

Health Related Incidents - Nursing (e.g., communicable diseases, etc.)

- Sources of information would be the results of medical testing, interviews, review of medical records, information obtained from other investigative techniques, and recommendations from consultants and on-campus professionals.
- Coordinate investigation with various Federal, State and local health agencies.

Infrastructure Incidents – Facilities (e.g., sub-station fire, unplanned electrical shutdown, roof collapse, water tank leak, etc.)

- Sources of information would be the results of testing, interviews, review of records and blueprints, information obtained from other investigative techniques, and recommendations from consultants and on-campus professionals.
- Coordinate investigation with local Pacific Power utility companies, and various Federal, State and local agencies.

Miscellaneous Incidents - Multi-departmental response; the lead department to be determined by EMT depending upon the circumstances of the incident (e.g. weather related or natural disasters - snow, ice, wind, tsunami, earthquake, etc.)

- Sources of information would be the results of weather forecasts, NOAA radios, interviews, review of records, information obtained from other investigative techniques, recommendations from consultants and on-campus professionals.

COMMUNICATION WITH THE CAMPUS COMMUNITY

When a crisis initially occurs, basic information will be provided to the Operator at the switchboard by the Emergency Management Team to respond to incoming phone calls and inquiries. The emergency communications system may also be utilized to reach the College population.

The following strategies can/will be utilized in a crisis to communicate with the campus community:

- For faculty and staff, voice mail can be utilized to send out basic information regarding a crisis.
- If the campus network is available for use, an emergency alert message could be sent to all faculty, staff, and students via e-mail, sms, voice message or voicemail.
- If voice and data capabilities are not available, the Emergency Operations Center is equipped with a shortwave radio and will be used to communicate to county agencies. Runners will be used to disseminate communiqués from the EMT and where offices and individuals could go to receive information about the emergency. Printed information will be made available at this location for distribution on-campus.
- All Campus Security patrol vehicles have loudspeaker capability. Patrol vehicles can be used to announce messages on campus at various locations to alert the community to the emergency and what steps should be taken.
- RAVE software is used to notify the campus in the event of a significant emergency or dangerous situation involving an immediate threat on campus. After conferring with Campus Safety, outside agency personnel involved in the emergency, and/or the person(s) reporting the emergency, the appropriate EMT personnel listed above will authorize the release of a message using RAVE to the segment(s) of campus that are affected by the emergency.

EMERGENCY MANAGEMENT TEAM TRAINING

Emergency Management Team members are required to read and understand the FEMA ICS 100 Incident Command System on line documents.

ICS 100 training materials are available on the EMT file share. ICS 200 training materials are available on the EMT files share.

DEPARTMENTAL EMERGENCY / DISASTER PLANNING

Departments will develop emergency response plans and checklists. These plans may be simple evacuation plans or may contain detailed instructions for preservation of life, health safety and data protection. All should contain evacuation / assembly locations, head count and assessment of their area. Department plans should contain action plans for providing department expertise to assist with managing and containing the emergency. This information will be communicated to the Emergency Management Team. Business continuity after the emergency should also be a consideration in plan development.

Departments include:

- Integrated Technology Services
- Business Services
- Human Resources
- Student Housing
- OCCI
- Athletics and the Student Rec Center
- Facilities Services
- Office of Instruction
- Coaledo Biology and Chemistry areas
- Dining Services
- Administrative Services and Tioga building
- Family Center
- Bookstore
- Counseling
- Nursing
- First Stop Center
- Financial Aid

Department heads will submit their department plan to the Vice President of Administrative Services who will approve the plan and incorporate it in the overall Emergency Response Plan. g

Appendix B: Earthquake/Tsunami

- Keep calm and stay where you are. Most injuries during an earthquake occur when individuals decide to enter or exit buildings.
- If you are indoors, take cover under a desk, table or bench, against an inside wall or wood framed doorway, and hold on. Stay away from glass, windows, outside doors or walls and anything that could fall and hurt you, such as lighting, furniture or fixtures.
- If you are outdoors, stay there. Move away from buildings, trees, street lights and utility wires.
- If you are in a crowded public place or classroom, do not rush for a doorway as other people will have the same idea. Take cover, and move away from objects that may fall.
- Do not be surprised if the electricity goes out or if the sprinkler system or elevator or fire alarms go on as this often happens. **DO NOT USE ELEVATORS.**
- Be prepared for aftershocks, which have been known to occur from less than one minute after the initial shock to more than one year later. Most aftershocks occur 24 to 48 hours later. These secondary shock waves are usually less violent than the main earthquake, but can be strong enough to do additional damage to weakened structures.
- Do not use candles, matches, or open flames either during or after the earthquake because of possible fire danger.
- If told to evacuate, follow Evacuation Procedures.



IF YOU FEEL AN EARTHQUAKE, A TSUNAMI MAY BE COMING:

Tsunami

- Drop, cover, hold until the earthquake is over
- Move immediately inland to high ground and away from low-lying coastal areas
- Follow evacuation route signs
- Do not wait for an official warning
- Go on foot if at all possible
- Do not pack or delay
- Do not return to the beach – large waves may continue to come onshore for several hours
- Wait for an “all clear” from local emergency officials before returning to low-lying areas.



Know your local tsunami hazard zones and evacuation routes. Your work area should have a current tsunami evacuation zone map. For a map of your specific residence, [CLICK ON HTTP://NVS.NANOOS.ORG/TSUNAMIEVAC](http://NVS.NANOOS.ORG/TSUNAMIEVAC)

Southwestern Oregon Community College does not discriminate on the basis of race, color, gender, sexual orientation, marital status, religion, national origin, age, disability status, gender identity, or protected veterans in employment, education, or activities as set forth in compliance with federal and state statutes and regulations. j

REGULAR AND SUBSTANTIVE INTERACTION (RSI) IN ONLINE CLASSES

It is the Administrative policy of the Southwestern Oregon Community College District that the College community in cooperation with the Office of Instruction shall adhere to online course requirements with regards to initiated instructor interactions and demonstrated active and engaged instructor online presence, hereafter referred to as Regular and Substantive Interaction (RSI).

RSI is an instructional standard for online courses at Southwestern and designed to create positive learning environments for students and faculty, as well as adhere to accreditation, state, and federal mandates. **Failure to observe the requirements of RSI could result in required professional development to resume online teaching privileges.**

The required elements of RSI are as follows:

COURSE INTRODUCTION AND WEEK ONE

A personal welcome message or video from the instructor is available when the course opens.

- Message should introduce the course and the instructor and be similar to face-to-face course introductions.
- Message should address course content, what students can expect, tips for being successful in the course, etc.
- Instructor may also schedule synchronous meetings with students during the first week of the course.

Instructor is active in the course during week 1 of the term. Active is defined as recorded instructor access in the course shell **and** responses to student inquiries. To meet this requirement, there must be evidence of the following:

- Recorded instructor access in the course shell at least **twice** during week 1 (Monday-Sunday).
- First instructor activity (either course access or response to student inquiries) took place **no later than** Wednesday of week 1.

WEEKLY ASSIGNMENTS AND ANNOUNCEMENTS

Course design requires student-instructor interaction at minimum of once per week, or as needed to respond to student questions and/or emails, during the course of the term. Weekly interaction happens on a consistent day of the week; the schedule is communicated to students at the beginning of the course.

This requirement could be met by EITHER of the following:

- Weekly course announcements that address course content, expectations of students, tips for success, etc.
- At least one assignment or graded item is due each week.

AND

- Weekly feedback can be demonstrated by any of the following: discussion boards with active instructor comments/participation, recorded lectures or tutorials, instructor emails with comments about academic material or specific comments on student work, instructor comments on tests/quizzes, study tips or review guides, or online meetings/conversations (via Zoom, Skype, etc.).

COMMUNICATION

Policy (listed on syllabus or elsewhere in course) includes ALL of the following information:

- How to contact instructor (LMS interactions only).
- Policy for response time to students' questions within 24-48 hours of due date or receipt of email.
- Policy for weekend communication (Will you check for email on Saturday/Sunday and/or will you respond to student requests in a certain timeframe?)
- As much as possible, the LMS is to be used to capture communications. To include private messaging, private comments on discussion posts, and the blog for non-sensitive communications.
- All faculty-initiated emails shall go through the LMS system.
- For course-related work faculty should use a student's SWOCC email (@email.socc.edu) from Outlook or Webmail and refrain from using personal email accounts.

Adopted as Administrative Policy/Procedure: June 5, 2019

APP 10020

DEDICATED FUTURE USE OF UNDEVELOPED COLLEGE PROPERTY

It is the Administrative procedure of the Southwestern Oregon Community College District to dedicate the future use of undeveloped College property to activities that directly support the educational services, programs and students attending the College.

Adopted by Board of Education:

Procedure #1.076 November 16, 1992

Changed to Administrative Procedure January 22, 1996

Reviewed January 29, 2014 (Formerly Admin. Policy 5.016)

SECURITY AND ACCESS

It is the Administrative procedure of the Southwestern Oregon Community College District that the security staff hired by the College is primarily responsible for the physical security of the campus buildings and facilities.

Individuals on campus (students, employees, visitors, etc.) should take active responsibility for their personal property. The College will provide information on crime awareness and prevention in accordance with Administrative Procedure *Security and Crime Prevention Programs*.

Should the need arise to contact emergency assistance from campus phones: to reach Campus Security, pick up a black emergency phone or dial 541-297-4200, or dial 9911 from an office phone to reach the 911 operator.

All College security personnel are equipped with portable radios at all times enabling them to dial 911 from any location on campus to contact Coos Bay Police Department to respond to criminal actions or other agencies for on campus emergencies (fire, accident, etc.). In addition, security personnel will render any individual assistance they are able to provide.

College personnel shall cooperate fully with local, state and federal law enforcement agencies as they seek to protect life and property, to prevent anti-social behavior, and to preserve a secure environment in the locations where students reside on campus, classes are held, and offices are located. It is the responsibility of students and staff to report all crimes, even those considered minor, to the Campus Security Department. All suspicious activity and other emergencies should be reported to the Campus Security Department or another administrator as promptly as possible.

The College will maintain its grounds and lighting to ensure the campus is as secure as possible.

Security for student groups, College affiliated groups and community use of College buildings and facilities is covered by College procedures *Access to College Facilities*, and *Approval of College Affiliated Groups* respectively.

The College shall develop campus security procedures and individual crime awareness/prevention procedures.

Any security issues or concerns about security will be handled by the Vice President of Administrative Services.

Adopted by Board of Education:
Procedure # 1.070 April 20, 1992
Changed to Administrative Procedure January 22, 1996
Reviewed March 14, 2013 (Formerly Admin. Policy 5.002)
Revised: December 7, 2016

SECURITY AND CRIME PREVENTION PROGRAMS

It is the Administrative procedure of the Southwestern Oregon Community College District that annually students and employees will be informed about:

1. Campus Security Procedures and Practices and,
2. Crime Awareness and Prevention.

Informational brochures, website, posters, student handbooks, employee handbooks, student orientation or in-service training programs will be available to students and employees.

Adopted by Board of Education:

Procedure # 1.072 April 20, 1992

Changed to Administrative Procedure January 22, 1996

Reviewed March 14, 2013 (Formerly Admin. Policy 5.000)

ACCEPTABLE USE OF INFORMATION TECHNOLOGY RESOURCES

This procedure is designed to state the acceptable use of computer systems, networks, and other Integrated Technology resources at Southwestern Oregon Community College.

The College community is encouraged to make use of Information Technologies in support of educational and administrative purposes. The College supports access to information with numerous views for the interest, information, and enlightenment of students, faculty, and staff.

Consistent with this document, the College supports the use of Integrated Technology resources in a manner that recognizes both the rights and the obligations of academic freedom.

The College recognizes the importance of copyright and other protections afforded to the creators of intellectual property. Users are responsible for making use of software and other Integrated Technology resources in accordance with copyright and licensing restrictions. Using Integrated Technology resources in a manner violating these protections, or furthering the unauthorized use or sale of protected intellectual property, is prohibited and against the law. Violation of this could result in criminal prosecution.

The College cannot protect individuals against the receipt of potentially offensive material. Those who use electronic communications occasionally may receive material they might find offensive. Those who make personal information available about themselves through the Internet or other electronic media may expose themselves to potential invasions of privacy.

Integrated Technology resources are provided to support the College's scholarly, educational, and administrative activities. Integrated Technology resources are limited, and should be used wisely and with consideration for the rights and needs of others. Unless written proof of need for scholarly activities can be provided, transmission or display of pornography is expressly prohibited.

Users are expected to use computer and network resources in a responsible manner. Users should take appropriate precautions to ensure the security of their passwords and prevent others from obtaining access to their computer resources.

It is illegal to share or use files, software and other work creations that are protected under copyright law, without explicit permission from the copyright holder. This includes, but is not limited to all copyrighted audio, video and game files, and published software that is licensed. Users who violate copyright laws may be subject to College disciplinary action and/or prosecution under state and federal guidelines.

Users may not encroach on others' use of computer resources. Such actions include, but are not limited to, tying up computer resources with trivial applications or excessive game playing, sending frivolous or excessive messages, including chain letters, junk mail, and other similar types of broadcast messages, or using excessive amounts of storage.

PROHIBITED USE

The following behaviors are prohibited while using College Integrated Technology resources, including computers and networks owned or operated by the College, or to which the College is connected:

1. Modifying system or network facilities, or attempting to crash systems or networks;
2. Using personal software on College computers;
3. Using network resources which inhibit or interfere with the use of the network by others.
4. Using, duplicating or transmitting copyrighted material without first obtaining the owner's permission, in any way that may reasonably be expected to constitute an infringement, or that exceeds the scope of a license, or violates other contracts;
5. Tampering with software protections or restrictions placed on computer applications or files;
6. Using College Integrated Technology resources for personal for-profit purposes;
7. Subverting restrictions associated with computer accounts;
8. Using Integrated Technology resources to obtain unauthorized access to records, data, and other forms of information owned, used, possessed by, or pertaining to the College or individuals;
9. Accessing another person's computer account without permission. Users may not supply false or misleading data, or improperly obtain another's password in order to gain access to computers or network systems, data or information. Obtaining access to an account name or password through the negligence or naiveté of another is considered to be a specifically prohibited use;
10. Intentionally introducing computer viruses, worms, Trojan Horses, or other rogue programs into Integrated Technology resources that belong to, are licensed to, or are leased by the College or others;
11. Physically damaging Integrated Technology resources;
12. Using, or encouraging others to use, Integrated Technology resources in any manner that would violate this or other College policies or any applicable state or federal law; and
13. Falsely reporting or accusing another of conduct that violates these rules without a good faith basis for such an accusation;
14. Intentional transmission or display of unwanted messages, information, or graphic images which create a hostile school or work environment for the recipient are inappropriate uses of College computer resources;
15. Allowing non-approved users access to information on the College network that do not have a legitimate need and right to know specific information; and
16. Sharing or allowing others to use your logon and password.
17. Connecting networking equipment including, but not limited to servers, routers, hubs and switches, and wireless access points to the campus network without written authorization from the Office of Integrated Technology and Services

Adopted: June 27, 2005

Revised: March 4, 2009

Revised: December 1, 2011

Reviewed March 14, 2013 (Formerly Admin. Policy 4.011)

Revised: May 7, 2014

Reviewed: August 7, 2019

REPORTING CRIMINAL ACTIONS AND OTHER EMERGENCIES

It is the Administrative procedure of the Southwestern Oregon Community College District that all criminal actions and other emergencies occurring on campus will be reported to the Office of Administrative Services.

All criminal actions and other emergencies that occur during off campus College activities will be reported by the College representative to the Office of Administrative Services.

All information of criminal actions will be forwarded to the Coos Bay Police Department.

The College will collect and disclose all information IAW Pub. L. 102-26 Title II: Crime Awareness and Campus Security Act of 1990 and Pub.L. 101-542.

In addition to the annual statistical disclosure, the College will make timely reports to the campus community on crimes reported to the Office of Administrative Services and local law/police agencies that are considered to be a threat to other students and employees. This will be done to aid in the prevention of similar crimes.

The College shall develop procedures to ensure prompt and accurate reporting and the correct use of the appropriate forms. These procedures will be distributed to employees and students.

Adopted by Board of Education:

Procedure # 1.068 April 20, 1992

Changed to Administrative Procedure January 22, 1996

Revised March 13, 2013 (Formerly Admin Policy 5.004)

BOARD POLICY

Southwestern Oregon Community College

BP: 9020

FACILITIES PLANNING

The Board will analyze appropriate data to evaluate the College's facilities needs on a long-range basis. Such data will include, but not be limited to, enrollment projections, anticipated changes in the instructional program, analysis of community building plans, analysis of sites and evaluation of present facilities.

The Board shall analyze a five-year capital plan documenting new construction, remodeling, maintenance, equipment and projects needed to meet the Americans with Disabilities Act, including requirements of the projects costs of meeting these needs.

END OF POLICY

Legal Reference(s):

ORS 341.290(2)

OAR 589-003-0100

CHEMICAL HYGIENE PLAN

GENERAL INFORMATION

The Chemistry/Life Science Department at Southwestern Oregon Community College has developed the following Chemical Hygiene Plan for use by our employees. The intent of this plan is to identify safety and health guidelines to be used when working with hazardous chemicals or conducting hazardous processes.

The plan will be updated when new chemicals, processes, or additional information about hazards are received by the department.

The Chemical Hygiene Officer (CHO) is the employee who has been given added responsibility for the overall safety and health program for these laboratories. The CHO is listed below and has been selected because of her/his knowledge of the processes and the occupational safety and health aspects of working with the chemicals in our labs.

Chemical Hygiene Officer: [Mike Springer](#)

The Chemical Hygiene Plan will be available in the following locations:

- Coaledo 2 – Chemistry Lab
- Coaledo 6 – Biology Lab
- Facilities

Safety Data Sheets will be available in the following locations:

- Coaledo 2 – Chemistry Lab
- Coaledo 3 – Biology Lab

TABLE OF CONTENTS

Section I	
General Laboratory Safety and Health Procedures	3
Chemistry Lab/Biology Lab	
Specific Chemical Hazards	4
Flammable/Combustible Materials	
Corrosive Materials – Acids and Bases	
Ethers	
Reactive Metals	
Compressed Gases	
Biohazard – Level I	4
Carcinogens	5
Section II	
Controls	6
Personal Protective Equipment	6
Hygiene Practices.....	6
Fire Protection	7
Vented Hoods	7
Spills.....	7
Section III	
Exposure Monitoring	8
Section IV	
Medical Assurance Program	9
Section V	
Prior Approval Procedures.....	10
Section VI	
Carcinogens	11
Section VII	
Employee Training	12

Section I

GENERAL LABORATORY SAFETY AND HEALTH PROCEDURES

Chemistry Lab/Biology Lab

1. Safety glasses or goggles must be worn when appropriate to guard against laboratory accidents. If contact lenses are worn, goggles must be worn without exception.
2. Wear old clothing or use lab coat or apron. No shorts or short skirts.
3. Wear only shoes that shed liquids. Sandals or canvas shoes are not permitted.
4. Tie back long hair near open flames.
5. Wash hands and arms thoroughly before leaving the lab. Whenever the skin comes into contact with laboratory chemicals, wash thoroughly and quickly with soap and water. Use eyewash fountain to flush chemicals from eye. If a chemical is spilled over a large part of the body, use the safety shower and flood the affected area for 5 minutes. Remove contaminated clothing.
6. Report all accidents or injuries, even minor. Complete an [Incident/Injury Report](#) found on the Administrative Services webpage. Submit to Administrative Services within 24 hours or sooner.
7. No one should ever work alone in the laboratory. An instructor should be present. If you must work alone, tell someone that you are going to be in the lab, so they can periodically check on your safety.
8. No smoking, eating, drinking, or chewing permitted in the labs. Keep pencils and other objects out of mouth. Chemicals or microorganisms may enter through mouth or lungs.
9. If the release of a toxic or hazardous substance may occur, the work should be done in a fume hood designed for the chemical released.
10. Chemicals should be handled carefully at all times, using appropriate containers or carrying devices.
11. Label secondary containers.
12. Don't set up equipment that blocks the means of egress from the lab.
13. Open containers should be closed after use, and unneeded reagents should be returned to storage.
14. Know location and use of fire equipment in the lab. Be aware of posted emergency exit routes.
15. All broken glassware is to be put in a special box labeled "broken glass".
16. Follow good housekeeping practices. Clean up after lab work is completed, including cleaning of microscope (if used). Wipe off tabletop with disinfectant provided.
17. All new chemicals will be dated and entered into inventory when they first arrive.

SPECIFIC CHEMICAL HAZARDS

- A. Flammable/Combustible Materials
 1. Store all flammable liquids in appropriate cabinet or explosion-proof refrigerator.
 2. Heat flammables using a heat mantle or steam bath, never a direct flame.
 3. Work with flammable/combustibles should be performed in fume hoods.
 4. Work only in fire protected areas with portable fire extinguishers readily available.
 5. No source of ignition should be in the vicinity of flammable liquids, either as part of the experiment or simply nearby.
 6. Store flammables in glass or plastic.

- B. Corrosive Materials – Acids and Bases
 1. Always wear goggles, gloves, and apron when handling or working with corrosives.
 2. Know how to use eyewash station and deluge shower.
 3. Always add the concentrate to the diluted solution or water. Never add water to acid.
 4. Store acids with acids, bases with bases. Exception: Sulfuric Acid and Nitric Acid are incompatible.
 5. Keep containers not in use in storage. Store all corrosives on lower shelves.

- C. Ethers
 1. Mark the date of receipt on all ether containers.
 2. Ether to be stored in explosion-proof refrigerator in equipment room.
 3. Dispose of any unused ethers in open containers immediately.

- D. Reactive Metals
 1. Store reactive metals under proper suppression materials such as mineral oil for sodium.
 2. Fire extinguishers in labs with sodium should be Class D.
 3. Use barriers to protect others when working with sodium in the lab.

- E. Compressed Gases
 1. All gas cylinders must be secured to prevent tipping over.
 2. Gas cylinder storage must be away from flammable/corrosive fumes or chemicals, direct heat, open flames or sparks and must be located in a cool, dry place.
 3. Incompatible gases must be segregated.
 4. When gas cylinders are not in use, a valve cap should be securely in place to protect the valve stem and valve.

BIOHAZARD – LEVEL 1 (MICROBIOLOGY)

1. Access to the laboratory should be limited or restricted, at the discretion of the laboratory instructor, when experiments are in progress.
2. Work surfaces are to be decontaminated after each lab is completed. Any spill of viable material is to be decontaminated immediately.
3. All contaminated liquid or solid wastes must be appropriately decontaminated prior to disposal.
4. Pipette pumps must be used. Mouth pipetting is prohibited.
5. No eating, drinking or smoking in the work area.
6. Hands must be washed with a disinfectant soap after handling viable materials and before leaving the lab.
7. Lab coats or aprons should be worn over street clothing while working in the lab. These articles should not be worn away from the lab.
8. All “sharps” and blood contaminants are to be put in a special box labeled “sharps”.

9. Any lab procedure using body fluids to be carried out only by individual on own samples.
10. Use gloves when handling preserved specimens.

CARCINOGENS

The following regulated carcinogenic materials are in stock:

benzene
benzidine
arsenic
formaldehyde 37%

1. Protocols must be reviewed by CHO before use of a regulated carcinogen or prior to purchase of a carcinogen not currently in stock.
2. The carcinogen must be isolated in a specific work area, and access to that area must be restricted to designated personnel.
3. Use of carcinogens in labs should be limited and good controls should be provided.
4. Records of personnel working with carcinogens must be kept and maintained for thirty (30) years.

Section II

CONTROLS

PERSONAL PROTECTIVE EQUIPMENT

Eye Protection

1. Goggles will be provided for all persons present in locations where chemicals are stored or handled. Goggles must meet ANSI standard Z 87.1.
2. Where procedures are being used in which chemicals could splash and injure the eye, goggles must be used. These procedures shall include working with corrosives, explosives, and highly toxic chemicals. Goggles may be worn during the initial dissection phase of specimens in biology and anatomy lab.
3. A face shield shall be worn when maximum protection from flying particles or explosions may occur.
4. Goggles will be sanitized in appropriate UV cabinet between uses.

Hand Protection

1. Before using any hazardous chemical that may spill on your skin, review the MSDS and determine the appropriate glove material.
2. Gloves will be worn when handling materials likely to puncture, cut or irritate the hand.
3. Heat resistant gloves must be worn when handling hot materials.

Body Protection

1. Lab coats or aprons must be worn when working with chemicals that may spill or splash.
2. Any lab coat or apron contaminated with a highly toxic chemical must be disposed of properly.

HYGIENE PRACTICES

Eyewash and Shower

1. An emergency shower is available in the chemistry lab for use in the event of a major spill.
2. An eyewash station is available in the labs.
3. All personnel should be trained in the location and use of the safety shower and eyewash facilities.
4. These facilities will be tested at least once every six months and be maintained in good working order.

Personal Hygiene

1. Wash hands thoroughly before leaving lab.
2. Protective lab clothing must be properly laundered. Do not leave the lab facility with the protective garments.

FIRE PROTECTION

1. There are fire extinguishers – Class D – located in the front of the biology lab and in both the front and back areas of the chemistry lab.
2. All persons should receive training in the use of these fire extinguishers prior to beginning work in the labs.
3. Evacuation routes are posted at the door to each lab. There is one primary exit door to each room. Windows open outwards and may also be used as secondary escape routes.
4. Primary containment procedures will include:
 - a. Remove source of fuel by turning off main gas valve.
 - b. Smother fire using CO₂ extinguisher.
5. In the event of a fire in which primary containment procedures do not work:
 - a. The lab will be evacuated.
 - b. The fire alarm bell at the outside exit door will be activated.
 - c. Campus security will be notified.
6. Evacuation drills will be conducted at least annually.

VENTED HOODS

1. When laboratory work may result in implosions or explosions, the fume hoods will be used.
2. Any transfer of chemicals where dust contamination or fume contamination is possible must be done using the fume hoods. See individual MSDS.
3. Regular maintenance of the fume hoods will be scheduled by the Chemical Hygiene Officer yearly. Points to check will include obstruction of slots and concealed space between slots, leaks, or obstructions in ducts, and the condition of the fan.
4. Smoke tubes will be used to evaluate hood face velocity and outleaks in the duct system. This routine evaluation will be completed yearly.

SPILLS

1. Accidental release or spills of chemicals must be cleaned up immediately under the supervision of persons who are knowledgeable in the hazards involved and the precautions to be taken.
2. Use the spill kits in the chemistry lab to contain larger spills.
3. Evacuate the room if the spill has presented a vapor or fire hazard.

Section III

EXPOSURE MONITORING

An area exposure-monitoring program will be conducted for possible health hazards in the biology lab during dissection of preserved specimens.

Initial monitoring will be conducted for formaldehyde gas and follow-up monitoring will be done based on the exposure levels found and/or if experimental procedures change.

Monitored levels will be recorded, this record to be maintained by the CHO.

Section IV

MEDICAL ASSURANCE PROGRAM

If any one of the following events occurs, a medical examination must be given to an employee who requests testing under the OSHA rules:

1. Whenever an employee develops signs or symptoms associated with a hazardous chemical to which the employee may have been exposed in the laboratory, the employee shall be provided an opportunity to receive an appropriate medical examination.
2. Where exposure monitoring reveals an exposure level routinely above the PEL for formaldehyde, medical surveillance shall be established for the affected employee as prescribed by OSHA.
3. Whenever an event takes place in the labs such as a spill, leak, explosion or other occurrence resulting in the likelihood of a hazardous exposure, the affected employee shall be provided with the opportunity for a medical consultation. Such consultation shall be for the purpose of determining the need for a medical examination.

When an examination is performed because of the three above listed events, the following information must be gathered and provided to the physician:

1. The identity of the hazardous chemicals to which the employee may have been exposed.
2. A description of the conditions under which the exposure occurred including: quantitative exposure data, if available.
3. A description of the signs and symptoms of exposure that the employee is experiencing, if any.

The employer shall be provided with a written opinion from the examining physician that shall include the following:

1. Any recommendations for further medical follow-up.
2. The results of the medical exam and any associated tests.
3. Any medical condition that may be revealed in the course of the examination that may place the employee at increased risk as a result of exposure to a hazardous chemical found in the work place.
4. A statement that the employee has been informed by the physician of the results of the consultation or medical examination and any medical condition that may require further examination.

Section V

PRIOR APPROVAL PROCEDURES

Any non-routine type of work done in the labs must receive prior approval. This would include use of highly toxic chemicals, extremely hazardous processes, or procedures or processes that have resulted in uncontrolled reactions.

The prior approval process shall include:

1. The project must be planned and developed in writing.
2. An inventory of chemicals to be used must accompany the plan.
3. A check must be made to ensure that all the safety equipment required is available.
4. Develop a spill response plan (for any new chemical added to inventory).
5. Assure proper waste disposal.

Section VI

CARCINOGENS

Only authorized, trained employees are permitted to enter and/or work in the regulated chemical stockrooms where carcinogens are stored. Employees who work with these chemicals shall receive special training in the hazards and control systems. Personal protective equipment will be worn at all times when handling carcinogenic chemicals.

Section VII

EMPLOYEE TRAINING

Each laboratory employee shall receive training at the time of initial assignment to a work area where hazardous chemicals are present and prior to assignments involving new exposure situations.

Refresher training on the Chemical Hygiene Plan will be conducted at least annually for all employees in the labs.

Training to include:

1. Explanation of occupational exposures to hazardous chemicals standards, PEL's for OSHA regulated substances and exposure monitoring.
2. Location and availability of Chemical Hygiene Plan.
3. Signs and symptoms associated with exposure to hazardous chemicals used in the laboratory.
4. Location of reference materials, MSDS.
5. Known physical and health hazards of chemicals in the work area. Review of labeling codes and procedures.
6. Review use of personal protective equipment.
7. Review emergency response procedures.
8. Review safe lab procedures – i.e. glassware, heat mantles, equipment and procedures.

JANITORIAL SDS

Janitorial SDS Index

PRODUCT NAME	MANUFACTURER/ SUPPLIER/ DISTRIBUTOR	AREA/ ROOM	MSDS/SDS
BlueGlo	Spartan Chemical Company	136	SDS
CITRO SHIELD FURNITURE POLISH	Spartan Chemical Company	136	SDS
Clean by Peroxy	Spartan Chemical Company	136	SDS
Consume cleaning agent	Spartan Chemical Company	136	SDS
CR-2 ROACH & ANT KILLER	Spartan Chemical Company	136	SDS
Green Solution Industrial Cleaner	Spartan Chemical Company	136	SDS
GS Neutral Disinfectant Cleaner	Spartan Chemical Company	136	SDS
H2Orange Concentrate 117	EnvirOx	136	SDS
Hillyard Chalkboard & Whiteboard cleaner	Hillyard	136	SDS
Mildew Plus Mold and Mildew Remover	Walter E. Nelson	136	SDS
PURELL Hand Sanitizer	GOJO	136	SDS
REFRESH AZURE FOAM WASH	deb	136	SDS
Sani-Cloth Disinfecting Wipes	NicePak	136	SDS
Shineline Floor Prep	Spartan Chemical Company	136	SDS
Spartan Dust Mop/Dust Cloth Treatment	Spartan Chemical Company	136	SDS
Spartan GS Restroom Cleaner	Spartan Chemical Company	136	SDS
Spartan Spraybuff Water Based Shine Maintainer	Spartan Chemical Company	136	SDS
Spartan Super High Shine Stainless steel cleaner	Spartan Chemical Company	136	SDS
Spraybuff cleaning agent	Spartan Chemical Company	136	SDS
Squeege off Super Concentrate professional strength	Ettore Professional	136	SDS
Super-Sorb instant absorbant-Lemon	Fresh Products	136	SDS
Vinegar	Flinn Scientific	136	SDS



Safety Data Sheet

Spartan Chemical Company, Inc.

Revision Date: 30-Jul-2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: BLUE GLO
Product Number: 3111 , 3199
Recommended Use: Dish detergent
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:

Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

Serious Eye Damage/Eye Irritation: Category 2B

GHS Label Elements

Signal Word: Warning
Symbols: None
Hazard Statements: Causes eye irritation.

Precautionary Statements:

Prevention: Wash hands and any exposed skin thoroughly after handling.

Response:

-Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

-Specific Treatment:

Storage: Not Applicable

Disposal: Not Applicable

Hazards Not Otherwise Classified: Not Applicable

Other Information:

- May be harmful if swallowed.
- Inhalation of vapors or mist may cause respiratory irritation.
- Keep out of reach of children.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
water	7732-18-5	60-100
sodium (C14-16) olefin sulfonate	68439-57-6	7-13
sodium dodecylbenzene sulfonate	25155-30-0	7-13
sodium laureth sulfate	9004-82-4	1-5

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

-Eye Contact:	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
-Skin Contact:	Wash with soap and water. If skin irritation occurs: Get medical attention.
-Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
-Ingestion:	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.
Note to Physicians:	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire
Specific Hazards Arising from the Chemical:	Dried product is capable of burning. Combustion products are toxic.
Hazardous Combustion Products:	May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
Protective Equipment and Precautions for Firefighters:	Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Environmental Precautions:	Do not rinse spill onto the ground, into storm sewers or bodies of water.
Methods for Clean-Up:	Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

Advice on Safe Handling:	Handle in accordance with good industrial hygiene and safety practice. Do not mix or use with sodium hypochlorite (bleach) or other hypochlorites. Use with these chemicals may form compounds which cause skin irritation and sensitization. Wash thoroughly after handling.
Storage Conditions:	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:	None established.
Engineering Controls:	Provide good general ventilation. If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.
Personal Protective Equipment	
Eye/Face Protection:	Not required with expected use.
Skin and Body Protection:	Not required with expected use.
Respiratory Protection:	Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

General Hygiene Considerations: Wash hands and any exposed skin thoroughly after handling.
See 29 CFR 1910.132-138 for further guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Liquid
Color:	Blue
Odor:	Fresh
pH:	6.5-7.5
Melting Point / Freezing Point:	No information available.
Boiling Point / Boiling Range:	100 °C / 212 °F
Flash Point:	> 100 °C / > 212 °F ASTM D56
Evaporation Rate:	< 1
Flammability (solid, gas)	No information available.
Upper Flammability Limit:	No information available.
Lower Flammability Limit:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Specific Gravity:	1.04
Solubility(ies):	Soluble in water
Partition Coefficient:	No information available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

10. STABILITY AND REACTIVITY

Reactivity: This material is considered to be non-reactive under normal conditions of use.
Chemical Stability: Stable under normal conditions.
Possibility of Hazardous Reactions: Not expected to occur with normal handling and storage.
Conditions to Avoid: Extremes of temperature and direct sunlight.
Incompatible Materials: Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products: May include carbon monoxide, carbon dioxide (CO₂) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation.
Symptoms of Exposure:
-Eye Contact: Pain, redness and swelling of the conjunctiva.
-Skin Contact: Drying of the skin.
-Inhalation: Nasal discomfort and coughing.
-Ingestion: Pain, nausea, vomiting and diarrhea.
Immediate, Delayed, Chronic Effects
Product Information: Data not available or insufficient for classification.
Target Organ Effects: -Eyes. Respiratory System. -Skin.
Numerical Measures of Toxicity
The following acute toxicity estimates (ATE) are calculated based on the GHS document.
ATEmix (oral): 3178 mg/kg
ATEmix (dermal): 8478 mg/kg
ATEmix (inhalation-dust/mist): 197.9 mg/l

Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
water 7732-18-5	> 90 mL/kg (Rat)	Not Available	Not Available

sodium (C14-16) olefin sulfonate 68439-57-6	= 2310 mg/kg (Rat)	= 6300 mg/kg (Rabbit)	Not Available
sodium dodecylbenzene sulfonate 25155-30-0	= 438 mg/kg (Rat)	Not Available	Not Available
sodium laureth sulfate 9004-82-4	= 1600 mg/kg (Rat)	Not Available	Not Available

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
sodium (C14-16) olefin sulfonate 68439-57-6	Not Available	1.0 - 10.0: 96 h Brachydanio rerio mg/L LC50 static 12.2: 96 h Brachydanio rerio mg/L LC50 semi-static	Not Available	Not Available
sodium dodecylbenzene sulfonate 25155-30-0	Not Available	10.8: 96 h Oncorhynchus mykiss mg/L LC50 static	Not Available	Not Available

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT: Not Regulated

Proper Shipping Name: Non Hazardous Product

Special Provisions: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

IMDG: Not Regulated

Proper Shipping Name: Non Hazardous Product

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313

This product does not contain listed substances above the "de minimus" level

SARA 311/312 Hazard Categories

Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire Hazard: No

Sudden release of pressure hazard: No

Reactive Hazard: No

California Proposition 65

This product is not subject to warning requirements under California Proposition 65.

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards: 1	Flammability: 0	Instability: 0	Special: N/A
<u>HMIS</u>	Health Hazards: 1	Flammability: 0	Physical Hazards: 0	

Revision Date: 30-Jul-2015
Reasons for Revision: Section 14 and 15

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



Safety Data Sheet

Spartan Chemical Company, Inc.

Revision Date: 08-Aug-2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: CITRO SHIELD FURNITURE POLISH
Product Number: 6120
Recommended Use: Furniture polish
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:

Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

Flammable Aerosols Category 1
Gases Under Pressure Liquefied gas

GHS Label Elements

Signal Word:

Danger

Symbols:



Hazard Statements:

Extremely flammable aerosol.
Contains gas under pressure; may explode if heated

Precautionary Statements:

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Do not spray on an open flame or other ignition source
Pressurized container: Do not pierce or burn, even after use
Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal

Response:

-Specific Treatment:

See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

Storage:

Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C) Store in a well-ventilated place

Disposal:

Not Applicable

Hazards Not Otherwise Classified: Not Applicable

Other Information:	<ul style="list-style-type: none"> • May cause skin irritation. • May cause eye irritation. • May be harmful if swallowed. • Inhalation of vapors or mist may cause respiratory irritation. • Keep out of reach of children.
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3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
water	7732-18-5	60-100
polydimethylsiloxane	63148-62-9	1-5
isobutane	75-28-5	1-5
carnauba wax	8015-86-9	0.1-1

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

-Eye Contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
-Skin Contact:	Wash with soap and water. If skin irritation occurs: Get medical attention.
-Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
-Ingestion:	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.
Note to Physicians:	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Water spray (fog), Foam
Specific Hazards Arising from the Chemical:	Extremely flammable aerosol. Exposure to high temperature may cause containers to burst. Bursting aerosol containers may be propelled from fire at high speed.
Hazardous Combustion Products:	May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
Protective Equipment and Precautions for Firefighters:	Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Water may be used to cool closed containers to prevent pressure build-up and possible auto ignition or explosion when exposed to extreme heat.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Environmental Precautions:	Do not rinse spill onto the ground, into storm sewers or bodies of water.
Methods for Clean-Up:	Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

Advice on Safe Handling:	Handle in accordance with good industrial hygiene and safety practice. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Wash thoroughly after handling.
Storage Conditions:	NFPA 30B Level 1 Aerosol. Do not store in direct sunlight or above 122 F° / 50 C°. Exposure to high temperature may cause containers to burst. Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
isobutane 75-28-5	TWA: 1000 ppm	-	TWA: 800 ppm TWA: 1900 mg/m ³

Engineering Controls:

Provide good general ventilation.

If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.

Personal Protective Equipment

Eye/Face Protection:

Not required with expected use.

Skin and Body Protection:

Not required with expected use.

Respiratory Protection:

Not required with expected use.

If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

General Hygiene Considerations:

Wash hands and any exposed skin thoroughly after handling.

See 29 CFR 1910.132-138 for further guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Aerosol
Color:	White emulsion
Odor:	Lemon
pH:	6.5-7.5
Melting Point / Freezing Point:	No information available.
Boiling Point / Boiling Range:	99 °C / 210 °F (Product without propellant)
Flash Point:	< -18 °C / < 0 °F (Propellant-estimated)
Evaporation Rate:	< 1 (Butyl acetate = 1)
Flammability (solid, gas)	No information available.
Upper Flammability Limit:	No information available.
Lower Flammability Limit:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Specific Gravity:	0.96 (Product without propellant)
Solubility(ies):	No information available.
Partition Coefficient:	No information available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

10. STABILITY AND REACTIVITY

Reactivity:

This material is considered to be non-reactive under normal conditions of use.

Chemical Stability:

Stable under normal conditions.

Possibility of Hazardous Reactions:

Not expected to occur with normal handling and storage.

Conditions to Avoid:

Extremes of temperature and direct sunlight.

Incompatible Materials:

Strong oxidizing agents. Strong acids.

Hazardous Decomposition

May include carbon monoxide, carbon dioxide (CO₂) and other toxic gases or vapors.

Products:

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:

Eyes, Skin, Ingestion, Inhalation.

Symptoms of Exposure:

-Eye Contact:

Pain and redness.

-Skin Contact:

Drying of the skin.

-Inhalation:

Nasal discomfort and coughing.

-Ingestion: Pain, nausea, vomiting and diarrhea.
Immediate, Delayed, Chronic Effects
Product Information: Data not available or insufficient for classification.

Target Organ Effects: Central nervous system.

Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (dermal): 40650 mg/kg
 ATEmix (inhalation-gas): 6524651 mg/l

Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
water 7732-18-5	> 90 mL/kg (Rat)	Not Available	Not Available
polydimethylsiloxane 63148-62-9	> 17 g/kg (Rat)	> 2 g/kg (Rabbit)	Not Available
isobutane 75-28-5	Not Available	Not Available	= 658 mg/L (Rat) 4 h

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging: Pressurized container: Do not pierce or burn, even after use. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT:

UN/ID No: UN1950

Proper Shipping Name: Aerosols

Hazard Class: 2.1

Special Provisions: This product meets the exception requirements of section 49 CFR 173.306 as a limited quantity and may be shipped as a limited quantity.

IMDG:

UN/ID No: UN1950

Proper Shipping Name: Aerosols

Hazard Class: 2.1

Additional information: Limited Quantity

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313

This product does not contain listed substances above the "de minimus" level

SARA 311/312 Hazard Categories

Acute Health Hazard:	Yes
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden release of pressure hazard:	Yes
Reactive Hazard:	No

California Proposition 65

This product is not subject to warning requirements under California Proposition 65.

16. OTHER INFORMATION

NFPA	Health Hazards: 1	Flammability: 2	Instability: 0	Special: N/A
HMIS	Health Hazards: 1	Flammability: 2	Physical Hazards: 2	

Revision Date: 08-Aug-2016

Reasons for Revision: Section 2

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



Safety Data Sheet

Spartan Chemical Company, Inc.

Revision Date: 25-Apr-2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: CLEAN BY PEROXY
Product Number: 0035 , 0035R
Recommended Use: Cleaning agent
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:

Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

Skin Corrosion/Irritation: Category 2
Serious Eye Damage/Eye Irritation: Category 2A

GHS Label Elements

Signal Word:

Warning

Symbols:



Hazard Statements:

Causes skin irritation.
Causes serious eye irritation

Precautionary Statements:

Prevention:

Wash hands and any exposed skin thoroughly after handling.
Wear eye / face protection
Wear protective gloves

Response:

-Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

-Skin

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse

-Specific Treatment:

See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

Storage:

Not Applicable

Disposal:

Not Applicable

Hazards Not Otherwise Classified: Not Applicable

Other Information:

- May be harmful if swallowed.
- Inhalation of vapors or mist may cause respiratory irritation.
- Keep out of reach of children.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100
Undeceth-3	34398-01-1	1-5
Hydrogen Peroxide	7722-84-1	1-5
C9-11 Pareth-6	68439-46-3	1-5
Poly(oxy-1,2-ethanediyl) a,a-[[[3-(decyloxy)propyl]methyliminio]di-2,1-ethane diyl]bis[w-hydroxy-, branched, chlorides	68478-94-4	1-5
Citric Acid	77-92-9	0.1-1
Acid Blue 80	4474-24-2	<0.1
Fragrance	PROPRIETARY	<0.1

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

- Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- Skin Contact:** Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical attention.
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
- Ingestion:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.
- Note to Physicians:** Contains hydrogen peroxide. Ingestion may result in distention of esophagus and stomach.

5. FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:** Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire.
- Specific Hazards Arising from the Chemical:** Combustion products are toxic. Releases oxygen when heated to decomposition which may intensify fire.
- Hazardous Combustion Products:** May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
- Protective Equipment and Precautions for Firefighters:** Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
- Environmental Precautions:** Do not rinse spill onto the ground, into storm sewers or bodies of water.
- Methods for Clean-Up:** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

- Advice on Safe Handling:** Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

Storage Conditions:	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.
Incompatible Materials:	Sodium hypochlorite (or other hypochlorites). Metals.
Suggested Shelf Life:	Minimum of 2 years from date of manufacture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Hydrogen Peroxide 7722-84-1	TWA: 1 ppm	TWA: 1 ppm TWA: 1.4 mg/m ³ (vacated) TWA: 1 ppm (vacated) TWA: 1.4 mg/m ³	IDLH: 75 ppm TWA: 1 ppm TWA: 1.4 mg/m ³

Engineering Controls: Provide good general ventilation.
If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.

Personal Protective Equipment

Eye/Face Protection: Wear splash goggles.

Skin and Body Protection: Wear rubber or other chemical-resistant gloves.

Respiratory Protection: Not required with expected use.

If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

General Hygiene Considerations: Wash hands and any exposed skin thoroughly after handling.
See 29 CFR 1910.132-138 for further guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Liquid
Color:	Light blue
Odor:	Pleasant
pH:	Undiluted: 2.0-3.0 / Diluted 1:64: 3.0-5.5
Melting Point / Freezing Point:	No information available.
Boiling Point / Boiling Range:	100 °C / 212 °F
Flash Point:	> 100 °C / > 212 °F
Evaporation Rate:	< 1 (BuAc = 1)
Flammability (solid, gas)	No information available.
Upper Flammability Limit:	No information available.
Lower Flammability Limit:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Specific Gravity:	1.016
Solubility(ies):	Soluble in water
Partition Coefficient:	No information available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

10. STABILITY AND REACTIVITY

Reactivity: This material is considered to be non-reactive under normal conditions of use.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Contact with sodium hypochlorite (or other hypochlorites) releases chlorine gas.

Conditions to Avoid: Extremes of temperature and direct sunlight.

Incompatible Materials: Sodium hypochlorite (or other hypochlorites). Metals.

Hazardous Decomposition Products: May include carbon monoxide, carbon dioxide (CO₂) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation.
Symptoms of Exposure:
-Eye Contact: Pain, redness, swelling of the conjunctiva and blurred vision.
-Skin Contact: Pain, redness and cracking of the skin.
-Inhalation: Nasal discomfort and coughing.
-Ingestion: Pain, nausea, vomiting and diarrhea.
Immediate, Delayed, Chronic Effects
Product Information: Data not available or insufficient for classification.

Target Organ Effects: -Eyes. Respiratory System. -Skin.

Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral): 8069 mg/kg
 ATEmix (dermal): 39625 mg/kg
 ATEmix (inhalation-gas): 22943 mg/l
 ATEmix (inhalation-dust/mist): 66 mg/l

Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	Not Available	Not Available
Hydrogen Peroxide 7722-84-1	= 1518 mg/kg (Rat)	= 2000 mg/kg (Rabbit) = 4060 mg/kg (Rat)	= 2 g/m ³ (Rat) 4 h
C9-11 Pareth-6 68439-46-3	= 1400 mg/kg (Rat)	Not Available	Not Available
Citric Acid 77-92-9	= 3 g/kg (Rat)	Not Available	Not Available
Acid Blue 80 4474-24-2	= 3350 mg/kg (Rat)	Not Available	Not Available

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
Hydrogen Peroxide 7722-84-1	Not Available	16.4: 96 h Pimephales promelas mg/L LC50 18 - 56: 96 h Lepomis macrochirus mg/L LC50 static 10.0 - 32.0: 96 h Oncorhynchus mykiss mg/L LC50 static	Not Available	18 - 32: 48 h Daphnia magna mg/L EC50 Static
Citric Acid 77-92-9	Not Available	1516: 96 h Lepomis macrochirus mg/L LC50 static	Not Available	Not Available

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.
Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT: Not Regulated
Proper Shipping Name: Non Hazardous Product
Special Provisions: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

IMDG: Not Regulated
Proper Shipping Name: Non Hazardous Product

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313

This product does not contain listed substances above the "de minimus" level

SARA 311/312 Hazard Categories

Acute Health Hazard:	Yes
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden release of pressure hazard:	No
Reactive Hazard:	No

California Proposition 65

This product is not subject to warning requirements under California Proposition 65.

16. OTHER INFORMATION

NFPA	Health Hazards: 2	Flammability: 0	Instability: 1	Special: N/A
HMIS	Health Hazards: 2	Flammability: 0	Physical Hazards: 1	

Revision Date: 25-Apr-2019
Reasons for Revision: Section, 1

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



Safety Data Sheet

Spartan Chemical Company, Inc.

Revision Date: 04-Nov-2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: CONSUME
Product Number: 3097 , 3197
Recommended Use: Cleaning agent
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:

Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

Serious Eye Damage/Eye Irritation: Category 2A

GHS Label Elements

Signal Word:

Warning

Symbols:



Hazard Statements:

Causes serious eye irritation

Precautionary Statements:

Prevention:

Wash hands and any exposed skin thoroughly after handling.

Wear protective gloves

Wear eye / face protection

Response:

-Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

-Specific Treatment:

See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

Storage:

Not Applicable

Disposal:

Not Applicable

Hazards Not Otherwise Classified: Not Applicable

Other Information:

- May be harmful if swallowed.
- May cause skin irritation.
- Inhalation of vapors or mist may cause respiratory irritation.
- This product contains living bacterial spores. Avoid contact with open wounds, broken skin or mucus membranes.
- Keep out of reach of children.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100
C9-11 Pareth-6	68439-46-3	1-5
Xanthan Gum	11138-66-2	0.1-1
Ethyl Vanillian	121-32-4	<0.1
Vanillin	121-33-5	<0.1
Sodium Hydroxide	1310-73-2	<0.1
Hydrochloric Acid	7647-01-0	<0.1
Colorant	PROPRIETARY	<0.1
Methylchloroisothiazolinone	26172-55-4	<0.1
Methylisothiazolinone	2682-20-4	<0.1
Bacterial Spores	PROPRIETARY	<0.1

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

- Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- Skin Contact:** Wash with soap and water. If skin irritation occurs: Get medical attention. Apply a topical antiseptic agent to open wounds or broken skin.
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
- Ingestion:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.
- Note to Physicians:** Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:** Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire
- Specific Hazards Arising from the Chemical:** Dried product is capable of burning. Combustion products are toxic.
- Hazardous Combustion Products:** May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
- Protective Equipment and Precautions for Firefighters:** Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
- Environmental Precautions:** Do not rinse spill onto the ground, into storm sewers or bodies of water.
- Methods for Clean-Up:** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

Advice on Safe Handling:	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.
Storage Conditions:	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.
Suggested Shelf Life:	Minimum of 2 years from date of manufacture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Sodium Hydroxide 1310-73-2	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³
Hydrochloric Acid 7647-01-0	Ceiling: 2 ppm	(vacated) Ceiling: 5 ppm (vacated) Ceiling: 7 mg/m ³ Ceiling: 5 ppm Ceiling: 7 mg/m ³	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m ³

Engineering Controls:	Provide good general ventilation. If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.
Personal Protective Equipment	
Eye/Face Protection:	Wear splash goggles.
Skin and Body Protection:	Wear rubber or other chemical-resistant gloves.
Respiratory Protection:	Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.
General Hygiene Considerations:	Wash hands and any exposed skin thoroughly after handling. See 29 CFR 1910.132-138 for further guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Liquid
Color:	Green
Odor:	Pleasant
pH:	8.0-9.0
Melting Point / Freezing Point:	No information available.
Boiling Point / Boiling Range:	100 °C / 212 °F
Flash Point:	> 100 °C / > 212 °F ASTM D56
Evaporation Rate:	< 1 (BuAc = 1)
Flammability (solid, gas)	No information available.
Upper Flammability Limit:	No information available.
Lower Flammability Limit:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Specific Gravity:	1.00
Solubility(ies):	Soluble in water
Partition Coefficient:	No information available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

10. STABILITY AND REACTIVITY

Reactivity:	This material is considered to be non-reactive under normal conditions of use.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	Not expected to occur with normal handling and storage.
Conditions to Avoid:	Extremes of temperature and direct sunlight.

Incompatible Materials: Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products: May include carbon monoxide, carbon dioxide (CO₂) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation.
Symptoms of Exposure:
-Eye Contact: Pain, redness, swelling of the conjunctiva and blurred vision.
-Skin Contact: Drying of the skin.
-Inhalation: Nasal discomfort and coughing.
-Ingestion: Pain, nausea, vomiting and diarrhea.
Immediate, Delayed, Chronic Effects
Product Information: Data not available or insufficient for classification.

Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral): 46548 mg/kg
 ATEmix (dermal): 67559 mg/kg

Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	Not Available	Not Available
C9-11 Pareth-6 68439-46-3	= 1400 mg/kg (Rat)	Not Available	Not Available
Ethyl Vanillian 121-32-4	= 1590 mg/kg (Rat)	Not Available	Not Available
Vanillin 121-33-5	= 1580 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	Not Available
Sodium Hydroxide 1310-73-2	Not Available	= 1350 mg/kg (Rabbit)	Not Available
Hydrochloric Acid 7647-01-0	238 - 277 mg/kg (Rat)	> 5010 mg/kg (Rabbit)	= 1.68 mg/L (Rat) 1 h
Methylchloroisothiazolinone 26172-55-4	= 481 mg/kg (Rat)	Not Available	= 1.23 mg/L (Rat) 4 h

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
Ethyl Vanillian 121-32-4	Not Available	81.4 - 94.3: 96 h Pimephales promelas mg/L LC50 flow-through	Not Available	Not Available
Vanillin 121-33-5	Not Available	53 - 61.3: 96 h Pimephales promelas mg/L LC50 flow-through 88: 96 h Pimephales promelas mg/L LC50 static 57: 96 h Pimephales promelas mg/L LC50 semi-static	Not Available	Not Available
Sodium Hydroxide 1310-73-2	Not Available	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	Not Available	Not Available
Methylchloroisothiazolinone 26172-55-4	0.11 - 0.16: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 0.03 - 0.13: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	1.6: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	Not Available	4.71: 48 h Daphnia magna mg/L EC50 0.12 - 0.3: 48 h Daphnia magna mg/L EC50 Flow through 0.71 - 0.99: 48 h Daphnia magna mg/L EC50 Static

Persistence and Degradability: No information available.
Bioaccumulation: No information available.
Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.
Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT: Not Regulated
Proper Shipping Name: Non Hazardous Product
Special Provisions: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

IMDG: Not Regulated
Proper Shipping Name: Non Hazardous Product

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)
 All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313

This product does not contain listed substances above the "de minimus" level

SARA 311/312 Hazard Categories

Acute Health Hazard:	Yes
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden release of pressure hazard:	No
Reactive Hazard:	No

California Proposition 65

This product is not subject to warning requirements under California Proposition 65.

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards: 1	Flammability: 0	Instability: 0	Special: N/A
<u>HMIS</u>	Health Hazards: 1	Flammability: 0	Physical Hazards: 0	

Revision Date: 04-Nov-2019
Reasons for Revision: Section, 3, 8, 11, and, 12

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



Safety Data Sheet

Spartan Chemical Company, Inc.

Revision Date: 11-Aug-2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: CR-2 ROACH & ANT KILLER
Product Number: 6903
Recommended Use: Insecticide
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:

Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

Skin Corrosion/Irritation: Category 2
Serious Eye Damage/Eye Irritation: Category 2B
Skin Sensitization: Category 1
Specific Target Organ Toxicity (Single Exposure): Category 3
Aspiration Toxicity: Category 1
Flammable Aerosols: Category 1
Gases Under Pressure: Compressed gas

GHS Label Elements

Signal Word:

Symbols:

Warning



Hazard Statements:

Causes skin irritation.
Causes eye irritation.
May cause an allergic skin reaction
May cause respiratory irritation. May cause drowsiness or dizziness
May be fatal if swallowed and enters airways
Extremely flammable aerosol.
Contains gas under pressure; may explode if heated

Precautionary Statements:

Prevention:	Wash hands and any exposed skin thoroughly after handling. Wear protective gloves. Wear eye / face protection. Wear protective clothing. Avoid breathing dust/fume/gas/mist/vapors/spray Contaminated work clothing should not be allowed out of the workplace Use only outdoors or in a well-ventilated area. Keep away from heat/sparks/open flames/hot surfaces. — No smoking Do not spray on an open flame or other ignition source Pressurized container: Do not pierce or burn, even after use Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.
Response:	
-Eyes	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
-Skin	IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical attention.
-Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell
-Ingestion:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician Do NOT induce vomiting.
-Specific Treatment:	See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.
Storage:	Store locked up. Store in a well-ventilated place. Keep container tightly closed. Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C)
Disposal:	Dispose of contents and container in accordance with local, state and federal regulations.
Hazards Not Otherwise Classified:	Not Applicable
Other Information:	<ul style="list-style-type: none"> • May be harmful if swallowed. • May be harmful in contact with skin • Inhalation of vapors or mist may cause respiratory irritation. • Keep out of reach of children. • Contains petroleum distillates. Possible aspiration hazard.

0.6% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
petroleum distillates	64742-47-8	60-100
carbon dioxide	124-38-9	1-5
piperonyl butoxide	51-03-6	0.1-1
permethrin	52645-53-1	0.1-1
tetramethrin	7696-12-0	<0.1

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

-Eye Contact:	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
-Skin Contact:	Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation or rash occurs: Get medical attention.
-Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
-Ingestion:	IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.
Note to Physicians:	Contains petroleum distillates. Possible aspiration hazard.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray (fog), Foam

Specific Hazards Arising from the Chemical:	Extremely flammable aerosol. Exposure to high temperature may cause containers to burst. Bursting aerosol containers may be propelled from fire at high speed.
Hazardous Combustion Products:	May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
Protective Equipment and Precautions for Firefighters:	Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Water may be used to cool closed containers to prevent pressure build-up and possible auto ignition or explosion when exposed to extreme heat.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with eyes and skin. Use personal protective equipment as required. Remove all sources of ignition.
Environmental Precautions:	Do not rinse spill onto the ground, into storm sewers or bodies of water.
Methods for Clean-Up:	Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

Advice on Safe Handling:	Handle in accordance with good industrial hygiene and safety practice. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Wash thoroughly after handling.
Storage Conditions:	NFPA 30B Level 3 Aerosol. Do not store in direct sunlight or above 122 F° / 50 C°. Exposure to high temperature may cause containers to burst. Keep out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:	None established.
Engineering Controls:	Provide good general ventilation. If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.
Personal Protective Equipment	
Eye/Face Protection:	Wear splash goggles.
Skin and Body Protection:	Wear rubber or other chemical-resistant gloves.
Respiratory Protection:	Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.
General Hygiene Considerations:	Wash hands and any exposed skin thoroughly after handling. See 29 CFR 1910.132-138 for further guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Aerosol
Color:	Light yellow
Odor:	Cherry fragrance
pH:	Not applicable
Melting Point / Freezing Point:	No information available.
Boiling Point / Boiling Range:	175 °C / 347 °F
Flash Point:	81 °C / 178 °F ASTM D56
Evaporation Rate:	< 1 (Butyl acetate = 1)
Flammability (solid, gas)	No information available.
Upper Flammability Limit:	No information available.
Lower Flammability Limit:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Specific Gravity:	0.8103 (Product without propellant)
Solubility(ies):	Miscible in water
Partition Coefficient:	No information available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

10. STABILITY AND REACTIVITY

Reactivity:	This material is considered to be non-reactive under normal conditions of use.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	Not expected to occur with normal handling and storage.
Conditions to Avoid:	Extremes of temperature and direct sunlight.
Incompatible Materials:	Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products:	May include carbon monoxide, carbon dioxide (CO ₂) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Eyes, Skin, Ingestion, Inhalation.
Symptoms of Exposure:	
-Eye Contact:	Pain, redness and swelling of the conjunctiva.
-Skin Contact:	Pain, redness and cracking of the skin. May cause sensitization by skin contact
-Inhalation:	Nasal discomfort and coughing.
-Ingestion:	Harmful if swallowed. Potential for aspiration if swallowed. Aspiration may cause pulmonary edema and pneumonitis.

Immediate, Delayed, Chronic Effects

Product Information: Data not available or insufficient for classification.

Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral):	5186 mg/kg
ATEmix (dermal):	2074 mg/kg

Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
petroleum distillates 64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
permethrin 52645-53-1	= 383 mg/kg (Rat)	= 1750 mg/kg (Rat) > 2 g/kg (Rabbit)	Not Available

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
petroleum distillates 64742-47-8	Not Available	45: 96 h Pimephales promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static	Not Available	4720: 96 h Den-dronereides heteropoda mg/L LC50
permethrin 52645-53-1	Not Available	0.008 - 0.03: 96 h Pimephales promelas mg/L LC50 flow-through 0.001 - 0.009: 96 h Pimephales promelas mg/L LC50 static 0.015: 96 h Cyprinus carpio mg/L LC50 flow-through 0.0052 - 0.0077: 96 h Cyprinus carpio mg/L LC50 0.00079: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.0108: 96 h Lepomis macrochirus mg/L LC50 0.00188 - 0.00336: 96 h Lepomis macrochirus mg/L LC50 static 0.00049 - 0.00097: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.0017 - 0.0048: 96 h Oncorhynchus mykiss mg/L LC50 static	Not Available	Not Available

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging: Pressurized container: Do not pierce or burn, even after use. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT:

UN/ID No: UN1950

Proper Shipping Name: Aerosols

Hazard Class: 2.1

Special Provisions: This product meets the exception requirements of section 49 CFR 173.306 as a limited quantity and may be shipped as a limited quantity.

Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

IMDG:

UN/ID No: UN1950

Proper Shipping Name: Aerosols

Hazard Class: 2.1

Additional information: Limited Quantity

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313

This product does not contain listed substances above the "de minimus" level

SARA 311/312 Hazard Categories

Acute Health Hazard:	Yes
Chronic Health Hazard:	No
Fire Hazard:	Yes
Sudden release of pressure hazard:	No
Reactive Hazard:	No

California Proposition 65

This product is not subject to warning requirements under California Proposition 65.

EPA Pesticide Registration Number: 10088-92-5741

EPA Statement:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label:

Caution. Causes moderate eye irritation. Avoid contact with eyes or clothing. Harmful if swallowed. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

16. OTHER INFORMATION

NFPA	Health Hazards: 2	Flammability: 3	Instability: 0	Special: N/A
HMIS	Health Hazards: 2*	Flammability: 4	Physical Hazards: 2	

Revision Date: 11-Aug-2015
Reasons for Revision: Section 14 and 15

Disclaimer:

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



Safety Data Sheet

Spartan Chemical Company, Inc.

Revision Date: 25-Oct-2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: GREEN SOLUTIONS INDUSTRIAL CLEANER
Product Number: 3506 , 3515 (2-Liter Cartridge)
Recommended Use: Cleaning agent
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:

Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

Skin Corrosion/Irritation: Category 2
Serious Eye Damage/Eye Irritation: Category 2A

GHS Label Elements

Signal Word:

Warning

Symbols:



Hazard Statements:

Causes skin irritation.
Causes serious eye irritation

Precautionary Statements:

Prevention:

Wash hands and any exposed skin thoroughly after handling.
Wear protective gloves
Wear eye / face protection

Response:

-Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

-Skin

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse.

-Specific Treatment:

See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

Storage:

Not Applicable

Disposal:

Not Applicable

Hazards Not Otherwise Classified: Not Applicable

Other Information:

- May be harmful if swallowed.
- Inhalation of vapors or mist may cause respiratory irritation.
- Keep out of reach of children.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100
Undeceth-3	34398-01-1	1-5
Sodium Carbonate	497-19-8	1-5
Poly(oxy-1,2-ethanediyl) a,a-[[[3-(decyloxy)propyl]methyliminio]di-2,1-ethane diyl]bis[w-hydroxy-,branched,chlorides	68478-94-4	1-5
Citric Acid	77-92-9	0.1-1
Alkyl Glucoside	PROPRIETARY	0.1-1
Methylchloroisothiazolinone	26172-55-4	<0.1
Methylisothiazolinone	2682-20-4	<0.1

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

- Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- Skin Contact:** Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical attention.
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
- Ingestion:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.
- Note to Physicians:** Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:** Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire
- Specific Hazards Arising from the Chemical:** Dried product is capable of burning. Combustion products are toxic.
- Hazardous Combustion Products:** May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
- Protective Equipment and Precautions for Firefighters:** Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
- Environmental Precautions:** Do not rinse spill onto the ground, into storm sewers or bodies of water.
- Methods for Clean-Up:** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

- Advice on Safe Handling:** Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

Suggested Shelf Life: Minimum of 2 years from date of manufacture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits: None established.

Engineering Controls: Provide good general ventilation.
If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.

Personal Protective Equipment

Eye/Face Protection: Wear splash goggles.

Skin and Body Protection: Wear rubber or other chemical-resistant gloves.

Respiratory Protection: Not required with expected use.
If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

General Hygiene Considerations: Wash hands and any exposed skin thoroughly after handling.
See 29 CFR 1910.132-138 for further guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Liquid
Color:	Clear
Odor:	This product is fragrance free.
pH:	Undiluted: 9.0-10.0 / Diluted 1:64: 8.0-9.0
Melting Point / Freezing Point:	No information available.
Boiling Point / Boiling Range:	100 °C / 212 °F
Flash Point:	> 100 °C / > 212 °F ASTM D56
Evaporation Rate:	< 1
Flammability (solid, gas)	No information available.
Upper Flammability Limit:	No information available.
Lower Flammability Limit:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Specific Gravity:	1.01
Solubility(ies):	Soluble in water
Partition Coefficient:	No information available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

10. STABILITY AND REACTIVITY

Reactivity: This material is considered to be non-reactive under normal conditions of use.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Not expected to occur with normal handling and storage.

Conditions to Avoid: Extremes of temperature and direct sunlight.

Incompatible Materials: Strong oxidizing agents. Strong acids.

Hazardous Decomposition Products: May include carbon monoxide, carbon dioxide (CO₂) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation.

Symptoms of Exposure:

-Eye Contact: Pain, redness, swelling of the conjunctiva and blurred vision.

-Skin Contact: Pain, redness and cracking of the skin.

-Inhalation: Nasal discomfort and coughing.
-Ingestion: Pain, nausea, vomiting and diarrhea.
Immediate, Delayed, Chronic Effects
Product Information: Data not available or insufficient for classification.

Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral): 12736 mg/kg
 ATEmix (inhalation-dust/mist): 75.2 mg/l

Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	Not Available	Not Available
Sodium Carbonate 497-19-8	= 4090 mg/kg (Rat)	Not Available	= 2300 mg/m ³ (Rat) 2 h
Citric Acid 77-92-9	= 3 g/kg (Rat)	Not Available	Not Available
Methylchloroisothiazolinone 26172-55-4	= 481 mg/kg (Rat)	Not Available	= 1.23 mg/L (Rat) 4 h

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
Sodium Carbonate 497-19-8	Not Available	300: 96 h Lepomis macrochirus mg/L LC50 static 310 - 1220: 96 h Pimephales promelas mg/L LC50 static	Not Available	265: 48 h Daphnia magna mg/L EC50
Citric Acid 77-92-9	Not Available	1516: 96 h Lepomis macrochirus mg/L LC50 static	Not Available	Not Available
Methylchloroisothiazolinone 26172-55-4	0.11 - 0.16: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 0.03 - 0.13: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	1.6: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	Not Available	4.71: 48 h Daphnia magna mg/L EC50 0.12 - 0.3: 48 h Daphnia magna mg/L EC50 Flow through 0.71 - 0.99: 48 h Daphnia magna mg/L EC50 Static

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT: Not Regulated

Proper Shipping Name: Non-Hazardous Product

Special Provisions: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

IMDG: Not Regulated
Proper Shipping Name: Non-Hazardous Product

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313

This product does not contain listed substances above the "de minimus" level

SARA 311/312 Hazard Categories

Acute Health Hazard:	Yes
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden release of pressure hazard:	No
Reactive Hazard:	No

California Proposition 65

This product is not subject to warning requirements under California Proposition 65.

16. OTHER INFORMATION

NFPA	Health Hazards: 1	Flammability: 0	Instability: 0	Special: N/A
HMIS	Health Hazards: 1	Flammability: 0	Physical Hazards: 0	

Revision Date: 25-Oct-2019
Reasons for Revision: Section, 3, 11, and, 12

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



Safety Data Sheet

Spartan Chemical Company, Inc.

Revision Date: 14-Aug-2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: **GS NEUTRAL DISINFECTANT CLEANER**
Product Number: 3502 , 3513
Recommended Use: Disinfectant
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:

Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

Acute Toxicity - Oral: Category 4
Skin Corrosion/Irritation: Category 1
Serious Eye Damage/Eye Irritation: Category 1

GHS Label Elements

Signal Word:

Symbols:

Danger



Hazard Statements:

Harmful if swallowed.
Causes severe skin burns and serious eye damage.

Precautionary Statements:

Prevention:

Wash hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product
Do not breathe mist, vapors or spray.
Wear protective gloves. Wear eye / face protection. Wear protective clothing.

Response:

-Eyes

IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

-Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.

-Inhalation:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

-Ingestion:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

-Specific Treatment:

See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

Storage:

Store locked up.

Disposal:

Dispose of contents and container in accordance with local, state and federal regulations.

Hazards Not Otherwise Classified: Not Applicable

Other Information:

- Corrosive.
- Inhalation of vapors or mist may cause respiratory irritation.
- Keep out of reach of children.
- NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

0.134% of the mixture consists of ingredient(s) of unknown toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
water	7732-18-5	60-100
dialkyl dimethyl ammonium chloride	68424-95-3	1-5
alkyl dimethyl benzyl ammonium chloride	68424-85-1	1-5
ethanol	64-17-5	1-5
tetrasodium ethylenediaminetetraacetate	64-02-8	0.1-1
alcohol ethoxylate	68439-46-3	0.1-1

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

-Eye Contact: Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.

-Skin Contact: Take off immediately all contaminated clothing and shoes. Rinse with water or shower for at least 15 minutes. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Wash contaminated clothing before reuse.

-Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.

-Ingestion: Rinse mouth. Do NOT induce vomiting. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Never give anything by mouth to an unconscious person.

Note to Physicians: NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire

Specific Hazards Arising from the Chemical: Dried product is capable of burning. Combustion products are toxic.

Hazardous Combustion Products: May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.

Protective Equipment and Precautions for Firefighters: Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Environmental Precautions: Do not rinse spill onto the ground, into storm sewers or bodies of water.

Methods for Clean-Up: Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.

Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
ethanol 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³

Engineering Controls: Provide good general ventilation.
If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.
Eye wash stations and shower facilities should be readily accessible in areas where the product is handled.

Personal Protective Equipment

Eye/Face Protection: Wear splash goggles.

Skin and Body Protection: Wear rubber or other chemical-resistant gloves.

Respiratory Protection: Not required with expected use.

If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

General Hygiene Considerations: Wash hands and any exposed skin thoroughly after handling.
See 29 CFR 1910.132-138 for further guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Liquid
Color:	Clear
Odor:	Mild
pH:	6.0-7.0
Melting Point / Freezing Point:	No information available.
Boiling Point / Boiling Range:	100 °C / 212 °F
Flash Point:	> 100 °C / > 212 °F ASTM D56
Evaporation Rate:	< 1 (Butyl acetate = 1)
Flammability (solid, gas)	No information available.
Upper Flammability Limit:	No information available.
Lower Flammability Limit:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Specific Gravity:	1.0
Solubility(ies):	Soluble in water
Partition Coefficient:	No information available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

10. STABILITY AND REACTIVITY

Reactivity: This material is considered to be non-reactive under normal conditions of use.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Not expected to occur with normal handling and storage.

Conditions to Avoid: Extremes of temperature and direct sunlight.

Incompatible Materials: Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products: May include carbon monoxide, carbon dioxide (CO₂) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation.
Symptoms of Exposure:
-Eye Contact: Pain, redness, swelling of the conjunctiva and tissue damage. Eye contact may cause permanent damage.
-Skin Contact: Pain, redness, blistering and possible chemical burn.
-Inhalation: Nasal discomfort and coughing.
-Ingestion: Damage or chemical burns to mouth, throat and stomach. Pain, nausea, vomiting and diarrhea.

Immediate, Delayed, Chronic Effects
Product Information: Data not available or insufficient for classification.

Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral): 1837 mg/kg
 ATEmix (dermal): 5528 mg/kg
 ATEmix (inhalation-dust/mist): 23 mg/l

Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
water 7732-18-5	> 90 mL/kg (Rat)	Not Available	Not Available
alkyl dimethyl benzyl ammonium chloride 68424-85-1	= 426 mg/kg (Rat)	Not Available	Not Available
ethanol 64-17-5	= 7060 mg/kg (Rat)	Not Available	= 124.7 mg/L (Rat) 4 h
tetrasodium ethylenediaminetetraacetate 64-02-8	= 10 g/kg (Rat)	Not Available	Not Available
alcohol ethoxylate 68439-46-3	= 1378 mg/kg (Rat)	> 2 g/kg (Rabbit)	Not Available

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
ethanol 64-17-5	Not Available	12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through	Not Available	9268 - 14221: 48 h Daphnia magna mg/L LC50 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static
tetrasodium ethylenediaminetetraacetate 64-02-8	1.01: 72 h Desmodosmus subspicatus mg/L EC50	41: 96 h Lepomis macrochirus mg/L LC50 static 59.8: 96 h Pimephales promelas mg/L LC50 static	Not Available	610: 24 h Daphnia magna mg/L EC50

Persistence and Degradability: No information available.
Bioaccumulation: No information available.

Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.
Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT: Not Regulated
Proper Shipping Name: Non-Hazardous Product
Special Provisions: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

IMDG: Not Regulated
Proper Shipping Name: Non-Hazardous Product

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)
 All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313
 This product does not contain listed substances above the "de minimus" level

SARA 311/312 Hazard Categories

Acute Health Hazard:	Yes
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden release of pressure hazard:	No
Reactive Hazard:	No

California Proposition 65

This product is not subject to warning requirements under California Proposition 65.

EPA Pesticide Registration Number: 1839-169-5741

EPA Statement:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

EPA Pesticide Label:

Danger. Keep out of reach of children. Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. May be fatal if absorbed through the skin. Harmful if swallowed. Wear goggles or face shield, rubber gloves, and protective clothing. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco.

16. OTHER INFORMATION

NFPA	Health Hazards: 3	Flammability: 0	Instability: 0	Special: N/A
HMIS	Health Hazards: 3	Flammability: 0	Physical Hazards: 0	

Revision Date: 14-Aug-2015
Reasons for Revision: Section 11

Disclaimer:

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product Identifier: EnvirOx H2Orange2 Concentrate 117

Other means of identification

Product code: 117

Product registration number: 69268-2

Recommended use: Oxidizing Multipurpose Cleaner, Degreaser and Sanitizer (Non-Food Contact Surfaces), Virucide and Deodorizer for Hard, Non-Porous Surfaces

Recommended restrictions: None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer/Supplier EnvirOx LLC
Address P.O. Box 2327
1938 E. Fairchild St.
Danville, IL 61834-2327 USA
Telephone 1-217-442-8596

Emergency Phone Number: ChemTel Inc. 800-255-3924, +1-813-248-0585

SECTION 2 –HAZARD(S) IDENTIFICATION

Physical hazards: Not classified.

OSHA defined hazards: Not classified.

Classification of the substance or mixture:



Eye Irritation Category 2A

Signal Word – Warning

Hazard statement: Causes serious eye irritation.

Precautionary statements:

Prevention: Wash thoroughly after handling. Wear eye/face protection.

Response: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Storage: Store away from incompatible materials.

Disposal: Dispose of waste and residues in accordance with local authority requirements.

Hazard(s) not otherwise classified (HNOC): Repeat or prolonged use may result in contact dermatitis in sensitive individuals.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical Name	CAS Number	%
Hydrogen peroxide	7722-84-1	3.75-4.15%
Orange Oil	8008-57-9	<2%

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

SECTION 4 - FIRST-AID MEASURES

Inhalation: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then, give artificial respiration, preferably mouth-to-mouth. Call a poison control center or doctor for further treatment advice.

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

Eye contact: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then, continue rinsing eye. Call a poison control center or doctor for treatment advice.

Ingestion: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Most important symptoms/effects, acute and delayed: Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Indication of immediate medical attention and special treatment needed: Probable mucosal damage may contraindicate the use of gastric lavage.

General information: Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

SECTION 5 - FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions: Move containers from fire area if you can do so without risk.

Specific methods: Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards: No unusual fire or explosion hazards noted.

SECTION 6 - ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up: To clean up spill, flood area with large quantities of water. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer.

Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with eyes. Avoid prolonged exposure. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use care in handling/storage.

Conditions for safe storage, including any incompatibilities: Store this product in a cool dry area, away from direct sunlight and heat to avoid deterioration. Avoid freezing conditions. Avoid high temperatures. Do not exceed storage temperatures of 95°F. Best storage temperatures are between 35°F and 85°F. Overheating in storage may result in increased degradation of product, which will decrease product effectiveness. Keep concentrate away from incompatible materials. Refillable container: Refill this container with pesticide only. Do not reuse this container for any other purpose.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Hydrogen peroxide (CAS 7722-84-1)	PEL	1.4 mg/m ³ 1 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Hydrogen peroxide (CAS 7722-84-1)	TWA	1 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Hydrogen peroxide (CAS 7722-84-1)	TWA	1.4 mg/m ³ 1 ppm

Biological limit values: No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls: No further information available.

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety glasses.

Skin protection

Hand protection: Rubber gloves, Butyl rubber, Nitrile rubber, or Neoprene gloves.

Other: Protective work clothing.

Respiratory protection: Not required under normal conditions of handling. Use suitable respiratory protective device when aerosol or mist is formed.

Thermal hazards: Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Physical State: Liquid Form: Liquid Color: Clear	Flammability limit – upper (%)	Not available.
Odor:	Citrus	Explosive limit - lower (%)	Not available.
Odor threshold:	Not determined	Explosive limit - upper (%)	Not available.
pH	4.4 (20°C)	Vapor pressure:	Not available.
Melting point/Melting range:	Undetermined	Vapor density:	Not available.
Boiling point/Boiling range:	212 °F / 100 °C	Relative Density:	Not available.
Flash point:	Not applicable	Solubility:	Fully miscible
Evaporation rate:	Not available.	Partition coefficient (noctanol/water):	Not available.
Flammability (solid, gaseous):	Not applicable	Auto-ignition temperature:	Not available.
Flammability limit – lower (%)	Not available.	Decomposition temperature:	Not available.
		Viscosity:	Not available.

SECTION 10 - STABILITY AND REACTIVITY

Reactivity: The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability: Material is stable under normal conditions.

Possibility of hazardous reactions: No dangerous reaction known under conditions of normal use.

Conditions to avoid: Contact with incompatible materials.

Incompatible materials: Strong oxidizing agents.

Hazardous decomposition products: No hazardous decomposition products are known.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Inhalation: Prolonged inhalation may be harmful.

Skin contact: No adverse effects due to skin contact are expected.

Eye Contact: Causes serious eye irritation.

Ingestion: Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics: Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effect: Acute toxicity

Components	Species	Test Results
Hydrogen peroxide (CAS 7722-84-1)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	> 2000 mg/kg
<i>Inhalation</i>		
LC50	Rat	2 mg/l, 4 Hours
<i>Oral</i>		
LD50	Rat	376 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

RESPIRATORY OR SKIN SENSITIZATION

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

Hydrogen peroxide (CAS 7722-84-1) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components	Species	Test Results	
Hydrogen peroxide (CAS 7722-84-1)			
Aquatic			
Crustacea	LC50	Daphnia	24 mg/l, 48 hours
Fish	LC50	Bluegill (Lepomis macrochirus)	26.7 mg/l, 96 Hours
		Chameleon goby (Tridentiger trigonocephalus)	155 mg/l, 24 Hours
		Jack Mackerel (Trachurus japonicus)	89 mg/l, 24 Hours
		Rainbow trout,donaldson trout	22 mg/l, 96 Hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal instructions PESTICIDE DISPOSAL: Do not contaminate food or feed by storage, disposal or cleaning of equipment. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging CONTAINER HANDLING: If Empty: Do not reuse container. Place in trash or offer for recycling if available. If Partially Filled: Call your local solid waste for disposal instructions. Never place unused product down any indoor or outdoor drain. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application or a mix procedure two more times. Refillable containers - cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. If in plastic bag with original box, discard in trash, sanitary landfill or by incineration, or if allowed by State and Local Authorities, by burning. If burning, stay out of smoke.

SECTION 14 - TRANSPORT INFORMATION

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not Established

SECTION 15 - REGULATORY INFORMATION

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories
Immediate Hazard – Yes
Delayed Hazard – No
Fire Hazard – No
Pressure Hazard – No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Chemical name	CAS number	Reportable quantity (pounds)	Threshold planning quantities (pounds)	Threshold planning quantity, lower value (pounds)	Threshold planning quantity, upper value (pounds)
Hydrogen peroxide	7722-84-1	1000	1000		

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting) Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)

Not regulated.

FIFRA Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

Signal word CAUTION

Hazard statement

PRECAUTIONARY STATEMENTS - HAZARDS TO HUMAN AND DOMESTIC ANIMALS

Causes moderate eye damage. Harmful if swallowed, absorbed through the skin, or inhaled. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.

After product is diluted in accordance with directions for use, safety glasses or other eye protection are not required. Product after dilution according to directions, is non-irritating.

US state regulations

US. Massachusetts RTK - Substance List

Hydrogen peroxide (CAS 7722-84-1)

US. New Jersey Worker and Community Right-to-Know Act

Hydrogen peroxide (CAS 7722-84-1)

US. Pennsylvania Worker and Community Right-to-Know Law

Hydrogen peroxide (CAS 7722-84-1)

US. Rhode Island RTK

Hydrogen peroxide (CAS 7722-84-1)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

SECTION 16 - OTHER INFORMATION

Revision Date

15 – February – 2016

Disclaimer: EnvirOx LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

1. Identification

Product number HIL0109355
Product identifier Chalkboard & Whiteboard Cleaner
Company information HILLYARD INC
 302 North 4th Street
 St. Joseph, MO 64501 United States
Company phone 816-383-8285
Version # 01
Recommended use Cleaner
Recommended restrictions None known.

2. Hazard(s) identification

Physical hazards Gases under pressure Liquefied gas
Health hazards Not classified.
Environmental hazards Not classified.
OSHA defined hazards Not classified.

Label elements



Signal word Warning
Hazard statement Contains gas under pressure; may explode if heated.
Precautionary statement
Prevention Observe good industrial hygiene practices.
Response Wash hands after handling.
Storage Protect from sunlight. Store in a well-ventilated place.
Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC) None known.
Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
2-Butoxyethanol		111-76-2	1 - 2.5
Butane		106-97-8	1 - 2.5
Ethyl Alcohol		64-17-5	1 - 2.5
Other components below reportable levels			90 - 100

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.
Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.
Eye contact Rinse with water. Get medical attention if irritation develops and persists.
Ingestion In the unlikely event of swallowing contact a physician or poison control center.

Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	Contents under pressure.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
6. Accidental release measures	
Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. Ground and bond containers when transferring material. Do not re-use empty containers. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.
Conditions for safe storage, including any incompatibilities	Level 1 Aerosol. Contents under pressure. Do not expose to heat or store at temperatures above 120°F/49°C as can may burst. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
2-Butoxyethanol (CAS 111-76-2)	PEL	240 mg/m ³
Ethyl Alcohol (CAS 64-17-5)	PEL	50 ppm 1900 mg/m ³ 1000 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
2-Butoxyethanol (CAS 111-76-2)	TWA	20 ppm
Butane (CAS 106-97-8)	STEL	1000 ppm
Ethyl Alcohol (CAS 64-17-5)	STEL	1000 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
2-Butoxyethanol (CAS 111-76-2)	TWA	24 mg/m ³
Butane (CAS 106-97-8)	TWA	5 ppm 1900 mg/m ³ 800 ppm
Ethyl Alcohol (CAS 64-17-5)	TWA	1900 mg/m ³ 1000 ppm

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
2-Butoxyethanol (CAS 111-76-2)	200 mg/g	Butoxyacetic acid (BAA), with hydrolysis	Creatinine in urine	*

* - For sampling details, please see the source document.

Exposure guidelines

US - California OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

US - Minnesota Haz Subs: Skin designation applies

2-Butoxyethanol (CAS 111-76-2) Skin designation applies.

US - Tennessee OELs: Skin designation

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

US NIOSH Pocket Guide to Chemical Hazards: Skin designation

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

2-Butoxyethanol (CAS 111-76-2) Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection

If contact is likely, safety glasses with side shields are recommended.

Hand protection

For prolonged or repeated skin contact use suitable protective gloves.

Skin protection

Other

Wear suitable protective clothing.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties**Appearance**

Physical state	Liquid.
Form	Aerosol. Liquefied gas.
Color	Pale yellow
Odor	Butyl
Odor threshold	Not available.
pH	9.5 - 10.5 estimated
Melting point/freezing point	Not available.
Initial boiling point and boiling range	212 °F (100 °C) estimated
Flash point	-155.9 °F (-104.4 °C) estimated
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	23.01 psig @70F estimated
Vapor density	Not available.
Relative density	0.978 g/cm3 estimated
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Density	0.98 g/cm3 estimated
Flammability class	Flammable IB estimated
Heat of combustion	2.62 kJ/g estimated
Heat of combustion (NFPA 30B)	2.62 kJ/g estimated
Percent volatile	99.13 % estimated
Specific gravity	0.978 estimated
VOC (Weight %)	7.07 % estimated

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.

Hazardous decomposition products

No hazardous decomposition products are known.

11. Toxicological information**Information on likely routes of exposure**

Ingestion Expected to be a low ingestion hazard.
Inhalation Prolonged inhalation may be harmful.
Skin contact 2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

Eye contact Direct contact with eyes may cause temporary irritation.

Symptoms related to the physical, chemical and toxicological characteristics Direct contact with eyes may cause temporary irritation.

Information on toxicological effects**Acute toxicity**

Components	Species	Test Results
2-Butoxyethanol (CAS 111-76-2)		
Acute		
<i>Dermal</i>		
LD50	Guinea pig	230 ml/kg, 24 Hours 7.3 ml/kg, 4 Days
	Rabbit	450 ml/kg, 24 Hours 435 mg/kg, 24 Hours 0.63 ml/kg
	Rat	> 2000 mg/kg, 24 Hours
<i>Inhalation</i>		
LC50	Rabbit	400 ppm, 7 Hours
	Rat	450 ppm, 4 Hours
<i>Oral</i>		
LD100	Rabbit	695 mg/kg
LD50	Dog	> 695 mg/kg
	Guinea pig	1200 mg/kg
	Rat	530 - 2800 mg/kg
Butane (CAS 106-97-8)		
Acute		
<i>Inhalation</i>		
LC50	Mouse	1237 mg/l, 120 Minutes 52 %, 120 Minutes
	Rat	1355 mg/l
Ethyl Alcohol (CAS 64-17-5)		
Acute		
<i>Inhalation</i>		
LC50	Cat	85.41 mg/l, 4.5 Hours 43.68 mg/l, 6 Hours
	Mouse	> 60000 ppm 79.43 mg/l, 134 Minutes
	Rat	> 115.9 mg/l, 4 Hours 51.3 mg/l, 6 Hours
<i>Oral</i>		
LD50	Monkey	6000 mg/kg

Components	Species	Test Results
	Mouse	10500 ml/kg
	Rat	1187 - 2769 mg/kg
		7800 ml/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available.

Skin sensitization This product is not expected to cause skin sensitization.

Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

IARC Monographs. Overall Evaluation of Carcinogenicity

2-Butoxyethanol (CAS 111-76-2) 3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure Not classified.

Specific target organ toxicity - repeated exposure Not classified.

Aspiration hazard Not available.

Chronic effects Prolonged inhalation may be harmful. May be harmful if absorbed through skin.

2-Butoxy ethanol may be absorbed through the skin in toxic amounts if contact is repeated and prolonged. These effects have not been observed in humans.

12. Ecological information

Ecotoxicity Harmful to aquatic life.

Components	Species	Test Results
2-Butoxyethanol (CAS 111-76-2)		
Aquatic		
Fish	LC50	Inland silverside (Menidia beryllina) 1250 mg/l, 96 hours
Ethyl Alcohol (CAS 64-17-5)		
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) 7700 - 11200 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) > 100.1 mg/l, 96 hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

2-Butoxyethanol	0.83
Butane	2.89
Ethyl Alcohol	-0.31

Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions	Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

14. Transport information

DOT	
UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Special provisions	N82
Packaging exceptions	306
Packaging non bulk	None
Packaging bulk	None
This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.	

IATA

UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	2.1
Packing group	Not applicable.
Environmental hazards	No.
ERG Code	10L
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo aircraft	Allowed.
Cargo aircraft only	Allowed.
Packaging Exceptions	LTD QTY

IMDG

UN number	UN1950
UN proper shipping name	AEROSOLS
Transport hazard class(es)	
Class	2.1
Subsidiary risk	-
Label(s)	None
Packing group	Not applicable.
Environmental hazards	
Marine pollutant	No.

EmS

F-D, S-U

Special precautions for user

Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

Packaging Exceptions

LTD QTY

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

DOT



IATA; IMDG



15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - Yes
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical

No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Butane (CAS 106-97-8)

Safe Drinking Water Act (SDWA) Not regulated.**US state regulations****US. Massachusetts RTK - Substance List**

2-Butoxyethanol (CAS 111-76-2)

Butane (CAS 106-97-8)

Ethyl Alcohol (CAS 64-17-5)

US. New Jersey Worker and Community Right-to-Know Act

2-Butoxyethanol (CAS 111-76-2)

Butane (CAS 106-97-8)

Ethyl Alcohol (CAS 64-17-5)

US. Pennsylvania Worker and Community Right-to-Know Law

2-Butoxyethanol (CAS 111-76-2)

Butane (CAS 106-97-8)

Ethyl Alcohol (CAS 64-17-5)

US. Rhode Island RTK

Butane (CAS 106-97-8)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision**Issue date** 02-04-2015**Version #** 01

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



SAFETY DATA SHEET

Issue Date 01-Apr-2015

Revision Date 13-Mar-2015

Version 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name WEN MILDEW PLUS
Product Code FLC228XXWEN-MILD
Customer Code FCMP

Other means of identification

Recommended use of the chemical and restrictions on use

Recommended Use Bathroom Cleaner
Uses advised against Use only as stated on label.

Details of the supplier of the safety data sheet

Manufactured For / Distributed By
Walter E. Nelson, Company
5937 North Cutter Circle
Portland, OR 97217
Phone (503) 285-3037
E-Mail customerservice@walterenelson.com

Emergency telephone number

24 Hour Emergency Phone Number (800) 228-5635 X059

2. HAZARDS IDENTIFICATION

Classification

Acute toxicity - Oral	Not classified
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1
Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

Label elements

Emergency Overview

Danger

Hazard statements

Causes severe skin burns and eye damage
Very toxic to aquatic life with long lasting effects

**Precautionary Statements - Prevention**

- Do not breathe dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling
- Wear protective gloves/protective clothing/eye protection/face protection
- Avoid release to the environment

Precautionary Statements - Response

- Immediately call a POISON CENTER or doctor/physician
- Specific treatment (see .? on this label)
 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.
 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting.
- Collect spillage.

Precautionary Statements - Storage

- Store locked up

Precautionary Statements - Disposal

- Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)**Other Information**

Unknown Acute Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Sodium Hypochlorite	7681-52-9	1-5	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES**First aid measures**

General advice	Immediate medical attention is required.
Skin Contact	Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. For minor skin contact, avoid spreading material on unaffected skin. For severe burns, immediate medical attention is required.
Eye contact	Immediate medical attention is required Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Keep eye wide open while rinsing Do not rub affected area Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes
Inhalation	Remove to fresh air. Call a physician or poison control center immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

- Ingestion** Immediate medical attention is required. Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Remove from exposure, lie down. Clean mouth with water and drink afterwards plenty of water. Call a physician or poison control center immediately.
- Self-protection of the first aider** Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

Most important symptoms and effects, both acute and delayed

- Symptoms** Any additional important symptoms and effects are described in Section 11: Toxicology Information.

Indication of any immediate medical attention and special treatment needed

- Note to physicians** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

Protective equipment and precautions for firefighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

- Personal precautions** Use personal protective equipment as required. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Keep people away from and upwind of spill/leak.

Environmental precautions

- Environmental precautions** Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

Methods and material for containment and cleaning up

- Methods for containment** Prevent further leakage or spillage if safe to do so.
Methods for cleaning up Soak up with inert absorbent material. Clean contaminated surface thoroughly. Dike far ahead of liquid spill for later disposal. Take up mechanically, placing in appropriate containers for disposal. Prevent product from entering drains. Dam up. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed systems. Do not mix with acids.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers. Keep/store only in original container. Do not reuse container.

Incompatible materials Incompatible with strong acids and bases. Incompatible with oxidizing agents. Strong acids. Aluminum. Strong reducing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Potassium Hydroxide 1310-58-3	Ceiling: 2 mg/m ³	(vacated) Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³

NIOSH IDLH *Immediately Dangerous to Life or Health*

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls Showers, Eyewash stations & Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles. Face protection shield.

Skin and body protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact. Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene When using do not eat, drink or smoke. Wash contaminated clothing before reuse. Keep away from food, drink and animal feeding stuffs. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear
Color	Colorless
Odor	Chlorine
Odor threshold	No Information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	12.5 - 13.5	
Specific Gravity	1.006	
Viscosity	Water Thin	
Melting point/freezing point	No Information available	
Flash point	None	
Boiling point / boiling range	No Information available	
Evaporation rate	Same as water	
Flammability (solid, gas)		
Flammability Limits in Air		
Upper flammability limit:	No Information available	
Lower flammability limit:	No Information available	
Vapor pressure	No Information available	
Vapor density	No Information available	
Water solubility	Soluble in water	
Partition coefficient	No Information available	
Autoignition temperature	No Information available	
Decomposition temperature	No Information available	

Other Information

Density Lbs/Gal	8.88
VOC Content (%)	0

10. STABILITY AND REACTIVITY

Reactivity

No data available

Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing.
Conditions to avoid	Exposure to air or moisture over prolonged periods. Extremes of temperature and direct sunlight.
Incompatible materials	Incompatible with strong acids and bases. Incompatible with oxidizing agents. Strong acids. Aluminum. Strong reducing agents.
Hazardous Decomposition Products	Thermal decomposition can lead to release of irritating and toxic gases and vapors. Hydrogen chloride. Phosgene.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation	Causes burns.
Eye contact	Corrosive to the eyes and may cause severe damage including blindness.
Skin Contact	The product causes burns of eyes, skin and mucous membranes.
Ingestion	Causes burns.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium Hypochlorite 7681-52-9	= 8200 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	Yes

Information on toxicological effects

Symptoms No Information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Corrosivity Causes burns. Extremely corrosive and destructive to tissue. Risk of serious damage to eyes.
Sensitization May cause sensitization by inhalation and skin contact.
Germ cell mutagenicity No Information available.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium Hypochlorite 7681-52-9	Yes	Group 3	Yes	Yes

*IARC (International Agency for Research on Cancer)
 Not classifiable as a human carcinogen*

Reproductive toxicity No Information available.
STOT - single exposure No Information available.
STOT - repeated exposure No Information available.
Chronic toxicity Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure. Possible risk of irreversible effects.
Aspiration hazard No Information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

12. ECOLOGICAL INFORMATION**Ecotoxicity**

0.525% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium Hypochlorite 7681-52-9	0.095: 24 h Skeletonema costatum mg/L EC50	0.06 - 0.11: 96 h Pimephales promelas mg/L LC50 flow-through 4.5 - 7.6: 96 h Pimephales promelas mg/L LC50 static 0.4 - 0.8: 96 h Lepomis macrochirus mg/L LC50 static 0.28 - 1: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.05 - 0.771: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.03 - 0.19: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.18 - 0.22: 96 h Oncorhynchus mykiss mg/L LC50 static	0.033 - 0.044: 48 h Daphnia magna mg/L EC50 Static 2.1: 96 h Daphnia magna mg/L EC50

Persistence and degradability No Information available.

Bioaccumulation No Information available.

Other adverse effects No Information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes	Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Do not reuse container.
US EPA Waste Number	D002

This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. TRANSPORT INFORMATION

Note: The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

U.S. Department of Transportation (USDOT)

4x1 Gallon Case	<i>Not regulated</i>
Pails & Drums (<119 Gallons)	<i>Not regulated</i>

15. REGULATORY INFORMATION

International Inventories

TSCA	<i>Complies</i>	DSL/NDSL	<i>Complies</i>
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TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Reactive Hazard	No
Sudden release of pressure hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium Hypochlorite 7681-52-9	100 lb	-	-	X

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
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Sodium Hypochlorite 7681-52-9	100 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ
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US State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium Hypochlorite 7681-52-9	X	X	X
Potassium Hydroxide 1310-58-3	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

Additional information No Information available.

16. OTHER INFORMATION

HMIS

Health hazards	Flammability	Physical hazards	Personal protection
3	0	0	B

Prepared By Regulatory Department
Issue Date 01-Apr-2015
Revision Date 13-Mar-2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

PURELL® Advanced Hand Sanitizer Aloe Gel

Version 1.2 Revision Date: 03/18/2015 MSDS Number: 36799-00003 Date of last issue: 02/10/2015
Date of first issue: 12/12/2014

SECTION 1. IDENTIFICATION

Product name : PURELL® Advanced Hand Sanitizer Aloe Gel

Manufacturer or supplier's details

Company name of supplier : GOJO Industries, Inc.

Address : One GOJO Plaza, Suite 500
Akron OH 44311

Telephone : 1 (330) 255-6000

Emergency telephone : 1-800-424-9300 CHEMTREC

Recommended use of the chemical and restrictions on use

Recommended use : Hand Sanitizer

Restrictions on use : This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Flammable liquids : Category 3

Eye irritation : Category 2A

GHS Label element

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.
H319 Causes serious eye irritation.


PURELL® Advanced Hand Sanitizer Aloe Gel

Version 1.2 Revision Date: 03/18/2015 MSDS Number: 36799-00003 Date of last issue: 02/10/2015
 Date of first issue: 12/12/2014

Precautionary Statements : **Prevention:**
 P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 P233 Keep container tightly closed.
 P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P264 Wash skin thoroughly after handling.
 P280 Wear protective gloves/ eye protection/ face protection.
Response:
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
Storage:
 P403 + P235 Store in a well-ventilated place. Keep cool.
Disposal:
 P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Ethanol	64-17-5	>= 50 - < 70
Propan-2-ol	67-63-0	>= 1 - < 5

SECTION 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
 When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : If inhaled, remove to fresh air.
 Get medical attention if symptoms occur.

In case of skin contact : Wash with water and soap as a precaution.
 Get medical attention if symptoms occur.

In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
 If easy to do, remove contact lens, if worn.


PURELL® Advanced Hand Sanitizer Aloe Gel

Version	Revision Date:	MSDS Number:	Date of last issue: 02/10/2015
1.2	03/18/2015	36799-00003	Date of first issue: 12/12/2014

	Get medical attention.
If swallowed	: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	: Causes serious eye irritation.
Protection of first-aiders	: First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
Notes to physician	: Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Water spray Alcohol-resistant foam Dry chemical Carbon dioxide (CO ₂)
Unsuitable extinguishing media	: High volume water jet
Specific hazards during fire fighting	: Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion products	: Carbon oxides
Specific extinguishing methods	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions	: Discharge into the environment must be avoided.



PURELL® Advanced Hand Sanitizer Aloe Gel

Version	Revision Date:	MSDS Number:	Date of last issue: 02/10/2015
1.2	03/18/2015	36799-00003	Date of first issue: 12/12/2014

Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Non-sparking tools should be used.
Soak up with inert absorbent material.
Suppress (knock down) gases/vapors/mists with a water spray jet.
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use with local exhaust ventilation.
Use only in an area equipped with explosion proof exhaust ventilation.

Advice on safe handling : Do not breathe vapors or spray mist.
Do not swallow.
Do not get in eyes.
Avoid prolonged or repeated contact with skin.
Handle in accordance with good industrial hygiene and safety practice.
Non-sparking tools should be used.
Keep container tightly closed.
Keep away from heat and sources of ignition.
Take precautionary measures against static discharges.
Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage : Keep in properly labeled containers.
Keep tightly closed.
Keep in a cool, well-ventilated place.
Store in accordance with the particular national regulations.
Keep away from heat and sources of ignition.

Materials to avoid : Do not store with the following product types:
Strong oxidizing agents

PURELL® Advanced Hand Sanitizer Aloe Gel

Version 1.2 Revision Date: 03/18/2015 MSDS Number: 36799-00003 Date of last issue: 02/10/2015
 Date of first issue: 12/12/2014

Organic peroxides
 Flammable solids
 Pyrophoric liquids
 Pyrophoric solids
 Self-heating substances and mixtures
 Substances and mixtures which in contact with water emit flammable gases
 Explosives
 Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m ³	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m ³	OSHA Z-1
		STEL	1,000 ppm	ACGIH
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m ³	NIOSH REL
		ST	500 ppm 1,225 mg/m ³	NIOSH REL
		TWA	400 ppm 980 mg/m ³	OSHA Z-1

Biological occupational exposure limits

Ingredients	CAS-No.	Control parameters	Biological specimen	Sam-pling time	Permissible concentration	Basis
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work-week	40 mg/l	ACGIH BEI

Engineering measures : Minimize workplace exposure concentrations.
 Use only in an area equipped with explosion proof exhaust ventilation.
 Use with local exhaust ventilation.

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and


PURELL® Advanced Hand Sanitizer Aloe Gel

Version	Revision Date:	MSDS Number:	Date of last issue: 02/10/2015
1.2	03/18/2015	36799-00003	Date of first issue: 12/12/2014

use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

- Hand protection
- Material : Impervious gloves
- Material : Flame retardant gloves
- Remarks : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
- Eye protection : Wear the following personal protective equipment:
Safety goggles
- Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Wear the following personal protective equipment:
Flame retardant antistatic protective clothing.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
- Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place.
When using do not eat, drink or smoke.
Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Color : clear, light green
- Odor : alcohol-like
- Odor Threshold : No data available
- pH : 6.5 - 8.5
- Melting point/freezing point : No data available
- Initial boiling point and boiling range : 76 °C

**PURELL® Advanced Hand Sanitizer Aloe Gel**

Version	Revision Date:	MSDS Number:	Date of last issue: 02/10/2015
1.2	03/18/2015	36799-00003	Date of first issue: 12/12/2014

Flash point	: 24 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapor pressure	: No data available
Relative vapor density	: No data available
Density	: 0.881 g/cm ³
Solubility(ies)	
Water solubility	: soluble
Partition coefficient: n-octanol/water	: Not applicable
Autoignition temperature	: No data available
Decomposition temperature	: The substance or mixture is not classified self-reactive.
Viscosity	
Viscosity, kinematic	: 3,500 - 23,000 mm ² /s (20 °C)
Explosive properties	: Not explosive
Oxidizing properties	: The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: Not classified as a reactivity hazard.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid	: Heat, flames and sparks.
Incompatible materials	: Oxidizing agents
Hazardous decomposition products	: No hazardous decomposition products are known.

PURELL® Advanced Hand Sanitizer Aloe Gel

Version 1.2 Revision Date: 03/18/2015 MSDS Number: 36799-00003 Date of last issue: 02/10/2015
Date of first issue: 12/12/2014

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Ingredients:**Ethanol:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 124.7 mg/l
Exposure time: 4 h
Test atmosphere: vapor

Propan-2-ol:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 72.6 mg/l
Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: No skin irritation

Ingredients:**Ethanol:**

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

Propan-2-ol:

Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Ingredients:


PURELL® Advanced Hand Sanitizer Aloe Gel

Version 1.2 Revision Date: 03/18/2015 MSDS Number: 36799-00003 Date of last issue: 02/10/2015
 Date of first issue: 12/12/2014

Ethanol:

Species: Rabbit
 Result: Irritation to eyes, reversing within 21 days
 Method: OECD Test Guideline 405

Propan-2-ol:

Species: Rabbit
 Result: Irritation to eyes, reversing within 21 days

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.
 Respiratory sensitization: Not classified based on available information.

Product:

Assessment: Does not cause skin sensitization.

Ingredients:
Ethanol:

Test Type: Local lymph node assay (LLNA)
 Routes of exposure: Skin contact
 Species: Mouse
 Result: negative

Propan-2-ol:

Test Type: Buehler Test
 Routes of exposure: Skin contact
 Species: Guinea pig
 Method: OECD Test Guideline 406
 Result: negative

Germ cell mutagenicity

Not classified based on available information.

Ingredients:
Ethanol:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
 Result: negative

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)
 Species: Mouse
 Application Route: Ingestion
 Result: negative

Propan-2-ol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
 Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
 cytogenetic assay)
 Species: Mouse
 Application Route: Intraperitoneal injection
 Result: negative

**PURELL® Advanced Hand Sanitizer Aloe Gel**

Version 1.2 Revision Date: 03/18/2015 MSDS Number: 36799-00003 Date of last issue: 02/10/2015
Date of first issue: 12/12/2014

Carcinogenicity

Not classified based on available information.

Ingredients:**Propan-2-ol:**

Species: Rat

Application Route: inhalation (vapor)

Exposure time: 104 weeks

Method: OECD Test Guideline 451

Result: negative

IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Ingredients:**Ethanol:**

Effects on fertility

: Test Type: Two-generation reproduction toxicity study
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 416
Result: negative

Propan-2-ol:

Effects on fertility

: Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative

Effects on fetal development

: Test Type: Embryo-fetal development
Species: Rat
Application Route: Ingestion
Result: negative

STOT-single exposure

Not classified based on available information.

Ingredients:**Propan-2-ol:**

Assessment: May cause drowsiness or dizziness.


PURELL® Advanced Hand Sanitizer Aloe Gel

Version	Revision Date:	MSDS Number:	Date of last issue: 02/10/2015
1.2	03/18/2015	36799-00003	Date of first issue: 12/12/2014

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity
Ingredients:
Ethanol:

Species: Rat
 NOAEL: 2,400 mg/kg
 Application Route: Ingestion
 Exposure time: 2 y

Propan-2-ol:

Species: Rat
 NOAEL: 5000 ppm
 Application Route: inhalation (vapor)
 Exposure time: 104 w
 Method: OECD Test Guideline 413

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION
Ecotoxicity
Ingredients:
Ethanol:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 48 h
Toxicity to algae	:	EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC (Daphnia magna (Water flea)): 9.6 mg/l Exposure time: 9 d
Toxicity to bacteria	:	EC50 (Photobacterium phosphoreum): 32.1 mg/l Exposure time: 0.25 h

Propan-2-ol:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 10,000 mg/l Exposure time: 24 h
Toxicity to algae	:	ErC50 (Scenedesmus quadricauda (Green algae)): > 1,800 mg/l

**PURELL® Advanced Hand Sanitizer Aloe Gel**

Version 1.2 Revision Date: 03/18/2015 MSDS Number: 36799-00003 Date of last issue: 02/10/2015
Date of first issue: 12/12/2014

Exposure time: 8 d

Toxicity to bacteria : EC50 (Pseudomonas putida): > 1,050 mg/l
Exposure time: 16 h

Persistence and degradability**Ingredients:****Ethanol:**

Biodegradability : Result: Readily biodegradable.
Biodegradation: 84 %
Exposure time: 20 d

Propan-2-ol:

Biodegradability : Result: rapidly degradable

Bioaccumulative potential**Ingredients:****Ethanol:**

Partition coefficient: n-octanol/water : log Pow: -0.35

Propan-2-ol:

Partition coefficient: n-octanol/water : log Pow: 0.05

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION**International Regulation****UNRTDG**

UN number : UN 1987
Proper shipping name : ALCOHOLS, N.O.S.


PURELL® Advanced Hand Sanitizer Aloe Gel

Version	Revision Date:	MSDS Number:	Date of last issue: 02/10/2015
1.2	03/18/2015	36799-00003	Date of first issue: 12/12/2014

(Ethanol, Propan-2-ol)

Class : 3
 Packing group : III
 Labels : 3

IATA-DGR

UN/ID No. : UN 1987
 Proper shipping name : Alcohols, n.o.s.
 (Ethanol, Propan-2-ol)

Class : 3
 Packing group : III
 Labels : Flammable Liquids
 Packing instruction (cargo aircraft) : 366
 Packing instruction (passenger aircraft) : 355

IMDG-Code

UN number : UN 1987
 Proper shipping name : ALCOHOLS, N.O.S.
 (Ethanol, Propan-2-ol)

Class : 3
 Packing group : III
 Labels : 3
 EmS Code : F-E, S-D
 Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation
49 CFR

UN/ID/NA number : UN 1987
 Proper shipping name : ALCOHOLS, N.O.S.

Class : 3
 Packing group : III
 Labels : FLAMMABLE LIQUID
 ERG Code : 127
 Marine pollutant : no

SECTION 15. REGULATORY INFORMATION
EPCRA - Emergency Planning and Community Right-to-Know
CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard


PURELL® Advanced Hand Sanitizer Aloe Gel

Version	Revision Date:	MSDS Number:	Date of last issue: 02/10/2015
1.2	03/18/2015	36799-00003	Date of first issue: 12/12/2014

Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Propan-2-ol	67-63-0	3.4086 %
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US State Regulations
Pennsylvania Right To Know

Ethanol	64-17-5	50 - 70 %
Water	7732-18-5	30 - 50 %
Propan-2-ol	67-63-0	1 - 5 %

New Jersey Right To Know

Ethanol	64-17-5	50 - 70 %
Water	7732-18-5	30 - 50 %
Propan-2-ol	67-63-0	1 - 5 %

California Prop 65 This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

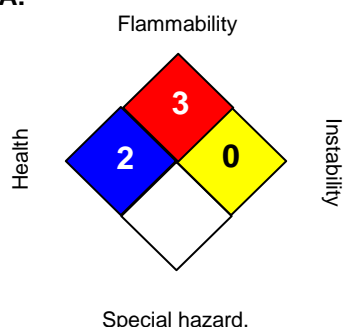
AICS : All ingredients listed or exempt.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECl (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

PURELL® Advanced Hand Sanitizer Aloe Gel

Version 1.2 Revision Date: 03/18/2015 MSDS Number: 36799-00003 Date of last issue: 02/10/2015
 Date of first issue: 12/12/2014

SECTION 16. OTHER INFORMATION
Further information
NFPA:

HMIS III:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
ACGIH BEI	: ACGIH - Biological Exposure Indices (BEI)
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit
NIOSH REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA Z-1 / TWA	: 8-hour time weighted average

Sources of key data used to compile the Material Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date : 03/18/2015

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8



SAFETY DATA SHEET

Refresh Azure FOAM

1. Identification

Product identifier

Product name	Refresh Azure FOAM
Product number	AZU120TF-US,AZU1L-US,AZU1LG-US,AZU1LO-US,AZU2LT-US,AZU47ML-US,AZU400ML-US,57220,57224,57226,59220,59224,59226,51105,AZU16LC-US
Internal identification	51311 / 0009
Synonyms; trade names	AeroBlue Foam Hand & Body Shampoo, Deb Azure Foam Wash

Details of the supplier of the safety data sheet

Supplier	Deb USA, Inc. 2815 Coliseum Centre Drive, Suite 600 Charlotte, North Carolina 28217 USA 800-248-7190
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Manufacturer	Deb USA, Inc. 1100 South Highway 27 Stanley, North Carolina 28164 USA 704-263-4502 (Fax) 704-263-4240
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Emergency telephone number

Emergency telephone	Chemtrec 800 424 9300 (24 hour)
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2. Hazard(s) identification

Classification of the substance or mixture

Physical hazards	Not Classified
Health hazards	Eye Irrit. 2B - H320
Environmental hazards	Not Classified

Label elements

Signal word	Warning
Hazard statements	H320 Causes eye irritation.
Precautionary statements	P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention.

3. Composition/information on ingredients

Mixtures

Composition comments	Aqua (Water), Sodium Laureth Sulfate, Propylene Glycol, PEG-7 Glyceryl Cocoate, Glycerin, Cocamidopropyl Betaine, 2-Bromo-2-nitropropane-1,3-diol, Parfum (Fragrance), Citric Acid, Methylchloroisothiazolinone, Methylisothiazolinone, Blue 1 (CI 42090).
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Refresh Azure FOAM

4. First-aid measures

Description of first aid measures

Inhalation	Not relevant. Unlikely route of exposure as the product does not contain volatile substances.
Ingestion	Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.
Skin Contact	Not applicable.
Eye contact	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention promptly if symptoms occur after washing.

Most important symptoms and effects, both acute and delayed

Inhalation	No specific symptoms known.
Ingestion	No specific symptoms known.
Skin contact	Prolonged skin contact may cause redness and irritation.
Eye contact	May cause temporary eye irritation.

Indication of immediate medical attention and special treatment needed

Notes for the doctor	No specific recommendations.
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5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

Special hazards arising from the substance or mixture

Hazardous combustion products No known hazardous decomposition products.

Advice for firefighters

Protective actions during firefighting No specific firefighting precautions known.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with eyes.

Environmental precautions

Environmental precautions Not considered to be a significant hazard due to the small quantities used.

Methods and material for containment and cleaning up

Methods for cleaning up Flush away spillage with plenty of water. Avoid runoff into storm sewers and ditches which lead to waterways.

Reference to other sections For waste disposal, see Section 13.

7. Handling and storage

Precautions for safe handling

Usage precautions Avoid contact with eyes.

Conditions for safe storage, including any incompatibilities

Refresh Azure FOAM

Storage precautions Keep only in the original container.

Specific end uses(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

8. Exposure Controls/personal protection

Exposure controls

Appropriate engineering controls Not relevant.

Eye/face protection Not required normally but wear eye protection if you are conducting an operation where there is a risk of this product getting in the eyes.

Hand protection Not applicable.

Respiratory protection No specific recommendations.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Appearance Liquid

Color Blue.

Odor Fragrant.

pH pH (concentrated solution): 6.0 - 7.0

Relative density approx. 1.01

10. Stability and reactivity

Reactivity There are no known reactivity hazards associated with this product.

Stability Stable at normal ambient temperatures.

Possibility of hazardous reactions Not known.

Conditions to avoid There are no known conditions that are likely to result in a hazardous situation.

Materials to avoid No specific material or group of materials is likely to react with the product to produce a hazardous situation.

Hazardous decomposition products Does not decompose when used and stored as recommended.

11. Toxicological information

Information on toxicological effects

Toxicological effects All ingredients are well known and have a history of safe use in the marketplace with no reports of a significant number of adverse reactions.

Inhalation No specific health hazards known.

Ingestion May cause gastrointestinal irritation or discomfort with nausea, vomiting and diarrhea if swallowed.

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Skin Contact Skin irritation should not occur when used as recommended.

Eye contact May cause temporary eye irritation.

12. Ecological Information

Ecotoxicity Not regarded as dangerous for the environment.

Bioaccumulative potential

Bio-Accumulative Potential No data available on bioaccumulation.

Mobility in soil

Mobility The product is soluble in water.

Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Other adverse effects

Other adverse effects None known.

13. Disposal considerations

Waste treatment methods

General information When handling waste, the safety precautions applying to handling of the product should be considered.

Disposal methods Dispose in accordance with local, state and federal regulations.

14. Transport information

Road transport notes Not classified.

Rail transport notes Not classified.

Sea transport notes Not classified.

Air transport notes Not classified.

UN Number

Not applicable.

UN proper shipping name

Not applicable.

Transport hazard class(es)

Not applicable.

Packing group

Not applicable.

Environmental hazards

Environmentally Hazardous Substance

No.

Special precautions for user

Not applicable.

Refresh Azure FOAM

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

Regulatory Status This product is manufactured and labeled in compliance with the Federal Food, Drug, and Cosmetic Act, and is exempt from the labeling requirements of the OSHA Hazard Communication Standard. All components of this product are either on the TSCA 8(b) inventory or otherwise exempt from listing.

16. Other information

Revision comments	Revision of information
Revision date	6/1/2015
Revision	3
Supersedes date	3/10/2015
SDS No.	11607
Hazard statements in full	H320 Causes eye irritation.
Notes For Risk Phrases And Hazard Statements In Full	The full text for Risk Phrases and Hazard Statements in section 16 relates to the reference numbers in sections 2 and 3 and not necessarily the finished product classification.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

1. Product and Company Identification

Product identifier	Sani-Cloth Disinfecting Wipes	SDS 0089-00
Other means of identification	Not available	
Recommended use	Hard, Nonporous Surface Disinfectant	
Recommended restrictions	Not a baby wipe.	
Manufacturer	Professional Disposables International, Inc. Two Nice-Pak Park, Orangeburg, NY 10962-1376 Phone: (USA) 1-845-365-1700 (M-F 9am - 5pm) Emergency Phone: 1-800-999-6423 or Distributed By:	

2. Hazards Identification

Physical hazards	Not classified.	
Health hazards	Serious eye damage/eye irritation	Category 2B
Environmental hazards	Not determined.	
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	Warning	
Hazard statement	Causes eye irritation.	
Precautionary statement		
Prevention	Wash thoroughly after handling.	
Response	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
Storage	Store away from incompatible materials.	
Disposal	Dispose of waste and residues in accordance with local authority requirements.	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	Not applicable.	

3. Composition/Information on Ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	%
Benzyl-C12-18-alkyldimethyl ammonium chlorides		68391-01-5	0.14
Quaternary ammonium compounds, C12-18-alkyl [(ethylphenyl) methyl] dimethyl, chlorides		68956-79-6	0.14

Composition comments Active ingredients are listed above. All remaining ingredients are withheld as trade secret in accordance with paragraph (i) of the OSHA HCS 1910.1200.

4. First Aid Measures

Inhalation	Not a normal route of exposure. If symptoms develop move victim to fresh air.
Skin contact	Rinse skin with water/shower. Get medical attention if irritation develops and persists.
Eye contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Ingestion	Not a normal route of exposure. Call poison control center or doctor for treatment advice.
Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause moderate eye irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Call a Poison Control Center or doctor for treatment advice. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Take container, label, product name or DIN / EPA Number with you when seeking medical attention.

5. Fire Fighting Measures

Suitable extinguishing media	Treat for surrounding material.
Unsuitable extinguishing media	None known.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	In the event of fire, cool product with water spray.
Specific methods	Cool product exposed to flames with water until well after the fire is out.
General fire hazards	No unusual fire or explosion hazards noted.
Hazardous combustion products	Not available
Explosion data	
Sensitivity to mechanical impact	Not available.
Sensitivity to static discharge	Not available.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Avoid excessive skin contact. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. For waste disposal, see section 13 of the SDS.
Environmental precautions	Do not discharge into lakes, streams, ponds or public waters.

7. Handling and Storage

Precautions for safe handling	Use according to package label instructions. Practice good housekeeping. This is not a baby wipe. Avoid contact with eyes. Do not reuse wipe / towelette.
Conditions for safe storage, including any incompatibilities	Store away from heat. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). Keep out of reach of children.

8. Exposure Controls/Personal Protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Biological limit values	No biological exposure limits noted for the ingredient(s).
Exposure guidelines	This material does not have established exposure limits.
Appropriate engineering controls	General ventilation normally adequate.
Individual protection measures, such as personal protective equipment	
Eye/face protection	Not required under normal use conditions.
Skin protection	
Hand protection	Not required under normal use conditions.
Other	Not normally required.
Respiratory protection	Not normally required under normal use conditions. Where exposure guideline levels may be exceeded, use an approved NIOSH respirator.

Thermal hazards	Not available.
General hygiene considerations	Follow good hygienic and housekeeping practices.

9. Physical and Chemical Properties

Appearance	Liquid saturated on wipe
Physical state	Solid.
Form	Pre-moistened towelette.
Color	White
Odor	Slight solvent
Odor threshold	Not available.
pH	7.0 (liquid)
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Pour point	Not available.
Specific gravity	1.02
Partition coefficient (n-octanol/water)	Not available.
Flash point	> 203.0 °F (> 95.0 °C) (liquid)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

10. Stability and Reactivity

Reactivity	This product may react with strong oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Do not use on natural marble, windows, unpainted wood, brass, clear plastic or colored grout. Do not use or store near heat or open flame. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Acids.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon. Ammonia

11. Toxicological Information

Routes of exposure	Eye, Skin contact, Inhalation, Ingestion.
Information on likely routes of exposure	
Ingestion	Health injuries are not known or expected under normal use.
Inhalation	Health injuries are not known or expected under normal use.
Skin contact	Health injuries are not known or expected under normal use.
Eye contact	Health injuries are not known or expected under normal use.

Symptoms related to the physical, chemical and toxicological characteristics

There are no hazards associated with this product in normal use.

Information on toxicological effects

Acute toxicity

Components	Species	Test Results
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Benzyl-C12-18-alkyldimethyl ammonium chlorides (CAS 68391-01-5)

Acute

Dermal

LD50	Rat	2000 mg/kg
		1420 mg/kg

Inhalation

LC50	Not available	
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Oral

LD50	Mouse	150 mg/kg
	Rat	240 mg/kg

Quaternary ammonium compounds, C12-18-alkyl [(ethylphenyl) methyl] dimethyl, chlorides (CAS 68956-79-6)

Acute

Dermal

LD50	Not available	
------	---------------	--

Inhalation

LC50	Not available	
------	---------------	--

Oral

LD50	Rat	250 mg/kg
------	-----	-----------

Skin corrosion/irritation

Non-irritating based on test data.

Exposure minutes

Not available.

Erythema value

Not available.

Oedema value

Not available.

Serious eye damage/eye irritation

May be irritating to eyes.

Corneal opacity value

Not available.

Iris lesion value

Not available.

Conjunctival reddening value

Not available.

Conjunctival oedema value

Not available.

Recover days

Not available.

Respiratory or skin sensitization

Respiratory sensitization

Not available.

Skin sensitization

Not a skin sensitizer based on test data.

Germ cell mutagenicity

The finished product is not expected to have chronic health effects.

Mutagenicity

The finished product is not expected to have chronic health effects.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Teratogenicity

The finished product is not expected to have chronic health effects.

Specific target organ toxicity - single exposure

Not classified.

Specific target organ toxicity - repeated exposure

Not classified.

Aspiration hazard

Not classified.

Chronic effects

Not classified.

Further information

This product has no known adverse effect on human health.

Name of Toxicologically Synergistic Products

Not available.

12. Ecological Information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Mobility in general	Not available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal Considerations

Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations. Follow container label directions carefully. Do not reuse towelette. Dispose of used towelette in trash. Do not flush in toilet.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	Assign as required.
Waste from residues / unused products	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). Dispose of in accordance with local regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

U.S. Department of Transportation (DOT)

Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations	<p>This product is NOT known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.</p> <p>This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.</p> <p>PRECAUTIONARY STATEMENTS: Hazards to humans and Domestic animals. CAUTION: Causes moderate eye irritation. Avoid contact with eyes and clothing. Wash hands thoroughly with soap and water after handling and before eating and drinking, chewing gum, using tobacco or using toilet.</p> <p>EPA Reg. # 9480-5</p>
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TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - No
 Delayed Hazard - No
 Fire Hazard - No
 Pressure Hazard - No
 Reactivity Hazard - No

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)
 Not regulated.

Other federal regulations

Safe Drinking Water Act (SDWA) Not regulated.

Food and Drug Administration (FDA) Not regulated.

US state regulations This product is not subject to warning labeling under the California Proposition 65 regulation.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
 Not listed.

US - Texas Effects Screening Levels: Listed substance
 Benzyl-C12-18-alkyldimethyl ammonium chlorides Listed.
 (CAS 68391-01-5)

US. Massachusetts RTK - Substance List
 Not regulated.

US. Pennsylvania RTK - Hazardous Substances
 Not regulated.

US. Rhode Island RTK
 Not regulated.

Inventory status

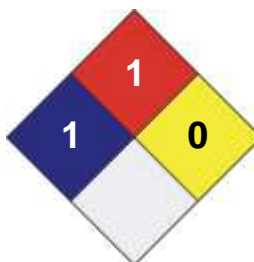
Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/ 1
FLAMMABILITY	1
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X



Disclaimer

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date 08-May-2015

Effective date 08-May-2015

Expiry date 08-May-2018

Further information For any questions surrounding this SDS, please contact the supplier/manufacturer listed on the first page of the document.

Revision 0.
 Based on bulk liquid 4OU16501.

Prepared by

Professional Disposables International, Inc. Phone: 1-845-365-1700

Other information

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.



Safety Data Sheet

Spartan Chemical Company, Inc.

Revision Date: 01-Dec-2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: SHINELINE EMULSIFIER PLUS
Product Number: 0084
Recommended Use: Stripping solution
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:

Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

Acute Toxicity - Oral: Category 4
Acute toxicity - Inhalation (Vapors): Category 3
Skin Corrosion/Irritation: Category 1 Sub-category B
Serious Eye Damage/Eye Irritation: Category 1
Corrosive to Metals: Category 1

GHS Label Elements

Signal Word:

Symbols:

Danger



Hazard Statements:

Harmful if swallowed.
Toxic if inhaled
Causes severe skin burns and serious eye damage.
May be corrosive to metals.

Precautionary Statements:

Prevention:

Wash hands and any exposed skin thoroughly after handling.
Do not eat, drink or smoke when using this product
Use only outdoors or in a well-ventilated area.
Do not breathe mist, vapors or spray.
Wear protective gloves. Wear eye / face protection. Wear protective clothing.
Keep in original or other corrosion resistant container.

Response:

-Eyes

IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

-Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse.

-Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
-Ingestion:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
-Specific Treatment:	See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.
Spill:	Absorb spillage to prevent material damage.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosion resistant container.
Disposal:	Dispose of contents and container in accordance with local, state and federal regulations.
Hazards Not Otherwise Classified:	Not Applicable
Other Information:	<ul style="list-style-type: none"> • Corrosive. • Harmful or fatal if swallowed. • Harmful contact may not cause immediate pain. • Take off and destroy contaminated shoes. • Keep out of reach of children. • NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
water	7732-18-5	30-60
2-butoxyethanol	111-76-2	10-30
sodium xylene sulfonate	1300-72-7	1-5
monoethanolamine	141-43-5	1-5
sodium hydroxide	1310-73-2	1-5
phosphate ester	68130-47-2	1-5
sodium silicate	1344-09-8	1-5

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

-Eye Contact:	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
-Skin Contact:	Take off immediately all contaminated clothing and shoes. Rinse with water or shower for at least 15 minutes. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Wash contaminated clothing before reuse. Discard or destroy contaminated shoes.
-Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN.
-Ingestion:	Rinse mouth. Do NOT induce vomiting. IMMEDIATELY CALL A POISON CENTER OR PHYSICIAN. Never give anything by mouth to an unconscious person.
Note to Physicians:	NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire
Specific Hazards Arising from the Chemical:	Dried product is capable of burning. Combustion products are toxic.
Hazardous Combustion Products:	May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
Protective Equipment and Precautions for Firefighters:	Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Environmental Precautions: Do not rinse spill onto the ground, into storm sewers or bodies of water.
Methods for Clean-Up: Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.
Storage Conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
2-butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m ³ (vacated) TWA: 25 ppm (vacated) TWA: 120 mg/m ³ (vacated) S* S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³
monoethanolamine 141-43-5	STEL: 6 ppm TWA: 3 ppm	TWA: 3 ppm TWA: 6 mg/m ³ (vacated) TWA: 3 ppm (vacated) TWA: 8 mg/m ³ (vacated) STEL: 6 ppm (vacated) STEL: 15 mg/m ³	IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m ³ STEL: 6 ppm STEL: 15 mg/m ³
sodium hydroxide 1310-73-2	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³

Engineering Controls: Provide good general ventilation.
If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.

Personal Protective Equipment

Eye/Face Protection: Wear splash goggles. For severe use-conditions, wear a face shield over the goggles.

Skin and Body Protection: Wear rubber or other chemical-resistant gloves and solvent / alkali resistant boots. The use of other protective equipment should be considered in order to prevent or minimize contact with this product.

Respiratory Protection: Not required with expected use.
If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

General Hygiene Considerations: Wash hands and any exposed skin thoroughly after handling.
See 29 CFR 1910.132-138 for further guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Liquid
Color:	Clear
Odor:	Fresh
pH:	13.4-14.0
Melting Point / Freezing Point:	No information available.
Boiling Point / Boiling Range:	100 °C / 212 °F
Flash Point:	> 100 °C / > 212 °F ASTM D56
Evaporation Rate:	< 1 (BuAc = 1)
Flammability (solid, gas)	No information available.
Upper Flammability Limit:	No information available.
Lower Flammability Limit:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Specific Gravity:	1.04
Solubility(ies):	Soluble in water
Partition Coefficient:	No information available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

10. STABILITY AND REACTIVITY

Reactivity:	This material is considered to be non-reactive under normal conditions of use.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	Contact with aluminum or other reactive metals may release hydrogen gas.
Conditions to Avoid:	Extremes of temperature and direct sunlight.
Incompatible Materials:	Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products:	May include carbon monoxide, carbon dioxide (CO ₂) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Eyes, Skin, Ingestion, Inhalation.
Symptoms of Exposure:	
-Eye Contact:	Pain, redness, swelling of the conjunctiva and tissue damage. Eye contact may cause permanent damage.
-Skin Contact:	Pain, redness, blistering and possible chemical burn.
-Inhalation:	Irritation or damage to the mucus membranes of the respiratory tract. Nasal discomfort and coughing.
-Ingestion:	Damage or chemical burns to mouth, throat and stomach. Pain, nausea, vomiting and diarrhea.
Immediate, Delayed, Chronic Effects	
Product Information:	Data not available or insufficient for classification.
Chronic Toxicity:	May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.
Target Organ Effects:	Blood. Central nervous system. -Eyes. hematopoietic system. kidney. Liver. Respiratory System. -Skin.
Numerical Measures of Toxicity	
The following acute toxicity estimates (ATE) are calculated based on the GHS document.	
ATEmix (oral):	1608 mg/kg
ATEmix (dermal):	3200 mg/kg
ATEmix (inhalation-dust/mist):	6.7 mg/l
ATEmix (inhalation-vapor):	7.9 mg/l

Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
water 7732-18-5	> 90 mL/kg (Rat)	Not Available	Not Available
2-butoxyethanol 111-76-2	= 470 mg/kg (Rat)	= 2270 mg/kg (Rat) = 220 mg/kg (Rabbit)	= 2.21 mg/L (Rat) 4 h = 450 ppm (Rat) 4 h
sodium xylene sulfonate 1300-72-7	= 7200 mg/kg (Rat)	Not Available	Not Available
monoethanolamine 141-43-5	= 1720 mg/kg (Rat)	= 1 mL/kg (Rabbit) = 1025 mg/kg (Rabbit)	Not Available
sodium hydroxide 1310-73-2	Not Available	= 1350 mg/kg (Rabbit)	Not Available
sodium silicate 1344-09-8	= 1153 mg/kg (Rat)	> 4640 mg/kg (Rabbit)	Not Available

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
2-butoxyethanol 111-76-2	Not Available	1490: 96 h Lepomis macrochirus mg/L LC50 static 2950: 96 h Lepomis macrochirus mg/L LC50	Not Available	1698 - 1940: 24 h Daphnia magna mg/L EC50 1000: 48 h Daphnia magna mg/L EC50
monoethanolamine 141-43-5	15: 72 h Desmodesmus subspicatus mg/L EC50	227: 96 h Pimephales promelas mg/L LC50 flow-through 3684: 96 h Brachydanio rerio mg/L LC50 static 300 - 1000: 96 h Lepomis macrochirus mg/L LC50 static 114 - 196: 96 h Oncorhynchus mykiss mg/L LC50 static 200: 96 h Oncorhynchus mykiss mg/L LC50 flow-through	Not Available	65: 48 h Daphnia magna mg/L EC50
sodium hydroxide 1310-73-2	Not Available	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	Not Available	Not Available
sodium silicate 1344-09-8	Not Available	301 - 478: 96 h Lepomis macrochirus mg/L LC50 3185: 96 h Brachydanio rerio mg/L LC50 semi-static	Not Available	216: 96 h Daphnia magna mg/L EC50

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

US EPA Waste Number: D002

14. TRANSPORT INFORMATION

DOT:

UN/ID No: 1760

Proper Shipping Name: Corrosive liquids, n.o.s., (contains sodium hydroxide)

Hazard Class: 8

Packing Group: II

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313

This product contains the following listed substances:

2-butoxyethanol

CAS No 111-76-2 applies to R-(OCH₂CH₂)_n-OR', where n = 1, 2, or 3, R=Alkyl C7 or less, or R = Phenyl or Alkyl substituted phenyl, R' = H or Alkyl C7 or less, or OR' consisting of Carboxylic acid ester, Sulfate, Phosphate, Nitrate, or Sulfonate, Chemical Category N230

SARA 311/312 Hazard Categories

Acute Health Hazard:	Yes
Chronic Health Hazard:	Yes
Fire Hazard:	No
Sudden release of pressure hazard:	No
Reactive Hazard:	No

California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name	California Proposition 65
diethanolamine - 111-42-2	Carcinogen
dioxane - 123-91-1	Carcinogen

WARNING: This product contains a chemical known to the State of California to cause cancer.

16. OTHER INFORMATION

NFPA	Health Hazards: 3	Flammability: 0	Instability: 0	Special: N/A
HMIS	Health Hazards: 3*	Flammability: 0	Physical Hazards: 0	

Revision Date: 01-Dec-2014
Reasons for Revision: No information available.

Disclaimer:

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



Safety Data Sheet

Spartan Chemical Company, Inc.

Revision Date: 14-Oct-2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: DUST MOP DUST CLOTH TREATMENT
Product Number: 3013 , 3213
Recommended Use: Dust cloth treatment
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:

Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

Serious Eye Damage/Eye Irritation: Category 2B

GHS Label Elements

Signal Word:

Warning

Causes eye irritation.

Hazard Statements:

Precautionary Statements:

Prevention:

Wash hands and any exposed skin thoroughly after handling.

Response:

-Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

-Specific Treatment:

Storage:

Not Applicable

Disposal:

Not Applicable

Hazards Not Otherwise Classified: Not Applicable

Other Information:

- May be harmful if swallowed.
- May cause skin irritation.
- Inhalation of vapors or mist may cause respiratory irritation.
- Keep out of reach of children.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100
Hydrotreated Middle Alkanes	64742-46-7	1-5
Triethylene Glycol	112-27-6	1-5

C12-15 Alcohols Ethoxylated	68131-39-5	1-5
Oleic Acid	112-80-1	0.1-1
Undeceth-3	34398-01-1	0.1-1
Triethanolamine	102-71-6	0.1-1
Sodium Hydroxide	1310-73-2	0.1-1
Fragrance	PROPRIETARY	<0.1
Methylchloroisothiazolinone	26172-55-4	<0.1
Methylisothiazolinone	2682-20-4	<0.1
Dimethicone	63148-62-9	<0.1

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

- Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- Skin Contact:** Wash with soap and water. If skin irritation occurs: Get medical attention.
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
- Ingestion:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.
- Note to Physicians:** Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:** Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire
- Specific Hazards Arising from the Chemical:** Dried product is capable of burning. Combustion products are toxic.
- Hazardous Combustion Products:** May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
- Protective Equipment and Precautions for Firefighters:** Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
- Environmental Precautions:** Do not rinse spill onto the ground, into storm sewers or bodies of water.
- Methods for Clean-Up:** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

- Advice on Safe Handling:** Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.
- Storage Conditions:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.
- Suggested Shelf Life:** Minimum of 2 years from date of manufacture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
Triethanolamine 102-71-6	TWA: 5mg/m ³	-	-
Sodium Hydroxide 1310-73-2	Ceiling: 2 mg/m ³	TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³	IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³

Engineering Controls: Provide good general ventilation.
If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.

Personal Protective Equipment

Eye/Face Protection: Not required with expected use.

Skin and Body Protection: Not required with expected use.

Respiratory Protection: Not required with expected use.

If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

General Hygiene Considerations: Wash hands and any exposed skin thoroughly after handling.
See 29 CFR 1910.132-138 for further guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Liquid
Color:	White emulsion
Odor:	Fresh
pH:	8.5-9.5
Melting Point / Freezing Point:	No information available.
Boiling Point / Boiling Range:	100 °C / 212 °F
Flash Point:	> 100 °C / > 212 °F ASTM D56
Evaporation Rate:	< 1 (Butyl acetate = 1)
Flammability (solid, gas)	No information available.
Upper Flammability Limit:	No information available.
Lower Flammability Limit:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Specific Gravity:	1.00
Solubility(ies):	Miscible in water
Partition Coefficient:	No information available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

10. STABILITY AND REACTIVITY

Reactivity: This material is considered to be non-reactive under normal conditions of use.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Not expected to occur with normal handling and storage.

Conditions to Avoid: Extremes of temperature and direct sunlight.

Incompatible Materials: Strong oxidizing agents. Strong acids.

Hazardous Decomposition Products: May include carbon monoxide, carbon dioxide (CO₂) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation.

Symptoms of Exposure:

-Eye Contact: Pain, redness, swelling of the conjunctiva and blurred vision.

-Skin Contact: Drying of the skin.

-Inhalation: Nasal discomfort and coughing.

-Ingestion: Pain, nausea, vomiting and diarrhea.

Immediate, Delayed, Chronic Effects

Product Information: Data not available or insufficient for classification.

Target Organ Effects: Central nervous system. -Eyes. Respiratory System. -Skin.

Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral): 8997 mg/kg
ATEmix (dermal): 30916 mg/kg

Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	Not Available	Not Available
Hydrotreated Middle Alkanes 64742-46-7	= 7400 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 4.6 mg/L (Rat) 4 h
Triethylene Glycol 112-27-6	= 17 g/kg (Rat)	> 20 mL/kg (Rabbit)	Not Available
C12-15 Alcohols Ethoxylated 68131-39-5	= 1600 mg/kg (Rat)	= 2500 mg/kg (Rabbit)	Not Available
Oleic Acid 112-80-1	= 25 g/kg (Rat)	Not Available	Not Available
Triethanolamine 102-71-6	= 4190 mg/kg (Rat)	> 20 mL/kg (Rabbit)	Not Available
Sodium Hydroxide 1310-73-2	Not Available	= 1350 mg/kg (Rabbit)	Not Available
Methylchloroisothiazolinone 26172-55-4	= 481 mg/kg (Rat)	Not Available	= 1.23 mg/L (Rat) 4 h
Dimethicone 63148-62-9	> 24 g/kg (Rat)	Not Available	Not Available

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
Hydrotreated Middle Alkanes 64742-46-7	Not Available	35: 96 h Pimephales promelas mg/L LC50 flow-through 10000: 96 h Pimephales promelas mg/L LC50 static	Not Available	Not Available
Triethylene Glycol 112-27-6	Not Available	56200 - 63700: 96 h Pimephales promelas mg/L LC50 flow-through 10000: 96 h Lepomis macrochirus mg/L LC50 static 61000: 96 h Lepomis macrochirus mg/L LC50 flow-through	Not Available	42426: 48 h Daphnia magna mg/L EC50
Oleic Acid 112-80-1	Not Available	205: 96 h Pimephales promelas mg/L LC50 static	Not Available	Not Available
Triethanolamine 102-71-6	216: 72 h Desmodesmus subspicatus mg/L EC50 169: 96 h Desmodesmus subspicatus mg/L EC50	10600 - 13000: 96 h Pimephales promelas mg/L LC50 flow-through 1000: 96 h Pimephales promelas mg/L LC50 static 450 - 1000: 96 h Lepomis macrochirus mg/L LC50 static	Not Available	Not Available
Sodium Hydroxide 1310-73-2	Not Available	45.4: 96 h Oncorhynchus mykiss mg/L LC50 static	Not Available	Not Available
Methylchloroisothiazolinone 26172-55-4	0.11 - 0.16: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 0.03 - 0.13: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	1.6: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	Not Available	4.71: 48 h Daphnia magna mg/L EC50 0.12 - 0.3: 48 h Daphnia magna mg/L EC50 Flow through 0.71 - 0.99: 48 h Daphnia magna mg/L EC50 Static

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.
Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT: Not Regulated
Proper Shipping Name: Non Hazardous Product
Special Provisions: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

IMDG: Not Regulated
Proper Shipping Name: Non Hazardous Product

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)
 All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313

This product does not contain listed substances above the "de minimus" level

SARA 311/312 Hazard Categories

Acute Health Hazard:	Yes
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden release of pressure hazard:	No
Reactive Hazard:	No

California Proposition 65

This product is not subject to warning requirements under California Proposition 65.

16. OTHER INFORMATION

NFPA	Health Hazards: 1	Flammability: 0	Instability: 0	Special: N/A
HMIS	Health Hazards: 1	Flammability: 0	Physical Hazards: 0	

Revision Date: 14-Oct-2019
Reasons for Revision: Revised formula

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



Spartan Chemical Company, Inc.

WHMIS Safety Data Sheet

Revision Date: 28-Nov-2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: GREEN SOLUTIONS RESTROOM CLEANER
Product Number: 3403C
Recommended Use: Restroom cleaner
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc. Canadian Agent:
1110 Spartan Drive Perley-Robertson, Hill & McDougal, LLP
Maumee, Ohio 43537 USA 340 Albert Street, Suite 1400
800-537-8990 (Business hours) Ottawa, ON, Canada K1R 0A5
www.spartanchemical.com

Medical Emergency/Information: 888-314-6171 (24 Hour)

2. HAZARDS IDENTIFICATION

GHS Classification

Serious Eye Damage/Eye Irritation: Category 2A

GHS Label Elements

Signal Word:

Warning

Symbols:



Hazard Statements:

Causes serious eye irritation

Precautionary Statements:

Prevention:

Wash hands and any exposed skin thoroughly after handling.
Wear eye / face protection

Response:

-Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

-Specific Treatment:

Storage:

Not Applicable

Disposal:

Not Applicable

Hazards Not Otherwise Classified: Not Applicable

Other Information:

- May be harmful if swallowed.
- May cause skin irritation.
- Inhalation of vapors or mist may cause respiratory irritation.
- Keep out of reach of children.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
water	7732-18-5	90.0-92.5
citric acid	77-92-9	7.5-10.0
alcohol ethoxylate	68439-46-3	1.0-2.5

4. FIRST AID MEASURES

-Eye Contact:	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
-Skin Contact:	Wash with soap and water. If skin irritation occurs: Get medical attention.
-Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
-Ingestion:	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.
Note to Physicians:	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire
Specific Hazards Arising from the Chemical:	Dried product is capable of burning. Combustion products are toxic.
Hazardous Combustion Products:	May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
Protective Equipment and Precautions for Firefighters:	Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Environmental Precautions:	Do not rinse spill onto the ground, into storm sewers or bodies of water.
Methods for Clean-Up:	Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

Advice on Safe Handling:	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.
Storage Conditions:	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.
Suggested Shelf Life:	Minimum of 2 years from date of manufacture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:	None established.
Engineering Controls:	Provide good general ventilation. If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.
Personal Protective Equipment	
Eye/Face Protection:	Wear splash goggles.
Skin and Body Protection:	Not required with expected use.
Respiratory Protection:	Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.
General Hygiene Considerations:	Wash hands and any exposed skin thoroughly after handling. See 29 CFR 1910.132-138 for further guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Liquid
Color:	Clear
Odor:	Bland
pH:	1.5-2.5
Melting Point / Freezing Point:	No information available.
Boiling Point / Boiling Range:	100 °C / 212 °F
Flash Point:	> 100 °C / > 212 °F
Evaporation Rate:	< 1 (Butyl acetate = 1)
Flammability (solid, gas)	No information available.
Upper Flammability Limit:	No information available.
Lower Flammability Limit:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Specific Gravity:	1.035
Solubility(ies):	Soluble in water
Partition Coefficient:	No information available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

10. STABILITY AND REACTIVITY

Reactivity:	This material is considered to be non-reactive under normal conditions of use.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	Not expected to occur with normal handling and storage.
Conditions to Avoid:	Heat, flames and sparks.
Incompatible Materials:	Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products:	May include carbon monoxide, carbon dioxide (CO ₂) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Eyes, Skin, Ingestion, Inhalation.
Symptoms of Exposure:	
-Eye Contact:	Pain, redness, swelling of the conjunctiva and blurred vision.
-Skin Contact:	Drying of the skin.
-Inhalation:	Nasal discomfort and coughing.
-Ingestion:	Pain, nausea, vomiting and diarrhea.
Immediate, Delayed, Chronic Effects	
Product Information:	Data not available or insufficient for classification.

Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral): 29382 mg/kg

Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
water 7732-18-5	> 90 mL/kg (Rat)	Not Available	Not Available
citric acid 77-92-9	= 3 g/kg (Rat)	Not Available	Not Available
alcohol ethoxylate 68439-46-3	= 1400 mg/kg (Rat)	Not Available	Not Available

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
citric acid 77-92-9	Not Available	1516: 96 h Lepomis macrochirus mg/L LC50 static	Not Available	Not Available

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

TDG / DOT: Not Regulated

Proper Shipping Name: Non Hazardous Product

Special Provisions: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

IMDG: Not Regulated

Proper Shipping Name: Non Hazardous Product

15. REGULATORY INFORMATION

DSL / NDSL Status: (Domestic Substances List / Non-Domestic Substances List)

The chemical substances in this product are included on or exempt from listing on the Canadian DSL / NDSL.

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313

This product does not contain listed substances above the "de minimus" level

SARA 311/312 Hazard Categories

Acute Health Hazard: Yes

Chronic Health Hazard: No

Fire Hazard: No

Sudden release of pressure hazard: No

Reactive Hazard: No

16. OTHER INFORMATION

NFPA

Health Hazards: 1

Flammability: 0

Instability: 0

Special: N/A

HMIS

Health Hazards: 1

Flammability: 0

Physical Hazards: 0

Revision Date: 28-Nov-2017

Reasons for Revision: Section 7 and 9

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



Safety Data Sheet

Spartan Chemical Company, Inc.

Revision Date: 16-Nov-2017

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: SUPER SPRAYBUFF
Product Number: 4450
Recommended Use: Floor finish restorer
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:

Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

Skin Corrosion/Irritation: Category 2
Serious Eye Damage/Eye Irritation: Category 2A

GHS Label Elements

Signal Word:

Warning

Symbols:



Hazard Statements: Causes skin irritation.
Causes serious eye irritation

Precautionary Statements:

Prevention: Wash hands and any exposed skin thoroughly after handling.
Wear eye / face protection
Wear protective gloves

Response:

-Eyes IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
-Skin IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse.
-Specific Treatment: See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

Storage:

Not Applicable

Disposal:

Dispose of contents and container in accordance with local, state and federal regulations.

Hazards Not Otherwise Classified: Not Applicable

Other Information:

- May be harmful if swallowed.
- Keep out of reach of children.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
water	7732-18-5	40-70
petroleum distillates	64741-65-7	10-30
diethylene glycol monoethyl ether	111-90-0	1-5
ethylene-acrylic acid copolymer	9010-77-9	1-5
alcohol ethoxylate	68439-46-3	1-5
triethanolamine	102-71-6	1-5
oleic acid	112-80-1	1-5

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

-Eye Contact:	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
-Skin Contact:	Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical attention.
-Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
-Ingestion:	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.
Note to Physicians:	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Product does not support combustion. Use extinguishing agent suitable for type of surrounding fire.
Specific Hazards Arising from the Chemical:	Dried product is capable of burning. Combustion products are toxic.
Hazardous Combustion Products:	May include Carbon monoxide, Carbon dioxide and other toxic gases or vapors.
Protective Equipment and Precautions for Firefighters:	Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Environmental Precautions:	Do not rinse spill onto the ground, into storm sewers or bodies of water.
Methods for Clean-Up:	Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

Advice on Safe Handling:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe mist, vapors or spray. Do not eat, drink or smoke when using this product.
Storage Conditions:	Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children.
Suggested Shelf Life:	18 months from date of manufacture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limits:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
triethanolamine 102-71-6	TWA: 5mg/m ³	-	-

Engineering Controls:

Provide good general ventilation.
If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.

Personal Protective Equipment**Eye/Face Protection:**

Wear splash goggles.

Skin and Body Protection:

Wear rubber or other chemical-resistant gloves.

Respiratory Protection:

Not required with expected use.

If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

General Hygiene Considerations:

Wash hands and any exposed skin thoroughly after handling.
See 29 CFR 1910.132-138 for further guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Liquid
Color:	White emulsion
Odor:	Floral fragrance
pH:	9.2-9.6
Melting Point / Freezing Point:	No information available.
Boiling Point / Boiling Range:	100 °C / 212 °F
Flash Point:	> 100 °C / > 212 °F ASTM D56
Evaporation Rate:	< 1 (Butyl acetate = 1)
Flammability (solid, gas)	No information available.
Upper Flammability Limit:	No information available.
Lower Flammability Limit:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Specific Gravity:	0.943
Solubility(ies):	Miscible in water
Partition Coefficient:	No information available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	2000 mm ² /s

10. STABILITY AND REACTIVITY

Reactivity:

This material is considered to be non-reactive under normal conditions of use.

Chemical Stability:

Stable under normal conditions.

Possibility of Hazardous Reactions:

Not expected to occur with normal handling and storage.

Conditions to Avoid:

Extremes of temperature and direct sunlight.

Incompatible Materials:

Strong oxidizing agents. Strong acids.

Hazardous Decomposition Products:

May include carbon monoxide, carbon dioxide (CO₂) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:

Eyes, Skin, Ingestion, Inhalation.

Symptoms of Exposure:**-Eye Contact:**

Pain, redness, swelling of the conjunctiva and blurred vision.

-Skin Contact:

Pain, redness and cracking of the skin.

-Inhalation:

Nasal discomfort and coughing.

-Ingestion:

Pain, nausea, vomiting and diarrhea.

Immediate, Delayed, Chronic Effects

Product Information: Data not available or insufficient for classification.

Target Organ Effects: -Eyes. Respiratory System. -Skin.

Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral): 14633 mg/kg

ATEmix (dermal): 8379 mg/kg

ATEmix (inhalation-dust/mist): 107.5 mg/l

Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
water 7732-18-5	> 90 mL/kg (Rat)	Not Available	Not Available
petroleum distillates 64741-65-7	> 7000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.04 mg/L (Rat) 4 h
diethylene glycol monoethyl ether 111-90-0	= 10502 mg/kg (Rat)	= 9143 mg/kg (Rabbit)	> 5240 mg/m ³ (Rat) 4 h
alcohol ethoxylate 68439-46-3	= 1400 mg/kg (Rat)	Not Available	Not Available
triethanolamine 102-71-6	= 4190 mg/kg (Rat)	> 20 mL/kg (Rabbit)	Not Available
oleic acid 112-80-1	= 25 g/kg (Rat)	Not Available	Not Available

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
petroleum distillates 64741-65-7	30000: 72 h Pseudokirchneriella subcapitata mg/L EC50	Not Available	Not Available	2: 48 h Mysidopsis bahia mg/L LC50
diethylene glycol monoethyl ether 111-90-0	Not Available	10000: 96 h Lepomis macrochirus mg/L LC50 static 19100 - 23900: 96 h Lepomis macrochirus mg/L LC50 flow-through 11400 - 15700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 11600 - 16700: 96 h Pimephales promelas mg/L LC50 flow-through	Not Available	3940 - 4670: 48 h Daphnia magna mg/L EC50
triethanolamine 102-71-6	216: 72 h Desmodesmus subspicatus mg/L EC50 169: 96 h Desmodesmus subspicatus mg/L EC50	10600 - 13000: 96 h Pimephales promelas mg/L LC50 flow-through 1000: 96 h Pimephales promelas mg/L LC50 static 450 - 1000: 96 h Lepomis macrochirus mg/L LC50 static	Not Available	Not Available
oleic acid 112-80-1	Not Available	205: 96 h Pimephales promelas mg/L LC50 static	Not Available	Not Available

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT: Not Regulated
Proper Shipping Name: Non Hazardous Product
Special Provisions: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

IMDG: Not Regulated
Proper Shipping Name: Non Hazardous Product

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313

This product contains the following listed substances:

diethylene glycol monoethyl ether

CAS No 111-90-0 applies to R-(OCH₂CH₂)_n-OR', where n = 1, 2, or 3, R=Alkyl C7 or less, or R = Phenyl or Alkyl substituted phenyl, R' = H or Alkyl C7 or less, or OR' consisting of Carboxylic acid ester, Sulfate, Phosphate, Nitrate, or Sulfonate
 Chemical Category N230

SARA 311/312 Hazard Categories

Acute Health Hazard:	Yes
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden release of pressure hazard:	No
Reactive Hazard:	No

California Proposition 65

This product is not subject to warning requirements under California Proposition 65.

16. OTHER INFORMATION

NFPA	Health Hazards: 2	Flammability: 0	Instability: 0	Special: N/A
HMIS	Health Hazards: 2	Flammability: 0	Physical Hazards: 0	

Revision Date: 16-Nov-2017
Reasons for Revision: Section 7 and 9

Disclaimer:

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End of Safety Data Sheet



Safety Data Sheet

Spartan Chemical Company, Inc.

Revision Date: 11-Aug-2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: SUPERIOR HIGH SHINE STAINLESS STEEL CLEANER & POLISH
Product Number: 6290
Recommended Use: Cleaning agent
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:

Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

Specific Target Organ Toxicity (Single Exposure): Category 3
Flammable Aerosols Category 1
Gases Under Pressure Liquefied gas

GHS Label Elements

Signal Word:

Symbols:

Danger



Hazard Statements:

May cause drowsiness or dizziness
Extremely flammable aerosol.
Contains gas under pressure; may explode if heated

Precautionary Statements:

Prevention:

Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Do not spray on an open flame or other ignition source
Pressurized container: Do not pierce or burn, even after use
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area.
Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Response:

-Inhalation:

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell
See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

-Specific Treatment:

Storage:

Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C) Store in a well-ventilated place Store locked up.

Disposal: Dispose of contents and container in accordance with local, state and federal regulations.

Hazards Not Otherwise Classified: Not Applicable

Other Information:

- May cause skin irritation.
- May cause eye irritation.
- Keep out of reach of children.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
petroleum distillates	64742-47-8	40-70
petroleum distillates	64741-44-2	10-30
N-butane	106-97-8	1-5

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

-Eye Contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

-Skin Contact: Wash with soap and water. If skin irritation occurs: Get medical attention.

-Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.

-Ingestion: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.

Note to Physicians: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray (fog), Foam

Specific Hazards Arising from the Chemical: Extremely flammable aerosol. Exposure to high temperature may cause containers to burst. Bursting aerosol containers may be propelled from fire at high speed.

Hazardous Combustion Products: May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.

Protective Equipment and Precautions for Firefighters: Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Water may be used to cool closed containers to prevent pressure build-up and possible auto ignition or explosion when exposed to extreme heat.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Environmental Precautions: Do not rinse spill onto the ground, into storm sewers or bodies of water.

Methods for Clean-Up: Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

Advice on Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Wash thoroughly after handling.

Storage Conditions: NFPA 30B Level 3 Aerosol. Do not store in direct sunlight or above 122 F° / 50 C°. Exposure to high temperature may cause containers to burst. Keep out of the reach of children.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH
N-butane 106-97-8	TWA: 1000 ppm	(vacated) TWA: 800 ppm (vacated) TWA: 1900 mg/m ³	TWA: 800 ppm TWA: 1900 mg/m ³

Engineering Controls: Provide good general ventilation.
If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.

Personal Protective Equipment

Eye/Face Protection: Not required with expected use.
Skin and Body Protection: Not required with expected use.
Respiratory Protection: Not required with expected use.
If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

General Hygiene Considerations: Wash hands and any exposed skin thoroughly after handling.
See 29 CFR 1910.132-138 for further guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Aerosol
Color:	No information available.
Odor:	Lemon
pH:	Not applicable
Melting Point / Freezing Point:	No information available.
Boiling Point / Boiling Range:	106 °C / 223 °F (Product without propellant)
Flash Point:	< 38 °C / < 0 °F (Propellant-estimated)
Evaporation Rate:	<1 (Butyl acetate = 1)
Flammability (solid, gas)	No information available.
Upper Flammability Limit:	No information available.
Lower Flammability Limit:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Specific Gravity:	0.760 (Product without propellant)
Solubility(ies):	Negligible
Partition Coefficient:	No information available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

10. STABILITY AND REACTIVITY

Reactivity: This material is considered to be non-reactive under normal conditions of use.
Chemical Stability: Stable under normal conditions.
Possibility of Hazardous Reactions: Not expected to occur with normal handling and storage.
Conditions to Avoid: Extremes of temperature and direct sunlight.
Incompatible Materials: Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products: May include carbon monoxide, carbon dioxide (CO₂) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation.
Symptoms of Exposure:
-Eye Contact: Pain and redness.
-Skin Contact: Drying of the skin.
-Inhalation: Nasal discomfort and coughing.
-Ingestion: Pain, nausea, vomiting and diarrhea.
Immediate, Delayed, Chronic Effects
Product Information: Central nervous system effects including dizziness, nausea and headache.

Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.
 Data not available or insufficient for classification.

Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
petroleum distillates 64742-47-8	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 5.2 mg/L (Rat) 4 h
petroleum distillates 64741-44-2	= 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 1700 mg/m ³ (Rat) 4 h
N-butane 106-97-8	Not Available	Not Available	= 658 mg/L (Rat) 4 h

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
petroleum distillates 64742-47-8	Not Available	45: 96 h Pimephales promelas mg/L LC50 flow-through 2.2: 96 h Lepomis macrochirus mg/L LC50 static 2.4: 96 h Oncorhynchus mykiss mg/L LC50 static	Not Available	4720: 96 h Den-dronereides heteropoda mg/L LC50

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging: Pressurized container: Do not pierce or burn, even after use. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT:

UN/ID No: UN1950

Proper Shipping Name: Aerosols

Hazard Class: 2.1

Special Provisions: This product meets the exception requirements of section 49 CFR 173.306 as a limited quantity and may be shipped as a limited quantity.

IMDG:

UN/ID No: UN1950

Proper Shipping Name: Aerosols

Hazard Class: 2.1
Additional information: Limited Quantity

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)
All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313
This product does not contain listed substances above the "de minimus" level

SARA 311/312 Hazard Categories
Acute Health Hazard: Yes
Chronic Health Hazard: Yes
Fire Hazard: Yes
Sudden release of pressure hazard: Yes
Reactive Hazard: No

California Proposition 65
This product is not subject to warning requirements under California Proposition 65.

16. OTHER INFORMATION

NFPA Health Hazards: 1 Flammability: 4 Instability: 0 Special: N/A
HMIS Health Hazards: 1* Flammability: 4 Physical Hazards: 2

Revision Date: 11-Aug-2015
Reasons for Revision: No information available.

Disclaimer:
The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



Safety Data Sheet

Spartan Chemical Company, Inc.

Revision Date: 03-Oct-2019

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: SPRAYBUFF
Product Number: 4440 , 3040
Recommended Use: Cleaning agent
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:

Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

Not Classified Not classified as hazardous by 29 CFR 1910.1200 (OSHA HazCom-GHS)

GHS Label Elements

Signal Word: No signal word
Symbols: None
Hazard Statements: No hazard statements

Precautionary Statements:

Prevention: Not Applicable

Response:

-Specific Treatment: See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

Storage: Not Applicable

Disposal: Not Applicable

Hazards Not Otherwise Classified: Not Applicable

Other Information:

- May be harmful if swallowed.
- May cause eye irritation.
- May cause skin irritation.
- Inhalation of vapors or mist may cause respiratory irritation.
- Keep out of reach of children.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Water	7732-18-5	60-100
Ethylene/Acrylic Acid Copolymer	9010-77-9	1-5
C12-14 Sec-Pareth-9	84133-50-6	0.1-1

Methylchloroisothiazolinone	26172-55-4	<0.1
Acid Blue 25	6408-78-2	<0.1
Methylisothiazolinone	2682-20-4	<0.1
Fragrance	PROPRIETARY	<0.1

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

- Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
- Skin Contact:** Wash with soap and water. If skin irritation occurs: Get medical attention.
- Inhalation:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
- Ingestion:** Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.
- Note to Physicians:** Treat symptomatically.

5. FIRE-FIGHTING MEASURES

- Suitable Extinguishing Media:** Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire
- Specific Hazards Arising from the Chemical:** Dried product is capable of burning. Combustion products are toxic.
- Hazardous Combustion Products:** May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
- Protective Equipment and Precautions for Firefighters:** Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

- Personal Precautions:** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
- Environmental Precautions:** Do not rinse spill onto the ground, into storm sewers or bodies of water.
- Methods for Clean-Up:** Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

- Advice on Safe Handling:** Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.
- Storage Conditions:** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.
- Suggested Shelf Life:** 18 months from date of manufacture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Occupational Exposure Limits:** None established.
- Engineering Controls:** Provide good general ventilation. If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.
- Personal Protective Equipment**
- Eye/Face Protection:** Not required with expected use.
- Skin and Body Protection:** Not required with expected use.

Respiratory Protection:	Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.
General Hygiene Considerations:	Wash hands and any exposed skin thoroughly after handling. See 29 CFR 1910.132-138 for further guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Liquid
Color:	Light blue
Odor:	Mild
pH:	10.0-10.5
Melting Point / Freezing Point:	No information available.
Boiling Point / Boiling Range:	100 °C / 212 °F
Flash Point:	> 100 °C / > 212 °F ASTM D56
Evaporation Rate:	< 1 (BuAc = 1)
Flammability (solid, gas)	No information available.
Upper Flammability Limit:	No information available.
Lower Flammability Limit:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Specific Gravity:	1.000
Solubility(ies):	Miscible in water
Partition Coefficient:	No information available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

10. STABILITY AND REACTIVITY

Reactivity:	This material is considered to be non-reactive under normal conditions of use.
Chemical Stability:	Stable under normal conditions.
Possibility of Hazardous Reactions:	Not expected to occur with normal handling and storage.
Conditions to Avoid:	Extremes of temperature and direct sunlight.
Incompatible Materials:	Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products:	May include carbon monoxide, carbon dioxide (CO ₂) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure:	Eyes, Skin, Ingestion, Inhalation.
Symptoms of Exposure:	
-Eye Contact:	Pain and redness.
-Skin Contact:	Drying of the skin.
-Inhalation:	Nasal discomfort and coughing.
-Ingestion:	Pain, nausea, vomiting and diarrhea.
Immediate, Delayed, Chronic Effects	
Product Information:	Data not available or insufficient for classification.

Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.
Data not available or insufficient for classification.

Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water 7732-18-5	> 90 mL/kg (Rat)	Not Available	Not Available
C12-14 Sec-Pareth-9 84133-50-6	= 2100 mg/kg (Rat)	Not Available	Not Available

Methylchloroisothiazolinone 26172-55-4	= 481 mg/kg (Rat)	Not Available	= 1.23 mg/L (Rat) 4 h
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Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/Aquatic Plants	Fish	Toxicity to Microorganisms	Crustacea
C12-14 Sec-Pareth-9 84133-50-6	Not Available	3.2: 96 h Pimephales promelas mg/L LC50	Not Available	3.2: 48 h water flea mg/L EC50
Methylchloroisothiazolinone 26172-55-4	0.11 - 0.16: 72 h Pseudokirchneriella subcapitata mg/L EC50 static 0.03 - 0.13: 96 h Pseudokirchneriella subcapitata mg/L EC50 static	1.6: 96 h Oncorhynchus mykiss mg/L LC50 semi-static	Not Available	4.71: 48 h Daphnia magna mg/L EC50 0.12 - 0.3: 48 h Daphnia magna mg/L EC50 Flow through 0.71 - 0.99: 48 h Daphnia magna mg/L EC50 Static

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.
Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT: Not Regulated
Proper Shipping Name: Non-Hazardous Products
Special Provisions: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

IMDG: Not Regulated
Proper Shipping Name: Non-Hazardous Products

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)
 All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313

This product does not contain listed substances above the "de minimus" level

SARA 311/312 Hazard Categories

Acute Health Hazard:	Yes
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden release of pressure hazard:	No
Reactive Hazard:	No

California Proposition 65

This product is not subject to warning requirements under California Proposition 65.

16. OTHER INFORMATION

<u>NFPA</u>	Health Hazards: 1	Flammability: 0	Instability: 0	Special: N/A
<u>HMIS</u>	Health Hazards: 1	Flammability: 0	Physical Hazards: 0	

Revision Date: 03-Oct-2019
Reasons for Revision: Section, 3, 11, and, 12

Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



SAFETY DATA SHEET

Squeegee Off Concentrate

Page: 1
Printed: 09/30/2015
Revision: 09/30/2015
Supersedes Revision: 05/18/2015

1. Product and Company Identification

Product Code: #30116
Product Name: Squeegee Off Concentrate
Company Name: Ettore Products Company
2100 North Loop Rd.
Alameda, CA 94502
Phone Number: (510)748-4130
Web site address: www.ettore.com
Emergency Contact: Domestic & Canada (800)535-5053
International (352)323-3500
Additional Information: #30116L, #30130

2. Hazards Identification

Acute Toxicity: Oral, Category 5

Serious Eye Damage/Eye Irritation, Category 2B

GHS Signal Word: **Warning**

GHS Hazard Phrases: May be harmful if swallowed.
Causes eye irritation.

GHS Precaution Phrases: Wash hands thoroughly after handling.
Keep out of reach of children.

GHS Response Phrases: Call a POISON CENTER/doctor/... if you feel unwell.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists, get medical attention immediately.

GHS Storage and Disposal Phrases: Store in cool dry place at room temperature away from direct sunlight.
Dispose of contents and container according to the local, city, state and federal regulations.

Potential Health Effects (Acute and Chronic):

Inhalation: Not expected to be a problem.
Skin Contact: Not expected to be a problem.
Eye Contact: Contact may cause eye irritation.
Ingestion: Ingestion may cause headache, nausea, and vomiting.

3. Composition/Information on Ingredients

CAS #	Hazardous Components (Chemical Name)	Concentration
166736-08-9	Oxirane, methyl-, polymer with oxirane, mono(2-propylheptyl) ether	Proprietary
68439-46-3	Alcohol ethoxylate	Proprietary



SAFETY DATA SHEET

Squeegee Off Concentrate

Page: 2
Printed: 09/30/2015
Revision: 09/30/2015
Supersedes Revision: 05/18/2015

4. First Aid Measures

Emergency and First Aid

Procedures:

- In Case of Inhalation:** Not expected to be a problem.
- In Case of Skin Contact:** Flush with water for 15 minutes. If irritation persists, call a physician.
- In Case of Eye Contact:** Immediately flush eyes with plenty of water for at least 15 minutes.
- In Case of Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical attention immediately.

5. Fire Fighting Measures

- Flash Pt:** 230.00 F
- Explosive Limits:** LEL: N/A UEL: N/A
- Autoignition Pt:** NE
- Suitable Extinguishing Media:** Water spray, fog or regular foam.
- Fire Fighting Instructions:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.
- Flammable Properties and Hazards:** No data available.

6. Accidental Release Measures

- Protective Precautions, Protective Equipment and Emergency Procedures:** Safety glasses. Protective gloves. Respiratory protection is not required.
- Environmental Precautions:** Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. Avoid release to the environment.
- Steps To Be Taken In Case Material Is Released Or Spilled:** Avoid runoff into storm sewers and ditches which lead to waterways. Dike for later disposal and cover with wet sand or earth. Absorb on sand or vermiculite and place in closed containers for disposal.

7. Handling and Storage

- Precautions To Be Taken in Handling:** Avoid contact with skin and eyes. Wash hands before eating.
- Precautions To Be Taken in Storing:** Store in cool dry place at room temperature away from direct sunlight.

8. Exposure Controls/Personal Protection

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
166736-08-9	Oxirane, methyl-, polymer with oxirane, mono(2-propylheptyl) ether	No data.	No data.	No data.
68439-46-3	Alcohol ethoxylate	No data.	No data.	No data.



SAFETY DATA SHEET

Squeegee Off Concentrate

Page: 3
Printed: 09/30/2015
Revision: 09/30/2015
Supersedes Revision: 05/18/2015

Respiratory Equipment (Specify Type): Respiratory protection is not required.
Eye Protection: Safety glasses.
Protective Gloves: Wear appropriate protective gloves to prevent skin exposure.
Other Protective Clothing: None.
Engineering Controls (Ventilation etc.): No special ventilation requirements.

9. Physical and Chemical Properties

Physical States: [] Gas [X] Liquid [] Solid
Appearance and Odor: Blue Color Liquid with Citrus and Alcohol Fragrance.

Melting Point: NE
Boiling Point: > 212.00 F
Decomposition Temperature: NE
Autoignition Pt: NE
Flash Pt: 230.00 F
Explosive Limits: LEL: N/A UEL: N/A
Specific Gravity (Water = 1): 1.020
Density: 8.5 LB/GA
Vapor Pressure (vs. Air or mm Hg): NE
Vapor Density (vs. Air = 1): NE
Evaporation Rate: NE
Solubility in Water: 100%
Saturated Vapor Concentration: NE
Viscosity: NP
pH: 7 - 10
Percent Volatile: No data.
VOC / Volume: 0.0000 G/L

10. Stability and Reactivity

Stability: Unstable [] Stable [X]
Conditions To Avoid - Instability: None.
Incompatibility - Materials To Avoid: Strong oxidizing agents.
Hazardous Decomposition Or Byproducts: Carbon monoxide, Carbon dioxide.
Possibility of Hazardous Reactions: Will occur [] Will not occur [X]
Conditions To Avoid - Hazardous Reactions: None.



SAFETY DATA SHEET

Squeegee Off Concentrate

Page: 4
Printed: 09/30/2015
Revision: 09/30/2015
Supersedes Revision: 05/18/2015

11. Toxicological Information

Toxicological Information: No data available.
CAS# 68439-46-3:

Carcinogenicity: Acute toxicity, LD50, Oral, Rat, 1378. MG/KG.
Results:
Vascular: Measurement of regional blood flow.
Biochemical: Enzyme inhibition, induction, or change in blood or tissue levels:
Dehydrogenases.
Biochemical: Metabolism (Intermediary): Lipids including transport.
- Journal of the American College of Toxicology., Mary Ann Liebert, Inc., New York, NY,
Vol/p/yr: 10(4),427, 1991
NTP? No IARC Monographs? No OSHA Regulated? No

12. Ecological Information

Results of PBT and vPvB assessment: No data available.
CAS# 68439-46-3:
LC50, Fathead Minnow (Pimephales promelas), 11000. UG/L, 96 H, Mortality, Water temperature: 22.00 C C.
Results:
Morphological changes.
- Acute Toxicity and Structure-Activity Relationships of Nine Alcohol Ethoxylate Surfactants to Fathead Minnow and Daphnia magna, Wong, D.C.L., P.B. Dorn, and E.Y. Chai, 1997

13. Disposal Considerations

Waste Disposal Method: Dispose of contents and container according to the local, city, state and federal regulations.

14. Transport Information

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated.

DOT Hazard Class:

UN/NA Number:

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Not Regulated.

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not Regulated.

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated.

15. Regulatory Information

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
166736-08-9	Oxirane, methyl-, polymer with oxirane, mono(2-propylheptyl) ether	No	No	No
68439-46-3	Alcohol ethoxylate	No	No	No



SAFETY DATA SHEET

Squeegee Off Concentrate

Page: 5
Printed: 09/30/2015
Revision: 09/30/2015
Supersedes Revision: 05/18/2015

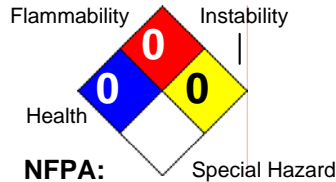
CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
166736-08-9	Oxirane, methyl-, polymer with oxirane, mono(2-propylheptyl) ether	CA PROP.65: No; CA TAC, Title 8: No
68439-46-3	Alcohol ethoxylate	CA PROP.65: No; CA TAC, Title 8: No

16. Other Information

Hazard Rating System:

HEALTH	0
FLAMMABILITY	0
PHYSICAL	0
PPE	B

HMIS:



Revision Date: 09/30/2015

Additional Information About This Product: No data available.

Company Policy or Disclaimer:

The manufacturer believes the data set forth are accurate and makes no warranty with respects thereto and disclaims all liability for reliance thereon. Such data are offered solely for consideration, investigation and verification. Also, the data set forth is for the concentrated finished product. All lab samples are for experimental purposes only and used at the customers discretion.



Safety Data Sheet

Date Issued: 1/12/2018

SECTION 1: IDENTIFICATION OF THE PREPARATION AND THE COMPANY

PRODUCT NAME: Super- Sorb
RECOMMENDED USE: Deodorizer
RESTRICTIONS ON USE: For intended use only
ITEM NUMBER: SSC , SSP , SSD

MANUFACTURER: Fresh Products, LLC, 30600 Oregon Rd. Perrysburg, Ohio 43551 USA
TELEPHONE: +1-419-531-9741
FAX: +1-419-531-8472
EMERGENCY CONTACT (spill/release): 800-424-9300

Section 2: HAZARDS IDENTIFICATION

General: Contains small amounts of chemicals that are hazardous to health and the environment

but in quantities too small to constitute any practical risks to health or the environment.

Classification: **WARNING**

Acute Toxicity Oral 4

Skin Sensitization 1



Hazard Phrases:

Precautionary Phrases:

P301+310: If swallowed, call physician

H302: Harmful if swallowed.

P102: Keep out of reach of children.

P302+P352: If on skin, wash with plenty of water.

H317: May cause allergic skin reaction.

P264: Wash hands thoroughly after handling.

P332+P313: If rash occurs, seek medical attention.

P280: Wear suitable gloves.

P501: Dispose of contents to an approved waste disposal plant.

SECTION 3: INGREDIENT INFORMATION

Chemical Identification: Scented light brown powder that turns liquids to solids.

Form/Shape: Bottle weighs approximately 340g.

CAS Number: Not applicable since the product is a preparation.

EINECS/ELINCS #: Not applicable since the product is a preparation.

The product is a complex mixture of substances of which the following have been classified as presenting a health or environmental hazard or as having an occupational exposure limit within the meaning of the Directive 67/548/EEC or 1999/45/EC

Level (%)	CAS NR	EC NR	Substance
35-50%	N/a	N/a	Cellulose
35-50%	60323-79-7	N/a	Absorbent Polymer
<1%	67-63-0	N/a	Isopropyl Alcohol
1-5%	N/a	N/a	Fragrance
C14-95%, C12-3%, C16-2%, dimethyl<1%	N/a	N/a	N-Alkyl
N/a	139-08-02	N/a	Benzyl ammonium chloride dihydrate
<1%	26172-55-4 & 2682-20-4	N/a	Microbiocide

SECTION 4: FIRST AID MEASURES

General: No specific acute effects or symptoms are known.

Inhalation: No acute effects expected. If person is feeling unwell, remove to fresh air.

Ingestion: Possibility of ingestion limited due to product form and difficulty to chew and ingest. In the event of ingestion, rinse mouth thoroughly with water.

Skin: Wash off with soap and water.

Eyes: Possibility of eye contact limited. In the event, wash thoroughly with water or approved eyewash.

SECTION 5: FIRE FIGHTING MEASURES

Extinguishing Media: Use extinguishing media appropriate for the surrounding fire. Water spray, fog or mist. Dry chemicals, sand etc.

Exposure Hazards: Thermal decomposition or burning may release a variety of products ranging from simple hydrocarbons to toxic/irritating gases including carbon monoxide and carbon dioxide. Full protective clothing should be worn before a confined fire space is entered. Self-contained breathing apparatus should be worn.

SECTION 6: ACCIDENTAL RELEASE MEASURES

No special requirements for accidental release required. Apply good housekeeping practices.

SECTION 7: HANDLING AND STORAGE

Usage Precautions: Follow normal good-housekeeping practices. Keep away from direct flames.

Storage Precautions: Keep in cool, dry conditions in original containers at no more than 30° C

SECTION 8: EXPOSURE CONTROL AND PERSONAL PROTECTION

Occupational Exposure limit: Not Established

Protection: Although unexpected, avoid prolonged skin contact. Use chemically resistant gloves as needed.

Respiratory Protection: None required under normal usage

Eye Protection: None required

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Cylindrical bottle with scented powder

Flash pt: Not applicable.

Relative Density: Not determined

Odor: Various

Evaporation Rate: Not applicable.

Solubility in water: Insoluble.

Odor Threshold: Not determined

Flammability: Not determined/applicable

Partition Coefficient: Not determined

Color: Light Brown

UEL: Not determined

Autignition Temperature: Not applicable

pH value: Not determined/applicable

LEL: Not determined

Decomposition Temperature:

Melting Pt: Estimated 60° C

Vapor Pressure: Not determined/applicable

Not determined/applicable

Boiling Pt: Not applicable.

Vapor Density: Not determined/applicable

RVOC: <3%

SECTION 10: STABILITY AND REACTIVITY

Stability: Normally stable.

Conditions to avoid: Avoid extreme heat and naked flames.

Materials to avoid: Strong oxidizing agents.

Decomposition Products: None under normal storage conditions.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute Effects: Ingredients include a small quantity of volatile fragrance chemicals which

Chronic Effects: None are known.

may contain small amounts of substances that are harmful if swallowed and/or irritating to the eyes and skin.

Health Risks: INHALATION: Prolonged exposure to volatile ingredients is unlikely to cause irritation or other adverse health effects.

INGESTION: No practical risk of adverse health effects.

SKIN CONTACT: No practical risk of adverse health effects.

EYE CONTACT: No practical risk of adverse health effects.

SECTION 12: ECOLOGICAL INFORMATION

No specific information has been established regarding the product. However according to the conventional method of Directive 99/45/EC the product is classified as harmful to aquatic organisms, or causing long-term effects in the aquatic environment.

Ecotoxicity: N/A

Bioaccumulative Potential: N/A

Persistence and Degradability: N/A

Mobility in Soil: N/A

Other Adverse Effects: N/A

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with Local Authority requirements e.g., for used product, as household waste

SECTION 14: TRANSPORT INFORMATION

Product is not regulated as hazardous

Transport Hazard Class: N/A

DOT Classifications: Non Hazardous

UN-Number: N/A

Packing group: N/A

UN Proper Shipping Name: N/A

Marine Pollutant: N/A

Special Precautions with Transport: N/A

SECTION 15: REGULATORY INFORMATION

Classification, Packaging and Labeling according to Directive 99/45/EC

Signal word:

Pictograms:

WARNING

Exclamation mark

Hazard Phrases:

Precautionary Phrases:

P301+310: If swallowed, call physician

H302: Harmful if swallowed.

P102: Keep out of reach of children.

P302+P352: If on skin, wash with plenty of water.

H317: May cause allergic skin reaction.

P264: Wash hands thoroughly after handling.

P332+P313: If rash occurs, seek medical attention.

P280: Wear suitable gloves.

P501: Dispose of contents to an approved waste disposal plant.

SECTION 16: OTHER INFORMATION

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

FLINN SCIENTIFIC, INC.

Safety Data Sheet (SDS)

SDS #: 844.00

Revision Date: January 16, 2014

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Vinegar

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word N/A

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

This chemical is considered nonhazardous according to GHS classifications for the Hazard Communication Standard. Treat all laboratory chemicals with caution.

Although this material is considered to be nonhazardous, unpredictable reactions among chemicals are always possible. Prudent laboratory practices should be observed.

Product should be treated as a chemical and is not for consumption as it has been stored with other nonfood-grade chemicals.

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Acetic acid	64-19-7	CH ₃ COOH	60.05	4-8%
Water	7732-18-5	H ₂ O	18.00	92-96%

SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310). **If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). **If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If on skin (or hair):** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). Wash contaminated clothing before reuse (P363). **If swallowed:** Rinse mouth. Do NOT induce vomiting (P301+P330+P331).

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solution.

In case of fire: Use a tri-class dry chemical fire extinguisher.

NFPA CODE
None
established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Ventilate area. Contain spill with sand or other inert absorbent material; deposit in sealed bag or container. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #1. Store with acids, anhydrides and peracids.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear or brown liquid. Strong smell of acetic acid.

Soluble: Water

pH: 2.4

Specific gravity: 1.01

Not for human consumption.

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong oxidizers.

Shelf life: Indefinite, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: N.A.

ORL-RAT LD₅₀: N.A.

Chronic effects: Prolonged inhalation of vapors can cause irritation to respiratory tract.

IHL-RAT LC₅₀: N.A.

Target organs: Respiratory tract.

SKN-RBT LD₅₀: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26b is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

Not listed.

SECTION 16 — OTHER INFORMATION

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.

Revision Date: January 16, 2014

Nursing/Allied Health SDS

NURSING / ALLIED HEALTH SDS INDEX

PRODUCT NAME	MANUFACTURER/ SUPPLIER/DISTRIBUTOR	AREA/ ROOM	MSDS/ SDS
Aplicare Alcohol Swabsticks	Aplicare	210	SDS
Aplicare Povidone-Iodine	Mediline/Aplicare	210	SDS
BD ALCOHOL Preps	Becton Dickinson and Co	210	SDS
BioSet	SorbTech	201A	MSDS
Chlorhexidine Gluconate 4%	Xttrium Laboratories	210	SDS
CLOTHESLINE FRESH	Spartan Chemical	210A	SDS
Ethyl Rubbing Alcohol 70%	Sunmark	210E	MSDS
GASTROCCULT DEVELOPER	Smith Kline Diagnostics	210	MSDS/ SDS
GERM X	Vi-Jon	210	SDS
GOO GONE	Goo Gone®	210E	SDS
HEMOCCULT DEVELOPER	Smith Kline Diagnostics	210	SDS
Instant Hand Sanitizer	Assured/Kutol Products	210	MSDS
Isopropyl Rubbing Alcohol 70%	Vi-Jon	210E	MSDS
Para-Pak Fixative	Meridian Bioscience, Inc.	210	SDS
PRO ADVANTAGE ALCOHOL Prep Pads	NDC, Inc.	210	SDS
Pure Bright Germicidal Ultra Bleach	KIK Custom Products	210A	SDS
PURELL	Gojo Industries	210	SDS
Resolve Pre-Treat	Reckitt Benckiser LLC	210A	SDS
SANI WIPES	Professional Disposables	210	SDS
Sensi-Care Protective Barrier	ConvaTec Inc.	210	SDS
SHARPS CONTAINERS	Becton Dickinson and Co	210	SDS
SoloSite Wound Gel	Smith & Nephew	210	SDS
WEBCOL/Curity ALCOHOL PREP PADS	Kendall/WEBCOL/Curity	210	SDS



SAFETY DATA SHEET

Issuing Date January 5, 2015

Revision Date New

Revision Number 0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name Apicare® Alcohol Swabsticks

Other means of identification

Product Code(s) S-1105, S-1105-1S, S-3105, S-3105-5S

Recommended use of the chemical and restrictions on use

Recommended Use Topical skin antiseptic

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name Apicare Inc.
Supplier Address 550 Research Parkway
Meriden, CT 06450

Supplier Phone Number Phone: 203-630-0500

Emergency telephone number

Emergency Phone Numbers For Medical Emergencies call: 1-800-446-1014
For Transportation Emergencies, call Chemtrec: 1-800-424-9300

2. HAZARDS IDENTIFICATION


Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 2

GHS Label elements, including precautionary statements

Emergency Overview

<p>Signal word</p> <p>Hazard Statements Causes serious eye irritation May cause drowsiness or dizziness Highly flammable liquid and vapor</p> <div style="text-align: center;">  </div> <p>Appearance Clear, colorless liquid absorbed into white, rayon swabs on polystyrene sticks</p>	<p>Danger</p> <p>Physical State Thin liquid absorbed into rayon swabs</p>	<p>Odor Alcohol</p>
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Precautionary Statements - Prevention

- Wash hands and face thoroughly after handling
- Wear protective gloves/eye protection
- Avoid breathing mist/vapors/spray
- Use only outdoors or in a well-ventilated area
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ ventilating/ lighting/ equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.

Precautionary Statements - Response

- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- If eye irritation persists: Get medical advice/attention.
- If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a poison center or doctor if you feel unwell
- If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- In case of fire: Use CO2, dry chemical, or foam for extinction.

Precautionary Statements - Storage

- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.
- Keep cool.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal in accordance with all applicable federal, state, and local regulations.

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

None of the mixture consists of ingredient(s) of unknown toxicity

Other information

Prolonged or repeated contact may dry skin and cause irritation.

Interactions with Other Chemicals

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Isopropyl alcohol	67-63-0	60 - 80	*

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

General Advice

Show this safety data sheet to the doctor in attendance.

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

Skin Contact

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. In the case of skin irritation, call a doctor.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, (trained personnel should) give oxygen. If symptoms persist, call a doctor.

Ingestion

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.

Self-protection of the first aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Remove all sources of ignition. Use personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects Burning sensation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO2). Alcohol resistant foam.

Unsuitable extinguishing media

CAUTION: This product has a very low flash point. Use of water spray when fighting fire may be inefficient. Do not use straight streams.

Specific Hazards Arising from the Chemical

Vapors can form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge Yes.

Protective equipment and precautions for firefighters

Move containers from fire area if you can do it without risk.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk.

Other Information Water spray may reduce vapor; but may not prevent ignition in closed spaces.

Environmental Precautions

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for Containment A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Methods for cleaning up Use clean non-sparking tools to collect absorbed material.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Use personal protection equipment. Avoid breathing vapors or mists. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

Incompatible Products Strong oxidizing agents. Acids. Chlorinated compounds.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³	IDLH: 2000 ppm 10% LEL TWA: 980 mg/m ³ TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m ³

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection None required for consumer use. If splashes are likely to occur: Tight sealing safety goggles.

Skin and Body Protection Wear protective gloves and protective clothing. Long sleeved clothing. Chemical resistant apron. Impervious gloves. Antistatic boots.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

Hygiene Measures Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State	Thin liquid absorbed into pads	Odor	Alcohol
Appearance	Clear, thin liquid absorbed into rayon swabs on polystyrene sticks	Odor Threshold	No information available
Color	Colorless liquid - white swabs and sticks		

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
pH	No data available	None known
Melting / freezing point	No data available	None known
Boiling point / boiling range	No data available	None known
Flash Point	18° C (liquid)	None known
Evaporation Rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		
Upper flammability limit	No data available	None known
Lower flammability limit	No data available	None known
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	~0.88 (liquid)	None known
Water Solubility	Soluble in water	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No data available	
Oxidizing Properties	No data available	

Other Information

Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	No data available

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Acids. Chlorinated compounds.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation	May cause irritation of respiratory tract.
Eye Contact	May cause redness, itching, and pain.
Skin Contact	Prolonged contact may cause redness and irritation.
Ingestion	Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Isopropyl alcohol 67-63-0	4.4 g/kg (Rat)	12.8 g/kg (Rabbit)	16000 ppm (Rat, 8 h)

Information on toxicological effects

Symptoms May cause redness and tearing of the eyes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl alcohol 67-63-0		Group 3		X

IARC (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive Toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Chronic Toxicity Contains a known or suspected carcinogen.

Target Organ Effects Eyes. Respiratory system. Skin. Blood. Kidney. Liver. Spleen. Systemic Toxicity.

Aspiration Hazard No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)

6.3 g/kg

ATEmix (dermal)

18 g/kg (ATE)

ATEmix (inhalation-vapor)

79 ATEmix

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Isopropyl alcohol 67-63-0	96h EC50: > 1000 mg/L (Desmodesmus subspicatus) 72h EC50: > 1000 mg/L (Desmodesmus subspicatus)	96h LC50: > 1400000 µg/L (Lepomis macrochirus) 96h LC50: = 11130 mg/L (Pimephales promelas) 96h LC50: = 9640 mg/L (Pimephales promelas)		48h EC50: = 13299 mg/L

Persistence and Degradability

No information available.

Bioaccumulation

Chemical Name	Log Pow
Isopropyl alcohol 67-63-0	0.05

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Disposal methods

Dispose of in accordance with all applicable federal, state, and local regulations.

Contaminated Packaging

Dispose of in accordance with all applicable federal, state, and local regulations.

14. TRANSPORT INFORMATION

<u>DOT</u>	Limited quantity.
<u>TDG</u>	
UN-No.	UN1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Hazard Class	3
Packing Group	II
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL), 3, II
<u>ICAO</u>	
UN-No.	UN1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Hazard Class	3
Packing Group	II
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL), 3, II
<u>IATA</u>	
UN-No.	UN1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Hazard Class	3
Packing Group	II
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL), 3, II
<u>IMDG/IMO</u>	
UN-No.	UN1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Hazard Class	3
Packing Group	II
EmS No.	F-E, S-E
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL), 3, II, (23°C C.C.)
Classification code	F1
Special Provisions	274, 601, 640D
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (ISOPROPYL ALCOHOL), 3, II
Limited Quantity	1 L
Ventilation	VE01

15. REGULATORY INFORMATION

Chemical Inventories

TSCA Complies
 DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains the following chemical that is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Isopropyl alcohol - 67-63-0	67-63-0	30 - 60	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard Yes
 Chronic Health Hazard No
 Fire Hazard Yes
 Sudden release of pressure hazard No
 Reactive Hazard No

CWA (Clean Water Act)

This product does not contain any substances that are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Isopropyl alcohol 67-63-0	X	X	X	X	

International Regulations

Canada

WHMIS Hazard Class

B2 - Flammable liquid

D2B - Toxic materials



16. OTHER INFORMATION

NFPA	Health Hazards	2	Flammability	3	Instability	0	Physical and Chemical Hazards - Personal Protection A
HMIS	Health Hazards	2	Flammability	3	Physical Hazard	0	

Prepared By Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Revision Date New

Revision Note New

Reference INT0009/D005

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of Safety Data Sheet



Safety Data Sheet

Aplicare Povidone-Iodine (Paint Sponge Stick, Prep Pad, Spray Solution, Solution, Swabstick, PVP-I Prep Swabs Ampules)

Section 1. Identification

Product Identifier	Aplicare Povidone-Iodine (Paint Sponge Stick, Prep Pad, Spray Solution, Solution, Swabstick, PVP-I Prep Swabs Ampules)		
Synonyms	APLF20115S ; ORF20015S ; APLL10014S ; APLL1001 ; APLL30015S ; APLL30115S ; APLP10018S ; APLP1001 ; APLP10118S ; APLP1011 ; APLS1101 ; APLS1111 ; APLS11011S ; APLS11111S ; APLS3101 ; APLS3111 ; APLS31015S ; APLS31115S ; APL82222 ; APL41411 ; APL82342K ; APL82277K ; APL82344K ; APL82255 ; APL82217 ; APL82219 ; APL82209 ; APL82226 ; APL82332 ; APLK905D ; APL82278 ; MSD_SDS0395		
Manufacturer Stock Numbers	APLF20115S ; ORF20015S ; APLL10014S ; APLL1001 ; APLL30015S ; APLL30115S ; APLP10018S ; APLP1001 ; APLP10118S ; APLP1011 ; APLS1101 ; APLS1111 ; APLS11011S ; APLS11111S ; APLS3101 ; APLS3111 ; APLS31015S ; APLS31115S ; APL82222 ; APL41411 ; APL82342K ; APL82277K ; APL82344K ; APL82255 ; APL82217 ; APL82219 ; APL82209 ; APL82226 ; APL82332 ; APLK905D ; APL82278		
Recommended use	Please refer to the product label.		
Uses advised against	No information available.		
Manufacturer Contact Address	Medline Industries, Inc. 3 Lakes Drive Northfield, IL, 60093 USA		
	Phone	Emergency Phone	Fax
	(800) 633-5463	(800) 424-9300 CHEMTREC CHEMTREC	(847) 643-4436
	Website		
	www.Medline.com		

Section 2. Hazards Identification

Classification No OSHA Hazard Classifications Applicable - Category N.A.

Signal Word

Pictogram

Hazard Statements No OSHA Hazard Classifications Applicable

Precautionary Statements

Response N/A

Prevention N/A

Storage N/A

Disposal N/A

Ingredients of unknown toxicity 0%

Hazards not Otherwise Classified

N.A.

Unknown toxicity: 9.1 % of the mixture consists of ingredient(s) of unknown toxicity.

Other information: Causes mild skin irritation.
Harmful to aquatic life with long lasting effects.
May cause slight eye irritation.

Section 3. Ingredients

CAS	Ingredient Name	Weight %
25655-41-8	Povidone-iodine	5% - 10%

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-Aid Measures

Eye Contact: Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

Skin Contact: Wash with soap and water.

Inhalation: Remove to fresh air.

Ingestion: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed: No information available.

Indication of any immediate medical attention and special treatment needed: Notes to physician:
Treat symptomatically.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable Extinguishing Media	CAUTION: Use of water spray when fighting fire may be inefficient.
Specific hazards arising from the chemical:	No information available.
Hazardous combustion products:	Carbon oxides.
Explosion data:	Sensitivity to Mechanical Impact: No
	Sensitivity to Static Discharge: No
Protective Equipment and Precautions for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Section 6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures:	Personal Precautions: Avoid contact with eyes.
Environmental Precautions:	Refer to protective measures listed in Sections 7 and 8.
Methods and Materials for Containment and Cleaning up:	Methods for Containment: Prevent further leakage or spillage if safe to do so. Methods for Cleaning up: Pick up and transfer to properly labeled containers.

Section 7. Handling and Storage

Precautions for safe handling:	Handling: Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage, including any incompatibilities:	Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Products: None known based on information supplied.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits	Ingredient Name	ACGIH TLV	OSHA PEL	STEL
	Povidone-iodine	TWA: 0.01ppm (Inhalable fraction and vapor) STEL: 0.1ppm (Aerosol and vapor)	(Ceiling) 0.1ppm	IDLH: 2ppm
Personal Protective	N/A			

Equipment

Exposure Guidelines: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Appropriate Engineering Controls: Engineering Measures:
Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment: Respiratory Protection:
No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures:
Handle in accordance with good industrial hygiene and safety practice.

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Dark brown
Odor	Faint
Odor Threshold	No data available
Solubility	No data available
Partition coefficient Water/n-octanol	No data available
VOC%	N/A
Viscosity	No data available
Specific Gravity	1.03
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	No data available
FP Method	N.D.
pH	4-6.5
Melting Point	No data available
Boiling Point	No data available
Boiling Range	No data available
LEL	N/A
UEL	N/A
Evaporation Rate	No data available
Flammability	No data available

Decomposition Temperature	No data available
Auto-ignition Temperature	No data available
Vapor Pressure	No data available
Vapor Density	No data available

Section 10. Stability and Reactivity

Reactivity:	No data available.
Chemical Stability:	Stable under recommended storage conditions.
Possibility of Hazardous Reactions:	None under normal processing.
Hazardous Polymerization	Hazardous polymerization does not occur.
Conditions to avoid	None known based on information supplied.
Incompatible Materials:	Strong oxidizing agents. Strong acids. Strong bases.
Hazardous Decomposition Products:	Carbon oxides.

Section 11. Toxicological Information

Information on Likely Routes of Exposure: Product Information	Eye Contact: Specific test data for the substance or mixture is not available.
	Skin Contact: Specific test data for the substance or mixture is not available.
	Inhalation: Specific test data for the substance or mixture is not available.
	Ingestion: Specific test data for the substance or mixture is not available.
Component Information:	Chemical name: Povidone-iodine CAS-No. 25655-41-8
	Oral LD50: > 8 g/kg (Rat)
	Dermal LD50: -
	Inhalation LC50: -
Information on Toxicological Effects:	Symptoms: No information available.
Delayed-immediate effects, also chronic effects from short & long term exposure:	Sensitization: No information available.
	Mutagenic Effects: No information available.

Carcinogenicity:
No known effect based on information supplied.

Reproductive Toxicity:
No information available.

STOT - Single exposure:
No information available

STOT - Repeated exposure:
No information available

Chronic Toxicity:
Carcinogenic potential is unknown.

Target Organ Effects:
None known.

Aspiration Hazard:
No information available.

Numerical Measures of Toxicity Product Information: The following values are calculated based on chapter 3.1 of the GHS document:
Not applicable.

Section 12. Ecological Information

Ecotoxicity: Harmful to aquatic life with long lasting effects.
Persistence and degradability: No information available.
Bioaccumulation: No information available.
Other adverse effects: No information available.

Section 13. Disposal

Waste Treatment Methods: Disposal Methods:
This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging:
Dispose of contents/containers in accordance with local regulations.

Section 14. Transport Information

DOT: Not regulated
IATA: Not regulated
IMDG/IMO: Not regulated

Section 15. Regulatory Information

SARA 311/312: Refer to Section 2 of the SDS.
SARA 302: N.A.
SARA 304: N.A.
SARA 313: N.A.
TSCA: All components are listed or exempt.
CERCLA Hazardous Substance List: N.A.
Clean Air Act (CAA) Section 112, 112 (r): N.A.
State Regulations: N.A.

Section 16. Other Information

Revision Date 5/21/2018

Legend N.A. - Not Applicable
N.E. - Not Established
N.D. - Not Determined

National Fire Protection Association (U.S.A): Health Hazard: 1

Flammability: 0

Instability: 0

HMIS (U.S.A.) Ratings: Health Hazards: 1

Flammability: 2

Physical Hazard: 0

Physical and Chemical Hazards Personal Protection: X

Additional Information The information contained herein is furnished without warranty or legal responsibility of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees



Becton Dickinson and Company

Material Safety Data Sheet

SECTION 1 - PRODUCT IDENTIFICATION

NAME Becton Dickinson Diabetes Care		ADDRESS One Becton Drive, Franklin Lakes, NJ 07417-1883	
TELEPHONE NUMBER (201) 847-7000	FOR ADDITIONAL INFORMATION CONTACT: 1-888-237-2762	DATE PREPARED May 20, 2009	
COMMON NAME (USED ON LABEL) 70% Isopropyl Alcohol Preps		CHEMICAL FAMILY Alcohol	
CHEMICAL NAME Isopropyl Alcohol		FORMULA (CH ₃) ₂ CHOH	
TRADE NAME & SYNONYMS BD Alcohol Swabs			

SECTION 2 - COMPOSITION

HAZARDOUS COMPONENT	CAS #	%(WT)	TLV	PEL
Isopropyl Alcohol	67-63-0	70	980 Mg/M3	980 Mg/M3

PEL: Permissible Exposure Limit established by the Occupational Safety and Health Administration (OSHA).
 TLV: Threshold Limit Value established by the American Conference of Governmental Industrial Hygienists, 1986-1987.

SECTION 3 - HAZARD IDENTIFICATION

Irritant (Xi) : R36 - Irritating to eyes.			
Highly flammable (F) : R11 - Highly flammable.			
Other : R67 - Vapors may cause drowsiness and dizziness.			
PRIMARY ROUTES OF EXPOSURE Skin, Eye, Inhalation or Ingestion			
SIGNS AND SYMPTOMS OF EXPOSURE Direct contact with eyes may result in irritation. Target Organs: Eyes, skin and respiratory			
(1) ACUTE OVEREXPOSURE tract.			
(2) CHRONIC OVEREXPOSURE - Prolonged contact with skin may result in drying or irritation. Prolonged inhalation of vapors may cause slight headaches or dizziness. Prolonged exposure to vapors may result in eye irritation.			
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE Isopropyl alcohol is not a known liver or kidney toxin; persons with impaired liver or renal function should limit exposure.			
CHEMICAL/COMPONENT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN None	NTP <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	LARC <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	OSHA <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
OTHER EXPOSURE LIMITS None determined.			

SECTION 4 - FIRST AID MEASURES

EMERGENCY & FIRST AID PROCEDURES: EYE CONTACT: Flush with water for 15 minutes, seek medical attention. SKIN CONTACT: Flush with water for 15 minutes. INGESTION: Not likely; if ingestion occurs, do not induce vomiting, seek medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT 12 degrees C (Isopropyl Alcohol 99%)	FLAMMABLE LIMITS IN AIR (% by Volume) LOWER: 2.0% UPPER: 12.7%
EXTINGUISHING MEDIA Carbon Dioxide, alcohol foam or dry chemical	AUTO IGNITION TEMPERATURE 399 degrees C
UNUSUAL FIRE AND EXPLOSION HAZARDS None	
SPECIAL FIRE FIGHTING PROCEDURES Use self-contained breathing apparatus when in close proximity to fire.	

SECTION 6 - ACCIDENTIAL RELEASE MEASURES

8 STEPS TO BE TAKEN IN CASE MATERIAL IS LEAKED OR SPILLED Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition.
WASTE DISPOSAL METHOD Dispose of in accordance with applicable local, state and federal laws.

SECTION 7 - HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING Store away from heat and ignition sources.
OTHER PRECAUTIONS Not determined.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

RESPIRATORY PROTECTION Respiratory protection is not required under normal use.	
VENTILATION For normal use - use in a well ventilated area.	
PROTECTIVE GLOVES Not required under normal use.	EYE PROTECTION Not required under normal use.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT Not required under normal use.	

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT 82.4 degrees C	SPECIFIC GRAVITY (H ₂ O =1) .869 - .879 at 25 degrees C	VAPOR PRESSURE (mm Hg) 33mm at 20 degrees C
PERCENT VOLATILE BY VOLUME (%) 100%	VAPOR DENSITY (AIR =1) 2.07	EVAPORATION RATE (Butyl Acetate =1) 2.88
SOLUBILITY IN WATER Soluble	REACTIVITY IN WATER Does not apply	FLASH POINT 12 degrees C (Isopropyl Alcohol 99%)
APPEARANCE AND ODOR Saturated pad, colorless liquid with an alcohol odor.		

SECTION 10 - STABILITY AND REACTIVITY DATA

STABILITY Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>	CONDITIONS TO AVOID Sources of ignition, excessive heat
INCOMPATIBILITY (MATERIALS TO AVOID) Strong Oxidizers, acetaldehyde chlorine, ethylene oxide, acids, isocyanates	
HAZARDOUS DECOMPOSITION PRODUCTS Carbon monoxide, carbon dioxide.	
HAZARDOUS POLYMERIZATION May Occur <input type="checkbox"/> Will not Occur <input checked="" type="checkbox"/>	

SECTION 11 - TOXICOLOGICAL INFORMATION

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING Store away from heat and ignition sources.
OTHER PRECAUTIONS Not determined.

SECTION 12 – ECOLOGICAL INFORMATION

Environmental Fate:

This product is classified as a Volatile Organic Component according to Directive 1999/13/EC.

Mobility : Product completely soluble in water.

Persistence and Degradability : Easily biologically degradable.

By major discharge of product in surface waters, a lack of oxygen may occur.

Bioaccumulation : Little chance on bioaccumulation.

* Ecotoxicity : Ecotoxic up to a small extent.

Weak water pollutant (WGK 1).

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal

State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

SECTION 14 – TRANSPORTATION INFORMATION

Proper Shipping Name: ISOPROPANOL SOLUTION

Hazard Class: 3

UN/NA: UN1219

Packing Group: II

Containers of 1L or less may be shipped as Consumer Commodity ORM-D

SECTION 15 – REGULATORY INFORMATION

US FEDERAL

TSCA

CAS# 67-63-0 is listed on the TSCA inventory.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

CERCLA Hazardous Substances and corresponding RQs

None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

None of the chemicals in this product have a TPQ.

SARA Codes

CAS # 67-63-0: immediate, delayed, fire.

Section 313

This material contains Isopropyl alcohol (CAS# 67-63-0, 70%), which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 67-63-0 can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

European/International Regulations

EC Number: 200-661-7

European Labeling in Accordance with EC Directives

Hazard Symbols:

XI F

Risk Phrases:

R 11 Highly flammable.

R 36 Irritating to eyes.

R 67 Vapors may cause drowsiness and dizziness.

Safety Phrases:

S 16 Keep away from sources of ignition - No smoking.

S 24/25 Avoid contact with skin and eyes.

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 7 Keep container tightly closed.

SECTION 16 – OTHER INFORMATION

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution.

MATERIAL IDENTIFICATION and INFORMATION

Portland Cement; CAS#6599-71-51; Vermiculite CAS# 1318-00-9; Gypsum CAS# 7778-18-9; Hydrated Lime CAS# 12001-27-3; Calcium Hypochlorite CAS# 7778-54-3

PHYSICAL and CHEMICAL CHARACTERISTICS (June 10, 2013)

Boiling Point: N/A	Specific Gravity: 0.6 30 lb/cu ft
Vapor Pressure: N/A	Melting Point: N/A
Vapor Density: N/A	Evaporation Rate: N/A
Solubility in water: Insoluble	Water Reactive: Very slight heating

Appearance and Odor: Light gray powder 20-300 mesh

FIRE and EXPLOSION HAZARD

Flash Point: N/A	Extinguisher Medium: Water
Auto-Ignition Temperature: N/A	Flammability Limits in Air: N/A
Special Fire Fighting Procedure: None	

Unusual Fire and Explosion Hazards: May form free chlorine gas upon heating

REACTIVITY HAZARD DATA

Stable. Conditions to Avoid: Contact with strong acids;
Hazardous decomposition products: Chlorine gas vapor

HEALTH HAZARD DATA

Primary Route: Inhalation and skin contact.
Health Hazards: Irritation of eyes, skin, and mucous membranes. Stomach upset. Chronic: None.
Eye Contact: Flush with water. Skin Contact: Flush with water. Ingestion: Take citrus juices.
Inhalation: Remove to fresh air.

CONTROL and PROTECTIVE MEASURES

Use NIOSH respirator. Goggles and gloves. Other protective clothing as required in HazMat use.
Wash hands after using.

SAFE HANDLING and LEAK PROCEDURES

Spills: Sweep up. Waste Disposal: Sanitary landfill for unused BioSet material. Keep dry.

NFPA Rating: Health 1, Flammability 0, Reactivity 1

Chlorhexidine Gluconate 4% Topical Solution

Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name. : Chlorhexidine Gluconate 4% Topical Solution

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Pharmaceutical Agent

1.3. Details of the supplier of the safety data sheet

Xttrium Laboratories, Inc.
1200 East Business Center Drive
Mt. Prospect, IL 60056

1.4. Emergency telephone number

Emergency number : 773-268-5800

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (GHS-US)

Skin Irrit. 2 H315
Eye Dam. 1 H318
Carc. 2 H351

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS05

GHS08

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) : H315 - Causes skin irritation
H318 - Causes serious eye damage
H351 - Suspected of causing cancer

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P264 - Wash ... thoroughly after handling
P280 - Wear protective gloves/protective clothing/eye protection/face protection
P302 + P352 - If on skin: Wash with plenty of water/...
P305 + P351 + P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308 + P313 - If exposed or concerned: Get medical advice/attention
P310 - Immediately call a poison center/doctor/...
P321 - Specific treatment (see ... on this label)
P332 + P313 - If skin irritation occurs: Get medical advice/attention
P362 - Take off contaminated clothing and wash before reuse
P405 - Store locked up
P501 - Dispose of contents/container to ...

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Full text of H-phrases: see section 16

3.2. Mixture

Name	Product identifier	%	GHS-US classification
Water	(CAS No) 7732-18-5	Trade Secret	Not classified
Chlorhexidine digluconate	(CAS No) 18472-51-0	Trade Secret	Acute Tox. 4 (Oral), H302
Isopropyl alcohol	(CAS No) 67-63-0	Trade Secret	Flam. Liq. 2, H225

Chlorhexidine Gluconate 4% Topical Solution

Safety Data Sheet

Name	Product identifier	%	GHS-US classification
Proprietary Component 1	(CAS No) Proprietary	Trade Secret	Not classified
Proprietary Component 2	(CAS No) Proprietary	Trade Secret	Skin Corr. 1B, H314
Proprietary Component 3	(CAS No) Proprietary	Trade Secret	Carc. 2, H351
Proprietary Component 4	(CAS No) Proprietary	Trade Secret	Not classified
Proprietary Component 5	(CAS No) Proprietary	Trade Secret	Not classified
Proprietary Component 6	(CAS No) Proprietary	Trade Secret	Not classified

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures after inhalation : No specific first aid necessary for this route of exposure.
- First-aid measures after skin contact : Wash with soap and water. Seek medical advice if skin irritation develops or persists.
- First-aid measures after eye contact : Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.
- First-aid measures after ingestion : Do NOT induce vomiting. Seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after inhalation : None under normal use.
- Symptoms/injuries after skin contact : Causes skin irritation.
- Symptoms/injuries after eye contact : Causes serious eye damage.
- Symptoms/injuries after ingestion : May be harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Dry chemical powder, alcohol foam, carbon dioxide, water spray, fog.
- Unsuitable extinguishing media : None.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Not flammable. Thermal decomposition may produce toxic fumes of ammonia, hydrogen chloride and oxides of carbon and nitrogen.
- Explosion hazard : None known.

5.3. Advice for firefighters

- Protection during firefighting : Firefighters should wear full protective gear.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- For containment : Stop the flow of material, if this is without risk.
- Methods for cleaning up : Confine spill and soak up with absorbent. Place in an approved container and dispose in accordance with local, state and federal regulations.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with eyes. Wash thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep away from open flames, hot surfaces and sources of ignition. Store at temperatures not exceeding 37°C.

7.3. Specific end use(s)

Pharmaceutical Agent.

Chlorhexidine Gluconate 4% Topical Solution

Safety Data Sheet

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Isopropyl alcohol (67-63-0)		
USA ACGIH	ACGIH TWA (ppm)	200 ppm
USA ACGIH	ACGIH STEL (ppm)	400 ppm
USA OSHA	OSHA PEL (TWA) (mg/m ³)	980 mg/m ³
USA OSHA	OSHA PEL (TWA) (ppm)	400 ppm

8.2. Exposure controls

Appropriate engineering controls	: Provide adequate general and local exhaust ventilation.
Hand protection	: Wear impervious gloves to minimize skin contact.
Eye protection	: Chemical goggles or safety glasses.
Skin and body protection	: Wear suitable working clothes.
Respiratory protection	: None required under normal product handling conditions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: colorless.
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: 97 °C
Flash point	: >200 °F
Self ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Specific gravity	: 1.06
Solubility	: Water: Soluble
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

The product is stable at normal handling- and storage conditions.

10.3. Possibility of hazardous reactions

Will not occur.

10.4. Conditions to avoid

Storage in excess heat (104 ° F) over a long period of time.

10.5. Incompatible materials

None.

Chlorhexidine Gluconate 4% Topical Solution

Safety Data Sheet

10.6. Hazardous decomposition products

Thermal decomposition may produce toxic fumes of ammonia, hydrogen chloride and oxides of carbon and nitrogen.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Water (7732-18-5)	
LD50 oral rat	> 90 ml/kg

Chlorhexidine digluconate (18472-51-0)	
LD50 oral rat	2 g/kg
ATE (oral)	500.000 mg/kg

Isopropyl alcohol (67-63-0)	
LD50 oral rat	4396 mg/kg
LD50 dermal rat	12800 mg/kg
LD50 dermal rabbit	12870 mg/kg
LC50 inhalation rat (mg/l)	72.6 mg/l (Exposure time: 4 h)

Proprietary Component 6 (Proprietary)	
LD50 oral rat	7930 mg/kg
ATE (oral)	7930.000 mg/kg bodyweight

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye damage.
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Suspected of causing cancer.

Isopropyl alcohol (67-63-0)	
IARC group	3

Proprietary Component 3 (Proprietary)	
IARC group	2B
National Toxicity Program (NTP) Status	1

Reproductive toxicity : Not classified
Specific target organ toxicity (single exposure) : Not classified
Specific target organ toxicity (repeated exposure) : Not classified
Aspiration hazard : Not classified

SECTION 12: Ecological information

12.1. Toxicity

Isopropyl alcohol (67-63-0)	
LC50 fishes 1	9640 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	13299 mg/l (Exposure time: 48 h - Species: Daphnia magna)
EC50 other aquatic organisms 1	> 1000 mg/l (Exposure time: 96 h - Species: Desmodesmus subspicatus)
LC50 fish 2	11130 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])
EC50 other aquatic organisms 2	> 1000 mg/l (Exposure time: 72 h - Species: Desmodesmus subspicatus)

Proprietary Component 3 (Proprietary)	
LC50 fishes 1	3.6 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [semi-static])
EC50 Daphnia 1	4.2 mg/l (Exposure time: 24 h - Species: Daphnia magna)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Isopropyl alcohol (67-63-0)	
Log Pow	0.05 (at 25 °C)

Chlorhexidine Gluconate 4% Topical Solution

Safety Data Sheet

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

In accordance with DOT / ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

Not applicable

14.2. UN proper shipping name

DOT Proper Shipping Name : Chlorhexidine Gluconate Aqueous Solutions of alcohol containing 24% or less alcohol by volume and no other hazardous material.

SECTION 15: Regulatory information

15.1. US Federal regulations

Water (7732-18-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Chlorhexidine digluconate (18472-51-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Isopropyl alcohol (67-63-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on SARA Section 313 (Specific toxic chemical listings)

EPA TSCA Regulatory Flag

T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.

SARA Section 313 - Emission Reporting

1.0 % (only if manufactured by the strong acid process, no supplier notification)

Proprietary Component 2 (Proprietary)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Proprietary Component 3 (Proprietary)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Proprietary Component 5 (Proprietary)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Proprietary Component 1 (Proprietary)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Proprietary Component 4 (Proprietary)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Proprietary Component 6 (Proprietary)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. US State regulations

Proprietary Component 3 (Proprietary)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significance risk level (NSRL)
Yes				

Isopropyl alcohol (67-63-0)

U.S. - Massachusetts - Right To Know List
U.S. - Minnesota - Hazardous Substance List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Chlorhexidine Gluconate 4% Topical Solution

Safety Data Sheet

SECTION 16: Other information

Full text of H-phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Skin Corr. 1B	skin corrosion/irritation Category 1B
Skin Irrit. 2	skin corrosion/irritation Category 2
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H351	Suspected of causing cancer

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.



Safety Data Sheet

Spartan Chemical Company, Inc.

Revision Date: 04-Aug-2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: CLOTHESLINE FRESH DETERGENT EP [18]
Product Number: 7018
Recommended Use: Laundry detergent
Uses Advised Against: For Industrial and Institutional Use Only

Manufacturer/Supplier: Spartan Chemical Company, Inc.
1110 Spartan Drive
Maumee, Ohio 43537 USA
800-537-8990 (Business hours)
www.spartanchemical.com

24 Hour Emergency Phone Numbers:

Medical Emergency/Information: 888-314-6171
Transportation/Spill/Leak: CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

GHS Classification

Serious Eye Damage/Eye Irritation: Category 2B

GHS Label Elements

Signal Word:

Warning

Symbols:

None

Hazard Statements:

Causes eye irritation.

Precautionary Statements:

Prevention:

Wash hands and any exposed skin thoroughly after handling.

Response:

-Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. See Safety Data Sheet Section 4: "FIRST AID MEASURES" for additional information.

-Specific Treatment:

Storage:

Not Applicable

Disposal:

Not Applicable

Hazards Not Otherwise Classified: Not Applicable

Other Information:

- May be harmful if swallowed.
- May cause skin irritation.
- Keep out of reach of children.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
water	7732-18-5	60-100
alcohol ethoxylate	68439-46-3	7-13
sodium laureth sulfate	9004-82-4	1-5
alcohol ethoxylate	66455-14-9	1-5

alkyl polyglucoside	68515-73-1	1-5
anionic polymer	PROPRIETARY	1-5

Specific chemical identity and/or exact percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

-Eye Contact:	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
-Skin Contact:	Wash with soap and water. If skin irritation occurs: Get medical attention.
-Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or physician if you feel unwell.
-Ingestion:	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if you feel unwell.
Note to Physicians:	Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	Product does not support combustion, Use extinguishing agent suitable for type of surrounding fire
Specific Hazards Arising from the Chemical:	Dried product is capable of burning. Combustion products are toxic.
Hazardous Combustion Products:	May include Carbon monoxide Carbon dioxide and other toxic gases or vapors.
Protective Equipment and Precautions for Firefighters:	Wear MSHA/NIOSH approved self-contained breathing apparatus (SCBA) and full protective gear. Cool fire-exposed containers with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.
Environmental Precautions:	Do not rinse spill onto the ground, into storm sewers or bodies of water.
Methods for Clean-Up:	Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).

7. HANDLING AND STORAGE

Advice on Safe Handling:	Handle in accordance with good industrial hygiene and safety practice. Wash thoroughly after handling.
Storage Conditions:	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep from freezing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:	None established.
Engineering Controls:	Provide good general ventilation. If work practices generate dust, fumes, gas, vapors or mists which expose workers to chemicals above the occupational exposure limits, local exhaust ventilation or other engineering controls should be considered.
Personal Protective Equipment	
Eye/Face Protection:	Not required with expected use.
Skin and Body Protection:	Not required with expected use.
Respiratory Protection:	Not required with expected use. If occupational exposure limits are exceeded or respiratory irritation occurs, use of a NIOSH/MSHA approved respirator suitable for the use-conditions and chemicals in Section 3 should be considered.

General Hygiene Considerations: Wash hands and any exposed skin thoroughly after handling.
See 29 CFR 1910.132-138 for further guidance.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Liquid
Color:	Clear
Odor:	Pleasant
pH:	7.0-8.0
Melting Point / Freezing Point:	No information available.
Boiling Point / Boiling Range:	100 °C / 212 °F
Flash Point:	> 100 °C / > 212 °F ASTM D56
Evaporation Rate:	> 1 (Butyl acetate = 1)
Flammability (solid, gas)	No information available.
Upper Flammability Limit:	No information available.
Lower Flammability Limit:	No information available.
Vapor Pressure:	No information available.
Vapor Density:	No information available.
Specific Gravity:	1.015
Solubility(ies):	No information available.
Partition Coefficient:	No information available.
Autoignition Temperature:	No information available.
Decomposition Temperature:	No information available.
Viscosity:	No information available.

10. STABILITY AND REACTIVITY

Reactivity: This material is considered to be non-reactive under normal conditions of use.
Chemical Stability: Stable under normal conditions.
Possibility of Hazardous Reactions: Not expected to occur with normal handling and storage.
Conditions to Avoid: Extremes of temperature and direct sunlight.
Incompatible Materials: Strong oxidizing agents. Strong acids.
Hazardous Decomposition Products: May include carbon monoxide, carbon dioxide (CO₂) and other toxic gases or vapors.

11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Eyes, Skin, Ingestion, Inhalation.
Symptoms of Exposure:
-Eye Contact: Pain, redness and swelling of the conjunctiva.
-Skin Contact: Drying of the skin.
-Inhalation: Nasal discomfort and coughing.
-Ingestion: Pain, nausea, vomiting and diarrhea.
Immediate, Delayed, Chronic Effects
Product Information: Data not available or insufficient for classification.

Numerical Measures of Toxicity

The following acute toxicity estimates (ATE) are calculated based on the GHS document.

ATEmix (oral): 9828 mg/kg
 ATEmix (dermal): 14489 mg/kg

Component Acute Toxicity Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
water 7732-18-5	> 90 mL/kg (Rat)	Not Available	Not Available
alcohol ethoxylate 68439-46-3	= 1378 mg/kg (Rat)	> 2 g/kg (Rabbit)	Not Available

sodium laureth sulfate 9004-82-4	= 1600 mg/kg (Rat)	Not Available	Not Available
alcohol ethoxylate 66455-14-9	> 10 g/kg (Rat)	> 2 g/kg (Rat)	Not Available

Carcinogenicity: No components present at 0.1% or greater are listed as to being carcinogens by ACGIH, IARC, NTP or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Persistence and Degradability: No information available.

Bioaccumulation: No information available.

Other Adverse Effects: No information available.

13. DISPOSAL CONSIDERATIONS

Disposal of Wastes: Dispose of in accordance with federal, state and local regulations.

Contaminated Packaging: Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT: Not Regulated
Proper Shipping Name: Non-Hazardous Products
Special Provisions: Shipping descriptions may vary based on mode of transport, quantities, package size, and/or origin and destination. Check with a trained hazardous materials transportation expert for information specific to your situation.

IMDG: Not Regulated
Proper Shipping Name: Non-Hazardous Products

15. REGULATORY INFORMATION

TSCA Status: (Toxic Substance Control Act Section 8(b) Inventory)

All chemical substances in this product are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

SARA 313

This product does not contain listed substances above the "de minimus" level

SARA 311/312 Hazard Categories

Acute Health Hazard:	Yes
Chronic Health Hazard:	No
Fire Hazard:	No
Sudden release of pressure hazard:	No
Reactive Hazard:	No

California Proposition 65

This product is not subject to warning requirements under California Proposition 65.

16. OTHER INFORMATION

NFPA	Health Hazards: 1	Flammability: 0	Instability: 0	Special: N/A
HMIS	Health Hazards: 1	Flammability: 0	Physical Hazards: 0	

Revision Date: 04-Aug-2015
Reasons for Revision: Section 14 and 15

Disclaimer:

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

MATERIAL SAFETY DATA SHEET

Sunmark Ethyl Rubbing Alcohol 70%

Revised: 5/20/2011

SECTION - I

PRODUCT IDENTIFICATION

Product Name: Sunmark Ethyl Rubbing Alcohol 70%

Product Number: 080910

Manufacturer: McKesson Corporation

Address: One Post Street
San Francisco, CA 94104

Information Phone: (415) 983-8300

Emergency Phone (CHEMTREC): (800) 424-9300

Generic Name: Ethyl Alcohol

Trade Name: Ethyl Rubbing Alcohol

Chemical Family: Pharmaceutical Preparation
Medicament inside a glass, plastic, or metal container
suitable for dispensing. May be over-packed in a
cardboard or plastic container

NDC: 49348-003-38

UPC Code: 0-10939-13633-0

SECTION - II

CHEMICAL INGREDIENTS

Chemical Ingredients: Ethyl Alcohol (CAS 64-17-5)
Acetone (CAS 67-64-1)
Methyl Isobutyl Ketone (CAS 108-10-1)

SECTION - III

PHYSICAL DATA

Boiling Point: 173°F (Ethyl Alcohol)

Vapor Pressure: 44.6mm Hg @ 60°F (Ethyl Alcohol)

Vapor Density (Air = 1):	1.59 (Ethyl Alcohol)
Specific Gravity:	0.875 @ 60°F
Percent Volatile by Volume:	100%
Evaporation Rate:	N/A
Solubility in Water:	100%
Appearance and Odor:	Clear and colorless

SECTION - IV

FIRE AND EXPLOSION HAZARD DATA

Flash Point:	56°F
Extinguishing Media:	Individuals should perform only those firefighting procedures for which they have been trained.
Special Fire Fighting Precautions:	Use dry chemicals, “alcohol” foam, or carbon dioxide; water may be effective, but water should be used to keep fire-exposed containers cool. If a leak or spill has not ignited, use a water spray to disperse the vapors and to protect men attempting to stop a leak. Water spray may be used to flush spills away from exposures and to dilute spills to non-flammable mixtures.
Unusual Fire and Explosion Hazards:	Firefighters should wear self-contained breathing apparatus in the positive pressure mode with a full facepiece when there is a possibility of exposure to smoke, fumes or hazards decomposition products.

SECTION - V

HEALTH HAZARD DATA

Emergency First Aid Procedures:	
If on the SKIN:	May cause irritation and defatting of the skin on prolonged contact. Immediately flush affected area with plenty of cool water. Remove and wash contaminated clothing before reuse. Get medical attention immediately.
If in EYES:	Liquid or vapor may cause irritation. Immediately flush affected area with plenty of cool water. Eyes should be flushed for at least 15 minutes. Get medical attention immediately.
If INHALED:	Provide fresh air. Consult doctor if irritation occurs.

If SWALLOWED:

If victim is conscious and able to swallow, have victim drink water or milk to dilute. Never give anything by mouth if victim is unconscious or having convulsions. Call a physician or Poison Control Center immediately. Induce vomiting only if advised by physician or Poison Control Center.

SECTION - VI

REACTIVITY DATA

Stability:

Stable

Conditions to Avoid:

Contact with Acetyl Chloride and a wide range of oxidizing agents may react violently.

Hazardous Polymerization:

Not likely.

Decomposition Products:

Carbon monoxide can form on incomplete combustion.

SECTION - VII

SPILL OR LEAK PROCEDURE

Steps to be taken in case of spill/discharge:

Wear appropriate respiratory protection and protective clothing. Contain spill material. Transfer to secure containers. Where necessary, collect using absorbent media. In the event of an uncontrolled release of this material, the user should determine if the release is reportable under applicable laws and regulations.

Waste Disposal Method:

All recovered material should be packaged, labeled, transported, and disposed or reclaimed in conformance with applicable laws and regulations and conform with good engineering practices.

SECTION - VIII

Industrial Protective Equipment

Ventilation:

Use adequate general or local exhaust ventilation to keep vapor and mist levels as low as possible.

Respiratory Protection:

Where exposure is likely to exceed acceptable criteria use NIOSH/MSHA approved respiratory protection equipment. Respirator should be selected based on the form and concentration of contaminant in air and in accordance with OSHA (29 CFR 1910.134)

Eye Protection:

Wear safety glasses meeting the specifications of ANSI

Standard Z87.1 where no contact with the eye is anticipated. Chemical safety goggles meeting the specifications of ANSI Z87.1 should be worn whenever there is the possibility of splashing or other contact with the eyes.

Skin Protection:

Wear gloves and protective clothing which are imperious to this product for the duration of anticipated exposure if there is potential for skin contact.

SECTION - IX

OTHER INFORMATION

Keep this and all medication out of the reach of children.

	<i>HMIS (USA)</i>	<i>KEY</i>
Health	2	4 = Severe
Flammability	3	3 = Serious
Reactivity	0	2 = Moderate
		1 = Slight
		0 = Minimal

Hazardous Materials Identification System (HMIS)

This information herein is furnished without warranty of any kind. This information should be used only as a supplement to information already in your possession concerning this product. The determination of whether or under what conditions this product should be used by you or your employees is yours to make.



SAFETY DATA SHEET

Doc. ID: 66115-75 Rev. AG
Revised (year/month/day) 2015/04/15

Section 1 Identification of the Substance/mixture and of the Company/undertaking

1.1 Product Identifier

Product Name Gastrocult Developer
Part Number 66115
Series Name 66000 Series

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product Use For In Vitro Diagnostic Use. See product literature for details.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Beckman Coulter, Inc.
250 S. Kraemer Blvd
Brea, CA 92821, U.S.A.
Tel: 800-854-3633

EC REP Address

Beckman Coulter Eurocenter S.A.
22, rue Juste-Oliver, Case Postale 1044,
CH-1260 Nyon 1, Switzerland.
Telephone +41 (0)22 365 36 11
Monday through Friday, 9:00 am to
7:00pm)

e-mail address SDSNT@beckman.com

1.4 Emergency telephone number

Telephone number (24H) Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001) 703-527-3887

Distributor and Emergency Phone No.

Refer to attached list, Document ID: 472050, for local distributor and emergency phone numbers.

Section 2 Hazards Identification

2.1 Classification of substance or mixture

Product Description Mixture
Colorless; Clear; Liquid; Alcohol odor

Classification according to EC 1272/2008 (CLP/GHS)

Flammable Liquids, Category 2
Acute Toxicity Oral, Category 4
Skin Irritation Category 2
Eye Damage Category 1
Specific Target Organ Toxicity Single Exposure Category 2

Classification according to EC Directives 1999/45/EC and 67/548/EEC

Xn;R10-20/21/22-68/20/21/22

Section 2 Hazards Identification (Continued)

Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS

Flammable Liquids, Category 2
Acute Toxicity Oral, Category 4
Acute Toxicity Dermal, Category 5
Skin Irritation Category 2
Eye Damage Category 1
Specific Target Organ Toxicity Single Exposure Category 2

2.2 Label Elements

According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS

Hazardous Ingredients

Citric Acid
Hydrogen Peroxide
octylphenoxypoly(ethoxyethanol)
Ethanol-methanol mix

Pictogram



Signal Word

DANGER

Hazard Statements

H225 Highly flammable liquid and vapour.
H302 Harmful if swallowed.
H313 May be harmful In contact with skin
H315 Causes skin irritation.
H318 Causes serious eye damage.
H371 May cause damage to organs.

Precautionary Statements

P210 Keep away from heat, hot surfaces, and sparks. No smoking.
P233 Keep container tightly closed.
P240 Ground container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharge.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves, protective clothing and eye/face protection.
P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 IF ON SKIN (or hair): Rinse skin with water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311 If exposed or concerned: Call a doctor/physician.
P310 Immediately call a POISON CENTER or doctor/physician.

SAFETY DATA SHEET

Doc. ID: 66115-75 AG
Revised (year/month/day) 2015/04/15

Section 2 Hazards Identification (Continued)

P330 Rinse mouth.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before use.
P370+P378 In case of fire: Use water spray for extinction.
P403+P235 Store in a well-ventilated place. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/national regulations
Product label will display most significant precautionary statements.8.2% of product contains ingredients of unknown dermal toxicity.3.4% of product contains ingredient of unknown Oral toxicity.

2.3 Other hazards

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

See Section 11 Toxicological Information for more detailed health information.

Section 3 Composition and Information on Ingredients

3.2 Mixtures

Hazardous Ingredients:		Hazard Classification of Pure Ingredients			
Chemical Name	% by wt.	EU-67/548/EEC	EU 1272/2008 CLP/GHS	GHS	
Ethanol-methanol mix CAS # 8013-52-3 EINECS # Not available Index # Not available	30-40	F;R11 Xn;R20/21/22-68/20/21/22	Acute Tox. Dermal 4 Acute Tox. Inhal. 4 Acute Tox. Oral 4 Flam. Liq. 2 STOT SE 2 H225; H302; H312; H332; H371	Acute Tox. Dermal 4 Acute Tox. Inhal. 4 Acute Tox. Oral 4 Flam. Liq. 2 STOT SE 2 H225; H302; H312; H332; H371	
Citric Acid CAS # 77-92-9 EINECS # 201-069-1 Index # Not available	1-5	Xi;R36	Eye Irrit. 2 H319	Eye Irrit. 2 H319	3, 8
Hydrogen Peroxide CAS # 7722-84-1 EINECS # 231-765-0 Index # 008-003-00-9	1-5	O;R5-8 C;R35-20/22	Acute Tox. Inhal. 4 Acute Tox. Oral 4 Eye Dam. 1 Ox. Liq. 1 STOT SE 3 Skin Corr. 1A H271; H302; H314; H318; H332; H335	Acute Tox. Inhal. 4 Acute Tox. Oral 4 Eye Dam. 1 Ox. Liq. 1 STOT SE 3 Skin Corr. 1A H271; H302; H314; H318; H332; H335	
octylphenoxy poly(ethoxyethanol) CAS # 9036-19-5 EINECS # Not available Index # Not available	1-3	Xi;R37/38-41	Eye Dam. 1 H318	Acute Tox. Oral 5 Eye Dam. 1 H303; H318	

Section 3 Composition and Information on Ingredients (Continued)

3 - Health hazard

8 - Present at concentration below the cut-off limits.

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

See Section 16 for hazard class, hazard statements and risk phrase description

Section 4 First Aid Measures

4.1 Description of first aid measures

Inhalation

If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.

Eye Contact

If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open and obtain medical attention immediately.

Skin Contact

In case of skin contact, flush with copious amounts of water for at least 15 minutes. If pain or irritation occur, obtain medical attention.

Ingestion

If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Harmful if swallowed.

May cause damage to organs.

May be harmful if swallowed

May be harmful In contact with skin

Causes serious eye damage.

Causes skin irritation.

See Section 11 Toxicological Information for more detailed health information.

4.3 Indication of any immediate medical attention and special treatment needed

If eye irritation persists: Get medical advice/attention.

Section 5 Fire Fighting Measures

Flammable Properties

Flammable liquid and vapor.

5.1 Extinguishing Media

Dry chemical, carbon dioxide or alcohol resistant foam. Use water spray to cool containers exposed to fire.

5.2 Special hazards arising from the substance or mixture

Special Fire and Explosion Hazards

Vapors form explosive mixtures with air above flash point. Vapors are heavier than air; fire may flash from ignition source back along vapor trail.

Hazardous Combustion Products

No combustion products posing significant hazards are expected from this product (an aqueous solution).

Section 5 Fire Fighting Measures (Continued)

5.3 Advice for fire fighters

Protective Equipment Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

5.4 Additional information No further relevant information available.

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions Observe general safety guidelines for protection; avoid eye and skin contact. Wear protective gloves, protective clothing and eye/face protection.

6.2 Environmental Precautions Contain spill to prevent migration or evaporation. Do not allow the undiluted product to enter sewers/surface or ground water. Dispose of contents/container in accordance with local regulations

6.3 Methods and material for containment and cleaning up

Spill and Leak Procedures Ventilate area. Remove all sources of ignition. Contain spill and collect with inert absorbent and place in a suitable container for disposal. Dispose of all waste material in accordance with local guidelines.

6.4 Reference to other sections Refer sections 8 and 13.

Section 7 Handling and Storage

7.1 Precautions for safe handling Use good laboratory procedures; avoid eye and skin contact.

7.2 Conditions for safe storage, including any incompatibilities

Store at 15 to 30°C, as directed on the product label.
To maintain product quality, store according to the instructions in the product labeling.
Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).

7.3 Specific end uses No further relevant information available.

Section 8 Exposure Controls and Personal Protection

8.1 Control parameters

Exposure Limits

US OSHA

Hydrogen Peroxide 1 ppm TWA; 1.4 mg/m³ TWA
CAS # 7722-84-1

ACGIH

Hydrogen Peroxide 1 ppm TWA
CAS # 7722-84-1

Section 8 Exposure Controls and Personal Protection (Continued)

DFG MAK

Hydrogen Peroxide
CAS # 7722-84-1 0.5 ppm Peak; 0.71 mg/m³ Peak; 0.5 ppm TWA MAK; 0.71 mg/m³ TWA MAK

Ireland

Hydrogen Peroxide
CAS # 7722-84-1 1 ppm TWA; 1.5 mg/m³ TWA; 2 ppm STEL; 3 mg/m³ STEL

IOELVs

None established

NIOSH

Hydrogen Peroxide
CAS # 7722-84-1 75 ppm IDLH; 1 ppm TWA; 1.4 mg/m³ TWA

Japan

None established

8.2 Exposure controls

Engineering Controls

No special engineering controls are required. Use with good general ventilation.

Eye Protection

Safety glasses or chemical goggles should be worn to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.

Skin Protection

Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact. Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards.

Respiratory Protection

Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid	Specific Gravity (Water=1.0)	0.90 @20°C
Color	Colorless	Solubility	
Transparency	Clear	Water	Miscible
Odor	Alcohol odor	Organic	Not determined
pH	5-5.5	Partition coefficient: n-octanol/water	Not determined
Freezing Point	Not determined	Auto-ignition Temp.	Not determined
Boiling Point	< 100°C (212°F)	Decomposition Temperature	Not determined
Flash Point	21°C (69.8°F)	Percent Volatiles	Not determined

Section 9 Physical and Chemical Properties (Continued)

Evaporation Rate	Not determined	Vapor Pressure	18 mm Hg @19°C
Flammability (Solid, Gas)	Not applicable	Viscosity	Not determined
Flammability Limits	Not determined	Explosive Properties	Not applicable
Vapor Density	1.6 (air=1)	Oxidizing Properties	Not applicable
Odor Threshold	Not applicable		
9.2 Other Information	No further relevant information available.		

Section 10 Stability and Reactivity

10.1 Reactivity	No further relevant information available.
10.2 Chemical Stability	The product is stable in accordance with recommended storage conditions.
10.3 Possibility of hazardous reactions	Avoid exposure to heat and incompatible materials.
10.4 Conditions to Avoid	Avoid contact with incompatible materials. Avoid exposure to heat and direct sunlight.
10.5 Incompatible materials	Oxidizing agents
10.6 Hazardous Decomposition Products	No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

Section 11 Toxicological Information

11.1 Information on toxicological effects	
Toxicity Data for Hazardous Ingredients	
Hydrogen Peroxide CAS # 7722-84-1	Inhalation LC50 Rat 2 mg/L 4 h; Oral LD50 Rat 801 mg/kg; Dermal LD50 Rat 4060 mg/kg; Dermal LD50 Rabbit 2000 mg/kg
octylphenoxypoly(ethoxyethanol) CAS # 9036-19-5	Oral LD50 Rat 4190 mg/kg
Primary Routes of Exposure	Eye contact, ingestion, inhalation, and skin contact.
Skin Corrosion/Irritation	Causes skin irritation.
Serious eye damage/eye irritation	Contact may cause serious eye damage.
Respiratory/skin sensitization	No data available.
Carcinogenicity	This product does not contain a reportable concentration ($\geq 0.1\%$) of any ingredient listed as carcinogen by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.
Germ cell mutagenicity	No data available.
Reproductive Toxicity	No data available.

Section 11 Toxicological Information (Continued)

Specific target organ toxicity – single exposure

May cause damage to organs.

Specific target organ toxicity – repeated exposure

No data available.

Aspiration hazard

No data available.

Other Information

May be harmful if swallowed

May be harmful In contact with skin

Section 12 Ecological Information

12.1 Ecotoxicity

Fresh Water Species

Citric Acid
CAS # 77-92-9

96 h LC50 *Lepomis macrochirus*: 1516 mg/L [static]

Hydrogen Peroxide
CAS # 7722-84-1

96 h LC50 *Pimephales promelas*: 16.4 mg/L; 96 h LC50 *Lepomis macrochirus*: 18-56 mg/L [static]; 96 h LC50 *Oncorhynchus mykiss*: 10.0-32.0 mg/L [static]

Microtox

No information available.

Water Flea

Hydrogen Peroxide
CAS # 7722-84-1

24 h EC50 *Daphnia magna*: 7.7 mg/L; 48 h EC50 *Daphnia magna*: 18 - 32 mg/L [Static]

Fresh Water Algae

No information available.

12.2 Persistence and degradability Not determined for the product.

12.3 Bioaccumulation Not determined for the product.

12.4 Mobility in soil Not determined for the product.

12.5 Results of PBT and vPvB assessment

Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

12.6 Other Adverse Effects No further relevant information available.

Section 13 Disposal Considerations

13.1 Waste treatment methods

Product Waste Disposal

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

Package disposal

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

13.2 Additional information

Suggested European waste catalogue 18 01 06* - chemicals consisting of or containing dangerous substances. Dispose in accordance with national, state and local waste regulations.

Section 14 Transport Information

Shipping Information	IATA	IMDG	US DOT	European ADR	Canadian TDG
14.1 UN/ID Number	1987	1987	1987	1987	PIN - 1987
14.2 Shipping Name	Alcohols, n.o.s. (Ethanol methanol solution)				
14.3 Hazard Class	3 Flammable Liquids	3 Flammable liquids	3 Flammable liquid	3 Flammable Liquids	3 Flammable Liquids
Subsidiary Risk	None	None	None	None	None
Classification Code	Not applicable	Not applicable	Not applicable	F1	Not applicable
14.4 Packing Group	II	II	II	II	II
Special Provisions	A3	274	None	None	None
Additional information					
IATA ERG Code	3L	Not applicable	Not applicable	Not applicable	Not applicable
EmS	Not applicable	F-E, S-D	Not applicable	Not applicable	Not applicable
NAERG Code	Not applicable	Not applicable	127	Not applicable	127
14.5 Environmental Hazards					
Marine Pollutant	Not applicable	No	Not applicable	Not applicable	Not applicable
14.6 Special Precautions for user	Warning: Flammable liquid.				
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable				

Section 15 Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture US Federal and State Regulations

SARA 313	Ethylene Oxide is subject to reporting requirements of Section 313, Title III of SARA. 0.1 % de minimis concentration 1,4-Dioxane is subject to reporting requirements of Section 313, Title III of SARA. 0.1 % de minimis concentration
CERCLA RG's, 40 CFR 302.4	Ethylene Oxide is listed. 1,4-Dioxane is listed.

Section 15 Regulatory Information (Continued)

California Proposition 65

Ethylene Oxide has been identified by the State of California to cause cancer and reproductive harm. The State of California has adopted a regulation which requires a warning be given to individual who may be exposed to chemicals identified by the State to cause cancer or reproductive harm.

WARNING: This product contains a chemical known to the State of California to cause cancer and reproductive harm.

1,4-Dioxane has been identified by the State of California to cause cancer. The State of California has adopted a regulation which requires a warning be given to individual who may be exposed to chemicals identified by the State to cause cancer or reproductive harm.

WARNING: This product contains a chemical known to the State of California to cause cancer.

Massachusetts MSL

Ethylene Oxide is listed.

1,4-Dioxane is listed.

Hydrogen Peroxide is listed.

New Jersey Dept. of Health RTK List

Ethylene Oxide is listed.

1,4-Dioxane is listed.

Hydrogen Peroxide is listed.

Pennsylvania RTK

Ethylene Oxide is listed.

1,4-Dioxane is listed.

Hydrogen Peroxide is listed.

EU Regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

Water Hazard Class (Germany) WGK 1, low water endangering

REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.

No ingredients listed.

According to EC Directives (1999/45/EC and 67/548 EEC)

Harmful
Xn



Risk and Safety Phrases

R10 Flammable.

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R68/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.

S16 Keep away from sources of ignition - No smoking.

S36/37 Wear suitable protective clothing and gloves.

S7 Keep container tightly closed.

Canada

This product is exempt from WHMIS label and SDS requirements.

PIN

1987

Section 15 Regulatory Information (Continued)

Ingredients on Ingredient Disclosure List

Ethylene Oxide
Citric Acid
1,4-Dioxane
Hydrogen Peroxide
octylphenoxypoly(ethoxyethanol)

Ingredients with unknown toxicological properties

Product is exempt

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.

Section 16 Other Information

Beckman Coulter Safety Rating	Flammability: 3 Health: 2 Reactivity with Water: 2 Contact: 2	Code 0=None 1=Slight 2=Caution 3=Severe
--------------------------------------	--	---

Revision Changes

Updated to GHS.

Hazard Class, hazard statements and risk phrase description from section 3

C - Corrosive
F - Highly flammable
O - Oxidising
Xi - Irritant
Xn - Harmful
R11 Highly flammable.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R68/20/21/22 Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed.
R35 Causes severe burns.
R20/22 Harmful by inhalation and if swallowed.
R36 Irritating to eyes.
R37/38 Irritating to respiratory system and skin.
R41 Risk of serious damage to eyes.
R5 Heating may cause an explosion.
R8 Contact with combustible material may cause fire.
Acute Tox. Dermal 4 - Acute Toxicity Dermal, Category 4
Acute Tox. Inhal. 4 - Acute Toxicity Inhalation, Category 4
Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4
Acute Tox. Oral 5 - Acute Toxicity Oral, Category 5
Eye Dam. 1 - Eye Damage Category 1
Eye Irrit. 2 - Eye Irritation Category 2
Flam. Liq. 2 - Flammable Liquids, Category 2

Section 16 Other Information (Continued)

Ox. Liq. 1 - Oxidizing Liquids Category 1
Skin Corr. 1A - Skin Corrosion Category 1A
STOT SE 2 - Specific Target Organ Toxicity Single Exposure Category 2
STOT SE 3 - Specific Target Organ Toxicity Single Exposure Category 3
H225 - Highly flammable liquid and vapour.
H271 - May cause fire or explosion; strong oxidiser.
H302 - Harmful if swallowed.
H303 - May be harmful if swallowed
H312 - Harmful in contact with skin.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H335 - May cause respiratory irritation.
H371 - May cause damage to organs.

Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists
ADR - European Agreement Concerning The International Carriage Of Dangerous Goods By Road
CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act
CLP - Classification, Labeling and Packaging
DFGMAK - Republic Germany's maximum exposure limit
GHS - Globally Harmonized System
HCS - Hazard Communication Standard
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
ICAO - International Civil Aviation Organization
IMDG - International Maritime Dangerous Goods
IOELVs - European Unions' Indicative Occupational Exposure Limit Values
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
PBT - Persistent bioaccumulative and toxic substances
SARA - Superfund Amendments and Reauthorization Act
TDG - Canadian Transportation Of Dangerous Goods Regulations.
UN GHS - United Nations Globally Harmonized System
US DOT - United States Department of Transportation
WHMIS - Workplace Hazardous Material Information System
vPvB - Very persistent and very bioaccumulative substances
LC50 - Lethal Concentration, 50%
LD50 - Lethal Dose, 50%

Section 16 Other Information (Continued)

EC50 - Effective Concentration, 50%

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Product Number: 538AD
Issuing Date: May 31, 2015

Product Name: Germ-X Hand Sanitizer-Morning Fresh
Revision Date: None
Revision Number: 0



VI-JON[®]

Safety Data Sheet



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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name 538AD Germ-X Hand Sanitizer - Morning Fresh

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Hand sanitizer

Uses advised against Use only as directed.

Details of the supplier of the safety data sheet

Supplier Name Vi-Jon Inc.

Supplier Address Vi-Jon Inc.
8800 Page Avenue
Saint Louis
MO
63114
US

Supplier Phone Number Phone: 314-427-1000 (M-F 8am-4pm CST)

Fax: 314-427-1010

Supplier Email info@vijon.com

Emergency telephone number Chemtrec: 1-800-424-9300 (24-Hour)



Product Number: 538AD
Issuing Date: May 31, 2015

Product Name: Germ-X Hand Sanitizer-Morning Fresh
Revision Date: None
Revision Number: 0

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids

Category 3

GHS Label elements, including precautionary statements

Emergency Overview

Signal word

Flammable liquid and vapor

Warning



Appearance: Clear to Slightly Hazy,
Pale Blue, Viscous Liquid

Physical State: Viscous Liquid

Odor: Alcohol, Fresh

Precautionary Statements - Prevention

Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ ventilating/ lighting/ equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage

Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

0.218% of the mixture consists of ingredient(s) of unknown toxicity

Other information

Toxic to aquatic life with long lasting effects
PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION
May cause slight eye irritation

Interactions with Other Chemicals

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Ethyl Alcohol 62 %v/v	64-17-5	50-100	*
Benzophenone-4	4065-45-6	0-10	*
Blue 1	3844-45-9	0-10	*
Carbomer	Proprietary	0-10	*
Fragrance	Proprietary	0-10	*
Glycerin	56-81-5	0-10	*
Isopropyl Alcohol	67-63-0	0-10	*
Isopropyl Myristate	110-27-0	0-10	*
Tocopheryl Acetate	7695-91-2	0-10	*
Water	7732-18-5	10-50	*

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

General Advice

Call 911 or emergency medical service. Remove and isolate contaminated clothing and shoes.

Eye Contact

If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing.

Skin Contact

In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, (trained personnel should) give oxygen.

Ingestion

Do NOT induce vomiting. Drink plenty of water. If symptoms persist, call a physician.

Self-protection of the first aider

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects

No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical. Carbon dioxide (CO₂). Water spray. Alcohol resistant foam.

Unsuitable Extinguishing Media

CAUTION: All these products have a very low flash point. Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from the Chemical

Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Uniform Fire Code Flammable Liquid: I-C

Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge Yes.

Protective equipment and precautions for firefighters

Move containers from fire area if you can do it without risk.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk.

Other Information Water spray may reduce vapor; but may not prevent ignition in closed spaces.

Environmental Precautions

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for Containment A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Methods for cleaning up Use clean non-sparking tools to collect absorbed material. Dike far ahead of liquid spill for later disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Use personal protection equipment. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Keep in an area equipped with sprinklers. Avoid contact with skin, eyes or clothing.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with the particular national regulations. Store in accordance with local regulations.

Incompatible Products Strong oxidizing agents. Acids. Chlorinated compounds.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

There is no exposure data pertaining to the Product. This section reflects exposure data pertaining to individual ingredients.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl Alcohol 62% v/v 64-17-5	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm 10% LEL TWA: 1000 ppm TWA: 1900 mg/m ³
Glycerin 56-81-5	TWA: 10 mg/m ³ mist	TWA: 15 mg/m ³ mist, total particulate TWA: 5 mg/m ³ mist, respirable fraction (vacated) TWA: 10 mg/m ³ mist, total particulate (vacated) TWA: 5 mg/m ³ mist, respirable fraction	
Isopropyl Alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³	IDLH: 2000 ppm 10% LEL TWA: 980 mg/m ³ TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m ³

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

Appropriate engineering controls

Engineering Measures

Showers
 Eyewash stations
 Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Tight sealing safety goggles.

Skin and Body Protection

Wear protective gloves and protective clothing. Long sleeved clothing. Chemical resistant apron. Impervious gloves. Antistatic boots.

Respiratory Protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State	Viscous Liquid		
Appearance	Clear to Slightly Hazy, Pale Blue, Viscous Liquid	Odor	Alcohol, Fresh
Color	Pale Blue	Odor Threshold	No information available
<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>	
pH	7.5	None known	
Melting / freezing point	No data available	None known	
Boiling point / boiling range	No data available	None known	
Flash Point	23 C / 73 F	None known	
Evaporation Rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limit in Air			
Upper flammability limit	No data available		
Lower flammability limit	No data available		
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Specific Gravity	0.90	None known	
Water Solubility	Miscible in water	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/water	No data available	None known	
Autoignition temperature	No data available	None known	
Decomposition temperature	No data available	None known	
Kinematic viscosity	No data available	None known	
Dynamic viscosity	No data available	None known	
Explosive properties	No data available		
Oxidizing Properties	No data available		
<u>Other Information</u>			
Softening Point	No data available		
VOC Content (%)	No data available		
Particle Size	No data available		
Particle Size Distribution	No data available		

10. STABILITY AND REACTIVITY

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames, and sparks.

Incompatible materials

None known.

Hazardous Decomposition Products

Carbon oxides.

Other Adverse Effects

No information available.

When used in accordance with the directions.



11. TOXICOLOGICAL INFORMATION

There is no data for this product. The information included in this section describes the potential hazards of the individual ingredients.

Information on likely routes of exposure

Product Information	Product does not present an acute toxicity hazard based on known or supplied information.
Inhalation	Specific test data for the substance or mixture is not available.
Eye Contact	Specific test data for the substance or mixture is not available.
Skin Contact	Specific test data for the substance or mixture is not available.
Ingestion	Specific test data for the substance or mixture is not available.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Ethyl Alcohol 62% v/v 64-17-5	-	-	= 124.7 mg/L (Rat) 4 h
Glycerin 56-81-5	-	> 10 g/kg (Rabbit)	-
Isopropyl Alcohol 67-63-0	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rabbit)	= 16000 ppm (Rat) 8 h
Isopropyl Myristate 110-27-0	> 10000 mg/kg (Rat)	= 5 g/kg (Rabbit)	> 41 mg/L (Rat)
Water 7732-18-5	> 90 mL/kg (Rat)	-	-

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ethyl Alcohol 62% v/v 64-17-5	A3	Group 1	Known	X
Blue 1 3844-45-9		Group 3		
Isopropyl Alcohol 67-63-0		Group 3		X

ACGIH (American Conference of Governmental Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Reproductive Toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposure No information available.

Chronic Toxicity None

Target Organ Effects Blood. Central Nervous System (CNS). Eyes. Liver. Reproductive System. Respiratory system. Skin. Kidney. Spleen. Systemic Toxicity.

Aspiration Hazard No information available.



Product Number: 538AD
Issuing Date: May 31, 2015

Product Name: Germ-X Hand Sanitizer-Morning Fresh
Revision Date: None
Revision Number: 0

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (inhalation-dust/mist)

228.70 mg/l

ATEmix (inhalation-vapor)

1,872.36 ATEmix

12. ECOLOGICAL INFORMATION

There is no ecological data on the Product. The Product ingredients are expected to be safe for the environment at concentrations predicted under normal use and accidental spill scenarios. Packaging components are compatible with the conventional solid waste management practices.

Ecotoxicity

Toxic to aquatic life with long lasting effects.

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated Packaging Do not reuse empty containers.

US EPA Waste Number D001

California Hazardous Waste Codes 331

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name CONSUMER COMMODITY
Hazard Class ORM-D
Description CONSUMER COMMODITY, ORM-D
Emergency Response Guide Number 127

TDG

UN-No. UN1170
Proper Shipping Name ETHANOL
Hazard Class 3
Packing Group III
Description UN1170, ETHANOL, 3, PG III

MEX

UN-No. UN1170
Proper Shipping Name ETHANOL
Hazard Class 3
Packing Group III
Description UN1170, ETHANOL, 3, III

ICAO

UN-No. UN1170
Proper Shipping Name ETHANOL SOLUTION
Hazard Class 3
Packing Group III
Description UN1170, ETHANOL SOLUTION, 3, PG III



Product Number: 538AD
Issuing Date: May 31, 2015

Product Name: Germ-X Hand Sanitizer-Morning Fresh
Revision Date: None
Revision Number: 0

IATA

UN-No.	UN1170
Proper Shipping Name	ETHANOL SOLUTION
Hazard Class	3
Packing Group	III
Description	UN1170, ETHANOL SOLUTION, 3, PG III

IMDG/IMO

UN-No.	UN1170
Proper Shipping Name	ETHANOL
Hazard Class	3
Packing Group	III
EmS No.	F-E, S-D
Description	UN1170, ETHANOL, 3, PG III, FP 34C

RID

UN-No.	UN1170
Proper Shipping Name	ETHANOL (ETHYL ALCOHOL)
Hazard Class	3
Packing Group	III
Classification code	F1
Description	UN1170, ETHANOL (ETHYL ALCOHOL), 3, III

ADR

UN-No.	UN1170
Proper Shipping Name	ETHANOL (ETHYL ALCOHOL)
Hazard Class	3
Packing Group	III
Classification code	F1
Tunnel restriction code	(D/E)
Description	UN1170, ETHANOL (ETHYL ALCOHOL), 3, III

ADN

UN-No.	UN1170
Proper Shipping Name	ETHANOL
Hazard Class	3
Packing Group	III
Classification code	F1
Special Provisions	144, 601
Description	UN1170, ETHANOL, 3, III
Hazard Labels	3
Limited Quantity	LQ7
Ventilation	VE01



Product Number: 538AD
Issuing Date: May 31, 2015

Product Name: Germ-X Hand Sanitizer-Morning Fresh
Revision Date: None
Revision Number: 0

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL All components are listed either on the DSL or NDSL.
IECSC -

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Isopropyl Alcohol - 67-63-0	67-63-0	0 - 10	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

CERCLA

This material, as supplied, does not contain substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

US State Regulations

California Proposition 65 - NONE

This product contains the following Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Ethyl Alcohol 62% v/v 64-17-5		X			
Blue 1 3844-45-9		X			
Glycerin 56-81-5	X	X	X	X	
Isopropyl Alcohol 67-63-0	X	X	X	X	



Product Number: 538AD
 Issuing Date: May 31, 2015

Product Name: Germ-X Hand Sanitizer-Morning Fresh
 Revision Date: None
 Revision Number: 0

International Regulations

Mexico

National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Ethyl Alcohol 62% v/v 64-17-5 (50 - 100)		Mexico: TWA 1000 ppm Mexico: TWA 1900 mg/m ³
Glycerin 56-81-5 (0 - 10)	-	10mg/m ³ (mist) TWA
Isopropyl Alcohol 67-63-0 (0 - 10)		Mexico: TWA 400 ppm Mexico: TWA 980 mg/m ³ Mexico: STEL 500 ppm Mexico: STEL 1225 mg/m ³

Mexico - Occupational Exposure Limits - Carcinogens

Canada

WHMIS Hazard Class

B2
 D2A



16. OTHER INFORMATION

NFPA	Health Hazards 1	Flammability 3	Instability 0	Physical and Chemical Hazards -
HMIS	Health Hazards 0	Flammability 3	Physical Hazard 0	Personal Protection X

Prepared By WERCS Professional Services, LLC
 23 British American Blvd.
 Latham, NY 12110
 1-800-572-6501

Issuing Date May 31, 2015

Revision Date None

Revision Note None

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Approved and Updated by Vi-Jon, Inc.

Disclaimer:

The information and recommendations contained in the Safety Data Sheet (SDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein are presented in good faith and believed to be correct as of this date hereof.

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End of Safety Data Sheet



SAFETY DATA SHEET

Confirms to OSHA Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012

GOO GONE.

Product: Goo Gone Pro-Power Goo and Adhesive Remover- 2180A

Revision Date: 23-Aug-2017

SECTION 1 – IDENTIFICATION

Product Identifier

Product Name: Goo Gone Pro-Power Goo and Adhesive Remover

Product Code: 2180A

Recommended Use of the Chemical and Restrictions for Use

Recommended Use: Cleaner

Restrictions for Use: Use only as directed.

Details of the Supplier

Manufacturer: Goo Gone
755 Tri-State Parkway
Gurnee, IL 60031
855-364-8135

Emergency Phone Number

24-Hour Number: 1-800-535-5053

International: 1-352-323-3500

SECTION 2 – HAZARDS IDENTIFICATION

Classification

Hazard Class	Category
Flammable Liquid	4
Skin Sensitization	1
Aspiration Hazard	1

Label Elements

Hazard Symbols(s):



Signal Word(s): Danger

Hazard Statement(s): Combustible liquid. May cause an allergic skin reaction. May be fatal if swallowed and enters airways.

Precautionary Statement(s): Keep away from flames and hot surfaces. No smoking. Avoid breathing fume/mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting. If on skin: Wash with plenty of water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents and container in accordance with all local, regional, national and international regulations.

Other Hazards

2% of the mixture consists of ingredient(s) of unknown acute toxicity.

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Wt %
Petroleum distillates, hydrotreated light	64742-47-8	60-100
D-Limonene	5989-27-5	1-5
Orange, sweet, extract	8028-48-6	0.5-5

The exact percentage (concentration) of composition has been withheld as a trade secret in accordance with paragraph (i) of §1910.1200.

SAFETY DATA SHEET

Confirms to OSHA Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012

Product: Goo Gone Pro-Power Goo and Adhesive Remover- 2180A

Revision Date: 23-Aug-2017

SECTION 4 – FIRST AID MEASURES

First Aid Measures

Inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.

Eye Contact: In case of contact, immediately flush eyes with plenty of water. Remove contact lenses, if worn. If irritation persists, seek medical attention immediately.

Ingestion: If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

Skin: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash with soap and water. If irritation persists, seek medical attention.

Most Important Symptoms and Effects (Acute and Delayed)

Inhalation: May cause respiratory track irritation.

Eye Contact: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.

Ingestion: May be fatal if swallowed and enters airways. This product may be aspirated into the lungs and cause chemical pneumonitis. May cause stomach distress, nausea or vomiting.

Skin: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin. May cause sensitization by skin contact.

Indication of any Immediate Medical Attention and Special Treatment Needed

Note to Physician: Treat symptomatically.

SECTION 5 – FIRE FIGHTING MEASURES

Extinguishing Media

Suitable: Treat for surrounding material.

Unsuitable: None known.

Specific Hazards Arising from Chemical

Products of combustion include but are not limited to: oxides of carbon. Combustible liquid.

Protective Equipment and Precautions for Firefighters

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA). As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Personal Precautions: Use personal protective equipment as required.

Environmental Precautions: See Section 12 for ecological information.

Methods and Material for Containment and Cleaning Up

Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE). For cleaning up scoop up material and place in a disposal container. Provide ventilation.

SECTION 7 – HANDLING AND STORAGE

Precautions for Safe Handling

Handling: Keep away from sources of ignition. - No smoking. Avoid contact with skin and eyes. Avoid breathing in vapor or mist. Do not swallow. Handle and open container with care. Wash hands after use. Do not eat, drink, or smoke when using this product.

General Hygiene Advice: Launder contaminated clothing before use. Wash hands before eating, drinking, or smoking.

SAFETY DATA SHEET

Confirms to OSHA Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012

Product: Goo Gone Pro-Power Goo and Adhesive Remover- 2180A

Revision Date: 23-Aug-2017

Conditions for Safe Storage, Including any Incompatibilities

Storage Conditions: Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Keep cool.

Incompatible Materials: Oxidizers

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Guidelines:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Petroleum distillates, hydrotreated light (64742-47-8)	200 mg/m ³	100 ppm	Not available
D-Limonene (5989-27-5)	Not available	Not available	Not available
Orange, sweet, extract (8028-48-6)	Not available	Not available	Not available

Appropriate Engineering Controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Individual Protection Measures

Respiratory Protection: None required for normal use. In case of insufficient ventilation, wear suitable respiratory equipment. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Skin and Body Protection: Wear suitable protective clothing.

Eye/Face Protection: Safety glasses or goggles are recommended when using product.

General Work/Hygienic Practices: Do not eat, smoke or drink where material is handled, processed or stored. Wash hands carefully before eating or smoking. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Yellow gel

Odor: Citrus

Odor threshold: Not determined

pH: Not determined

Melting point/freezing point: Not determined

Initial boiling point and boiling range: Not determined

Flash point: 85°C (185°F) TCC

Evaporation rate: Not determined

Flammability (solid, gas): Flammable

Upper/lower flammability or explosive limits: Not determined

Vapor pressure: Not determined

Vapor density: Not determined

Relative density: 0.81

Solubility(ies): Not determined

Partition coefficient (n-octanol/water): Not determined

Auto-ignition temperature: Not determined

Decomposition temperature: Not determined

Viscosity: 10-50 cP @ 20°C (68°F)

SECTION 10 – STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Chemical stability: Stable under recommended storage conditions.

SAFETY DATA SHEET

Confirms to OSHA Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012



Product: Goo Gone Pro-Power Goo and Adhesive Remover- 2180A

Revision Date: 23-Aug-2017

Possibility of hazardous reactions: None under normal use.

Conditions to avoid: Heat. Incompatible materials. Sources of ignition.

Incompatible materials: Oxidizers

Hazardous decomposition products: May include and are not limited to: oxides of carbon.

SECTION 11 - TOXICOLOGICAL INFORMATION

Information on Toxicological Effects

Likely Routes of Exposure: Inhalation, skin contact, eye contact, ingestion

Information Related to Physical, Chemical, and Toxicological Effects

See section 4 of this SDS.

Delayed and Immediate Effects as well as Chronic Effects from Short and Long-term Exposure

Carcinogenicity: NTP: No IARC: No OSHA: No

Numerical Measures of Toxicity

Product	
ATE (oral)	>2000 mg/kg, rat
ATE (dermal)	>2000 mg/kg, rabbit
ATE (inhalation)	Not available

Component Information:

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Petroleum distillates, hydrotreated light (64742-47-8)	>5000 mg/kg, rat	>2000 mg/kg, rabbit	>5.2 mg/l/4h, rat
D-Limonene (5989-27-5)	4400 mg/kg, rat	>5000 mg/kg, rabbit	Not available
Orange, sweet, extract (8028-48-6)	>5000 mg/kg, rat	>5000 mg/kg, rabbit	Not available

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity: Not established

Persistence and degradability: Not established

Bioaccumulative potential: Not established

Mobility in soil: No additional information available

Other adverse effects: No additional information available.

SECTION 13 – DISPOSAL CONSIDERATIONS

See section 8 of this SDS for exposure controls and personal protection.

Dispose of the product and container in accordance with all applicable local, state, and federal regulations.

SECTION 14 – TRANSPORT INFORMATION

Note: Classification changes based on quantity, packaging, and method of shipment. See current shipping paper for most up to date shipping information.

DOT (Ground): Not Regulated- See 49 CFR 173.150(f)(2) as the product is not bulk packaged.

IATA (Air): Not Regulated

IMDG (Vessel): Not Regulated

SECTION 15 – REGULATORY INFORMATION

All ingredients in this product are listed or are excluded from listing on the US Toxic Substances Act (TSCA) Chemical Substance Inventory.

This product is labeled in accordance with regulations administered by the Consumer Product Safety Commission (CPSC). The use pattern and exposure in the workplace are generally not consistent with those experienced by consumers. The

SAFETY DATA SHEET

Confirms to OSHA Hazard Communication Standard (CFR 29 1910.1200) HazCom 2012



Product: Goo Gone Pro-Power Goo and Adhesive Remover- 2180A

Revision Date: 23-Aug-2017

requirements of the Occupational Safety and Health Administration (OSHA) applicable to this Safety Data Sheet differ from the requirements of the CPSC and as a result, this SDS may contain additional health hazard information not pertinent to consumer use and not found on the product label.

SECTION 16 – OTHER INFORMATION

Issue Date: 23-Aug-2017

Revision Date: 23-Aug-2017

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal, and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designed and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



SAFETY DATA SHEET

Doc. ID: 62115 Rev. AP
Revised (year/month/day) 2015/04/15

Section 1 Identification of the Substance/mixture and of the Company/undertaking

1.1 Product Identifier

Product Name Hemocult Developer
Part Number 60151, 60152, 61100, 61130, 61200, 62115, 63202
Series Name 60000 Series

1.2 Relevant identified uses of the substance or mixture and uses advised against

Product Use For In Vitro Diagnostic Use. See product literature for details.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Beckman Coulter, Inc.
250 S. Kraemer Blvd
Brea, CA 92821, U.S.A.
Tel: 800-854-3633

EC REP Address

Beckman Coulter Eurocenter S.A.
22, rue Juste-Oliver, Case Postale 1044,
CH-1260 Nyon 1, Switzerland.
Telephone +41 (0)22 365 36 11
Monday through Friday, 9:00 am to
7:00pm)

e-mail address SDSNT@beckman.com

1.4 Emergency telephone number

Telephone number (24H) Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001) 703-527-3887

Distributor and Emergency Phone No.

Refer to attached list, Document ID: A86357, for local distributor and emergency phone numbers.

Section 2 Hazards Identification

2.1 Classification of substance or mixture

Product Description Mixture
Colorless; Clear; Liquid; Alcohol odor

Classification according to EC 1272/2008 (CLP/GHS)

Flammable Liquids, Category 2
Skin Irritation Category 2
Eye Damage Category 1

Classification according to EC Directives 1999/45/EC and 67/548/EEC

F;R11

Section 2 Hazards Identification (Continued)

Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS

Flammable Liquids, Category 2
Acute Toxicity Oral, Category 5
Skin Irritation Category 2
Eye Damage Category 1

2.2 Label Elements

According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS

Hazardous Ingredients

Ethyl Alcohol
Isopropyl Alcohol
Hydrogen Peroxide

Pictogram



Signal Word

DANGER

Hazard Statements

H225 Highly flammable liquid and vapour.
H303 May be harmful if swallowed
H315 Causes skin irritation.
H318 Causes serious eye damage.

Precautionary Statements

P210 Keep away from heat, hot surfaces, and sparks. No smoking.
P233 Keep container tightly closed.
P240 Ground container and receiving equipment.
P241 Use explosion-proof electrical equipment.
P242 Use non-sparking tools.
P243 Take action to prevent static discharge.
P280 Wear protective gloves, protective clothing and eye/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P303+P361+P353 IF ON SKIN (or hair): Rinse skin with water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER or doctor/physician.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before use.
P370+P378 In case of fire: Use water spray for extinction.
P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with local/national regulations
Product label will display most significant precautionary statements. 82.2% of product contains ingredients of unknown oral toxicity.

Section 2 Hazards Identification (Continued)

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

See Section 11 Toxicological Information for more detailed health information.

Section 3 Composition and Information on Ingredients

3.2 Mixtures

Hazardous Ingredients:		Hazard Classification of Pure Ingredients			
Chemical Name	% by wt.	EU-67/548/EEC	EU 1272/2008 CLP/GHS	GHS	
Ethyl Alcohol CAS # 64-17-5 EINECS # 200-578-6 Index # 603-002-00-5	75-85	F;R11	Flam. Liq. 2 H225	Flam. Liq. 2 H225	
Hydrogen Peroxide CAS # 7722-84-1 EINECS # 231-765-0 Index # 008-003-00-9	3-6	O;R5-8 C;R35-20/22	Acute Tox. Inhal. 4 Acute Tox. Oral 4 Eye Dam. 1 Ox. Liq. 1 STOT SE 3 Skin Corr. 1A H271; H302; H314; H318; H332; H335	Acute Tox. Inhal. 4 Acute Tox. Oral 4 Eye Dam. 1 Ox. Liq. 1 STOT SE 3 Skin Corr. 1A H271; H302; H314; H318; H332; H335	
Isopropyl Alcohol CAS # 67-63-0 EINECS # 200-661-7 Index # 603-117-00-0	3-6	F;R11 Xi;R36-67	Eye Irrit. 2 Flam. Liq. 2 STOT SE 3 H225; H319; H336	Eye Irrit. 2 Flam. Liq. 2 STOT SE 3 H225; H319; H336	

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

See Section 16 for hazard class, hazard statements and risk phrase description

Section 4 First Aid Measures

4.1 Description of first aid measures

Inhalation

If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.

Eye Contact

If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.

Skin Contact

In case of skin contact, flush with copious amounts of water for at least 15 minutes. If pain or irritation occur, obtain medical attention.

Ingestion

If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

Section 4 First Aid Measures (Continued)

4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye damage.
Causes skin irritation.
May be harmful if swallowed
See Section 11 Toxicological Information for more detailed health information.

4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

Section 5 Fire Fighting Measures

Flammable Properties Flammable liquid and vapor.

5.1 Extinguishing Media

Dry chemical, carbon dioxide or alcohol resistant foam. Use water spray to cool containers exposed to fire.

5.2 Special hazards arising from the substance or mixture

Special Fire and Explosion Hazards

Vapors form explosive mixtures with air above flash point. Vapors are heavier than air; fire may flash from ignition source back along vapor trail.

Hazardous Combustion Products

Oxides of carbon

5.3 Advice for fire fighters

Protective Equipment

Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.

5.4 Additional information

No further relevant information available.

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Precautions

Observe general safety guidelines for protection; avoid eye and skin contact.
Wear protective gloves, protective clothing and eye/face protection.

6.2 Environmental Precautions

Contain spill to prevent migration or evaporation.
Do not allow the undiluted product to enter sewers/surface or ground water.
Dispose of contents/container in accordance with local regulations

6.3 Methods and material for containment and cleaning up

Spill and Leak Procedures

Ventilate area. Remove all sources of ignition. Contain spill and collect with inert absorbent and place in a suitable container for disposal.
Dispose of all waste material in accordance with local guidelines.

6.4 Reference to other sections

Refer sections 8 and 13.

Section 7 Handling and Storage

- 7.1 Precautions for safe handling** Use good laboratory procedures; avoid eye and skin contact.
Avoid inhalation of vapor or mist.
- 7.2 Conditions for safe storage, including any incompatibilities**
Store at 15 to 30°C, as directed on the product label.
To maintain product quality, store according to the instructions in the product labeling.
Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).
- 7.3 Specific end uses** No further relevant information available.

Section 8 Exposure Controls and Personal Protection

8.1 Control parameters

Exposure Limits

US OSHA

Ethyl Alcohol CAS # 64-17-5	1000 ppm TWA; 1900 mg/m ³ TWA
Isopropyl Alcohol CAS # 67-63-0	400 ppm TWA; 980 mg/m ³ TWA
Hydrogen Peroxide CAS # 7722-84-1	1 ppm TWA; 1.4 mg/m ³ TWA

ACGIH

Ethyl Alcohol CAS # 64-17-5	1000 ppm STEL
Isopropyl Alcohol CAS # 67-63-0	400 ppm STEL; 200 ppm TWA
Hydrogen Peroxide CAS # 7722-84-1	1 ppm TWA

DFG MAK

Ethyl Alcohol CAS # 64-17-5	1000 ppm Peak; 1920 mg/m ³ Peak; 500 ppm TWA MAK; 960 mg/m ³ TWA MAK
Isopropyl Alcohol CAS # 67-63-0	400 ppm Peak; 1000 mg/m ³ Peak; 200 ppm TWA MAK; 500 mg/m ³ TWA MAK
Hydrogen Peroxide CAS # 7722-84-1	0.5 ppm Peak; 0.71 mg/m ³ Peak; 0.5 ppm TWA MAK; 0.71 mg/m ³ TWA MAK

Ireland

Ethyl Alcohol CAS # 64-17-5	1000 ppm STEL
Isopropyl Alcohol CAS # 67-63-0	200 ppm TWA; 400 ppm STEL; Potential for cutaneous absorption
Hydrogen Peroxide CAS # 7722-84-1	1 ppm TWA; 1.5 mg/m ³ TWA; 2 ppm STEL; 3 mg/m ³ STEL

IOELVs

None established

Section 8 Exposure Controls and Personal Protection (Continued)

NIOSH

Ethyl Alcohol CAS # 64-17-5	3300 ppm IDLH (10% LEL); 1000 ppm TWA; 1900 mg/m ³ TWA
Isopropyl Alcohol CAS # 67-63-0	2000 ppm IDLH (10% LEL); 500 ppm STEL; 1225 mg/m ³ STEL; 400 ppm TWA; 980 mg/m ³ TWA
Hydrogen Peroxide CAS # 7722-84-1	75 ppm IDLH; 1 ppm TWA; 1.4 mg/m ³ TWA

Japan

None established

8.2 Exposure controls

Engineering Controls

No special engineering controls are required. Use with good general ventilation.

Eye Protection

Safety glasses or chemical goggles should be worn to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.

Skin Protection

Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact. Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards.

Respiratory Protection

Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid	Specific Gravity (Water=1.0)	0.9 @20°C
Color	Colorless	Solubility	
Transparency	Clear	Water	Soluble
Odor	Alcohol odor	Organic	Not determined
pH	Not determined	Partition coefficient: n-octanol/water	Not determined
Freezing Point	Not determined	Auto-ignition Temp.	Not determined
Boiling Point	Not determined	Decomposition Temperature	Not determined
Flash Point	15.5°C (59.9°F)	Percent Volatiles	Not determined
Evaporation Rate	Not determined	Vapor Pressure	Not determined
Flammability (Solid, Gas)	Not applicable	Viscosity	Not determined
Flammability Limits	Not determined	Explosive Properties	Not applicable

Section 9 Physical and Chemical Properties (Continued)

Vapor Density	Not determined	Oxidizing Properties	Not applicable
Odor Threshold	Ethyl Alcohol 180 ppm geometric mean air odor threshold = (detectable); 100 ppm geometric mean air odor threshold = (recognizable) Isopropyl Alcohol 43 ppm geometric mean air odor threshold = (detectable); 19 ppm geometric mean air odor threshold = (recognizable)		
9.2 Other Information	No further relevant information available.		

Section 10 Stability and Reactivity

10.1 Reactivity	No further relevant information available.
10.2 Chemical Stability	The product is stable in accordance with recommended storage conditions.
10.3 Possibility of hazardous reactions	Avoid exposure to heat and incompatible materials.
10.4 Conditions to Avoid	To maintain product performance keep away from strong acids, strong bases, strong oxidizers. Avoid exposure to heat and direct sunlight.
10.5 Incompatible materials	Oxidizing agents
10.6 Hazardous Decomposition Products	When stored as labeled, no known hazardous decomposition products are formed during the shelf-life of this product.

Section 11 Toxicological Information

11.1 Information on toxicological effects

Toxicity Data for Hazardous Ingredients

Ethyl Alcohol CAS # 64-17-5	Oral LD50 Rat 7060 mg/kg; Inhalation LC50 Rat 124.7 mg/L 4 h
Isopropyl Alcohol CAS # 67-63-0	Inhalation LC50 Rat 72.6 mg/L 4 h; Oral LD50 Rat 4396 mg/kg; Dermal LD50 Rat 12800 mg/kg; Dermal LD50 Rabbit 12870 mg/kg
Hydrogen Peroxide CAS # 7722-84-1	Inhalation LC50 Rat 2 mg/L 4 h; Oral LD50 Rat 801 mg/kg; Dermal LD50 Rat 4060 mg/kg; Dermal LD50 Rabbit 2000 mg/kg

Primary Routes of Exposure Eye contact, ingestion, inhalation, and skin contact.

Skin Corrosion/Irritation Causes skin irritation.

Serious eye damage/eye irritation Causes serious eye damage.

Respiratory/skin sensitization No data available.

Carcinogenicity No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.

Germ cell mutagenicity No data available.

Section 11 Toxicological Information (Continued)

Reproductive Toxicity	No data available.
Specific target organ toxicity – single exposure	No data available.
Specific target organ toxicity – repeated exposure	No data available.
Aspiration hazard	No data available.
Other Information	May be harmful if swallowed

Section 12 Ecological Information

12.1 Ecotoxicity

Fresh Water Species

Ethyl Alcohol
CAS # 64-17-5

96 h LC50 *Oncorhynchus mykiss*: 12.0 - 16.0 mL/L [static]; 96 h LC50 *Pimephales promelas*: >100 mg/L [static]; 96 h LC50 *Pimephales promelas*: 13400 - 15100 mg/L [flow-through]

Isopropyl Alcohol
CAS # 67-63-0

96 h LC50 *Pimephales promelas*: 9640 mg/L [flow-through]; 96 h LC50 *Pimephales promelas*: 11130 mg/L [static]; 96 h LC50 *Lepomis macrochirus*: >1400000 µg/L

Hydrogen Peroxide
CAS # 7722-84-1

96 h LC50 *Pimephales promelas*: 16.4 mg/L; 96 h LC50 *Lepomis macrochirus*: 18-56 mg/L [static]; 96 h LC50 *Oncorhynchus mykiss*: 10.0-32.0 mg/L [static]

Microtox

No information available.

Water Flea

Ethyl Alcohol
CAS # 64-17-5

48 h LC50 *Daphnia magna*: 9268 - 14221 mg/L; 24 h EC50 *Daphnia magna*: 10800 mg/L; 48 h EC50 *Daphnia magna*: 2 mg/L [Static]

Isopropyl Alcohol
CAS # 67-63-0

48 h EC50 *Daphnia magna*: 13299 mg/L

Hydrogen Peroxide
CAS # 7722-84-1

24 h EC50 *Daphnia magna*: 7.7 mg/L; 48 h EC50 *Daphnia magna*: 18 - 32 mg/L [Static]

Fresh Water Algae

Isopropyl Alcohol
CAS # 67-63-0

96 h EC50 *Desmodesmus subspicatus*: >1000 mg/L; 72 h EC50 *Desmodesmus subspicatus*: >1000 mg/L

12.2 Persistence and degradability Not determined for the product.

12.3 Bioaccumulation Not determined for the product.

12.4 Mobility in soil Not determined for the product.

Section 12 Ecological Information (Continued)

12.5 Results of PBT and vPvB assessment

Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

12.6 Other Adverse Effects

No further relevant information available.

Section 13 Disposal Considerations

13.1 Waste treatment methods

Product Waste Disposal

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

Package disposal

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

13.2 Additional information

Suggested European waste catalogue 18 01 06* - chemicals consisting of or containing dangerous substances. Dispose in accordance with national, state and local waste regulations.

Section 14 Transport Information

Shipping Information	IATA	IMDG	US DOT	European ADR	Canadian TDG
14.1 UN/ID Number	1987	1987	1987	1987	PIN - 1987
14.2 Shipping Name	Alcohols, n.o.s. (Ethanol, Isopropanol solution)				
14.3 Hazard Class	3 Flammable Liquids	3 Flammable liquids	3 Flammable liquid	3 Flammable Liquids	3 Flammable Liquids
Subsidiary Risk	None	None	None	None	None
Classification Code	Not applicable	Not applicable	Not applicable	F1	Not applicable
14.4 Packing Group	II	II	II	II	II
Special Provisions	A3	274	172	274	16
Additional information					
IATA ERG Code	3L	Not applicable	Not applicable	Not applicable	Not applicable
EmS	Not applicable	F-E, S-D	Not applicable	Not applicable	Not applicable
NAERG Code	Not applicable	Not applicable	127	Not applicable	127
14.5 Environmental Hazards					
Marine Pollutant	Not applicable	No	Not applicable	Not applicable	Not applicable

Section 14 Transport Information (Continued)

Shipping Information	IATA	IMDG	US DOT	European ADR	Canadian TDG
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14.6 Special Precautions for user

Warning: Flammable liquid.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

Section 15 Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

US Federal and State Regulations

SARA 313 Isopropyl Alcohol is subject to reporting requirements of Section 313, Title III of SARA. 1.0 % de minimis concentration

California Proposition 65 No ingredients listed.

Massachusetts MSL Ethyl Alcohol is listed.
Isopropyl Alcohol is listed.
Hydrogen Peroxide is listed.

New Jersey Dept. of Health RTK List

Ethyl Alcohol is listed.
Isopropyl Alcohol is listed.
Hydrogen Peroxide is listed.

Pennsylvania RTK

Ethyl Alcohol is listed.
Isopropyl Alcohol is listed.
Hydrogen Peroxide is listed.

EU Regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

Water Hazard Class (Germany) WGK 1, low water endangering

REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.

No ingredients listed.

According to EC Directives (1999/45/EC and 67/548 EEC)

Highly flammable

F



Risk and Safety Phrases

R11 Highly flammable.

S16 Keep away from sources of ignition - No smoking.

S7 Keep container tightly closed.

Canada

This product is exempt from WHMIS label and SDS requirements.

PIN

1987

Section 15 Regulatory Information (Continued)

Ingredients on Ingredient Disclosure List

Ethyl Alcohol
Isopropyl Alcohol
Hydrogen Peroxide

Ingredients with unknown toxicological properties

Product is exempt

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.

Section 16 Other Information

Beckman Coulter Safety Rating	Flammability: 3 Health: 2 Reactivity with Water: 1 Contact: 2	Code 0=None 1=Slight 2=Caution 3=Severe
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Revision Changes

Updated to GHS.

Hazard Class, hazard statements and risk phrase description from section 3

C - Corrosive
 F - Highly flammable
 O - Oxidising
 Xi - Irritant
 R11 Highly flammable.
 R35 Causes severe burns.
 R20/22 Harmful by inhalation and if swallowed.
 R36 Irritating to eyes.
 R67 Vapours may cause drowsiness and dizziness.
 R5 Heating may cause an explosion.
 R8 Contact with combustible material may cause fire.
 Acute Tox. Inhal. 4 - Acute Toxicity Inhalation, Category 4
 Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4
 Eye Dam. 1 - Eye Damage Category 1
 Eye Irrit. 2 - Eye Irritation Category 2
 Flam. Liq. 2 - Flammable Liquids, Category 2
 Ox. Liq. 1 - Oxidizing Liquids Category 1
 Skin Corr. 1A - Skin Corrosion Category 1A
 STOT SE 3 - Specific Target Organ Toxicity Single Exposure Category 3
 STOT SE 3 - Specific Target Organ Toxicity Single Exposure Category 3
 H225 - Highly flammable liquid and vapour.
 H271 - May cause fire or explosion; strong oxidiser.
 H302 - Harmful if swallowed.
 H314 - Causes severe skin burns and eye damage.
 H318 - Causes serious eye damage.

Section 16 Other Information (Continued)

Abbreviations and Acronyms

H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H335 - May cause respiratory irritation.
H336 - May cause drowsiness or dizziness.
ACGIH - American Conference of Governmental Industrial Hygienists
ADR - European Agreement Concerning The International Carriage Of Dangerous Goods By Road
CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act
CLP - Classification, Labeling and Packaging
DFGMAK - Republic Germany's maximum exposure limit
GHS - Globally Harmonized System
HCS - Hazard Communication Standard
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
ICAO - International Civil Aviation Organization
IMDG - International Maritime Dangerous Goods
IOELVs - European Unions' Indicative Occupational Exposure Limit Values
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
PBT - Persistent bioaccumulative and toxic substances
SARA - Superfund Amendments and Reauthorization Act
TDG - Canadian Transportation Of Dangerous Goods Regulations.
UN GHS - United Nations Globally Harmonized System
US DOT - United States Department of Transportation
WHMIS - Workplace Hazardous Material Information System
vPvB - Very persistent and very bioaccumulative substances
LC50 - Lethal Concentration, 50%
LD50 - Lethal Dose, 50%

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MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

PRODUCT NAME: **Instant Hand Sanitizer**

PRODUCT USE: ALCOHOL-BASED HAND SANITIZER WITH MOISTURIZERS

MANUFACTURED BY:
KUTOL PRODUCTS COMPANY
7650 CAMARGO ROAD
CINCINNATI, OH 45243

24 HR. EMERGENCY TELEPHONE NUMBER: 800-424-9300
TELEPHONE NUMBER FOR INFORMATION: 513-527-5500

DATE PREPARED: 6/20/05

SECTION 2 – HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

<u>HAZARDOUS CHEMICAL IDENTITY</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OTHER LIMITS RECOMMENDED</u>	<u>% (OPTIONAL)</u>
ETHYL ALCOHOL (ETHANOL)	64-17-5	1000 ppm	1000 ppm	OSHA-TWA 1000 ppm	

SECTION 3 – PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 176°F
VAPOR PRESSURE (mm Hg): 40
VAPOR DENSITY (AIR = 1): >1
SOLUBILITY IN WATER: COMPLETE

SPECIFIC GRAVITY (H₂O = 1): .886
MELTING POINT: N/A
EVAPORATION RATE (BUTYL ACETATE = 1): >1
APPEARANCE AND ODOR: CLEAR COLOR,
ALCOHOL ODOR

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED): 70 F+
(TCC)

LEL: 3.3%

EXTINGUISHING MEDIA: CO₂ OR DRY CHEMICAL

FLAMMABLE LIMITS: N/A

UEL: 19%

SPECIAL FIRE FIGHTING PROCEDURES: APPROVED RESPIRATORS
SHOULD BE WORN. WATER SPRAY TO COOL EQUIPMENT.
NFPA CODE: BLUE-1, RED-3, YELLOW-0

UNUSUAL FIRE AND EXPLOSION HAZARDS:

IF HEATED, VAPOR MAY BE FLAMMABLE. CAN REACT VIGOROUSLY WITH OXIDIZING MATERIALS.

SECTION 5 – REACTIVITY DATA

CHEMICAL STABILITY: STABLE UNSTABLE HAZARDOUS DECOMPOSITION OF BY-PRODUCTS: CO₂ MAY BE FORMED
CONDITIONS TO AVOID: OPEN FLAMES, SPARKS, OXIDIZING AGENTS DURING COMBUSTION.

INCOMPATIBILITY (MATERIALS TO AVOID): OXIDIZING AGENTS

HAZARDOUS DEPOLYMERIZATION: MAY OCCUR WILL NOT OCCUR
CONDITIONS TO AVOID: NONE

SECTION 6 – HEALTH HAZARD DATA

ROUTES OF ENTRY: INHALATION: YES NO SKIN: YES NO INGESTION: YES NO EYES: YES NO

HEALTH HAZARDS (ACUTE AND CHRONIC): NONE

CARCINOGENICITY: YES NO NTP: YES NO IARC MONOGRAPHS: YES NO OSHA REGULATED: YES NO

SIGNS AND SYMPTOMS OF EXPOSURE: MILD EYE IRRITATION

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NO MEDICAL CONDITIONS ARE KNOWN TO BE AGGRAVATED BY THIS PRODUCT.

EMERGENCY AND FIRST AID PROCEDURES:

INGESTION: DO NOT INDUCE VOMITING. CONSULT PHYSICIAN.

EYES: FLUSH WITH WATER FOR 15 MINUTES. CONSULT PHYSICIAN.

SECTION 7 – PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE ALL SOURCES OF IGNITION. FLUSH WITH WATER.

WASTE DISPOSAL METHOD: LANDFILL WITHIN ALL LOCAL, STATE AND FEDERAL LAWS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: AVOID HEAT, MAY BUILD PRESSURE, VAPOR MAY BE FLAMMABLE.

OTHER PRECAUTIONS: KEEP AWAY FROM IGNITION SOURCES.

SECTION 8 – CONTROL MEASURES

RESPIRATORY PROTECTION (SPECIFY TYPE): NONE

VENTILATION:

LOCAL EXHAUST: NONE

MECHANICAL: NONE

PROTECTIVE GLOVES: NONE EYE PROTECTION: YES

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: NONE

WORK/HYGENIC PRACTICES: NORMAL CLEANLINESS

SPECIAL: NONE

OTHER: NONE

Material Safety Data Sheet



Section 1: PRODUCT AND COMPANY IDENTIFICATION

Vi-Jon Incorporated
8515 Page Avenue
Saint Louis, MO 63114

Phone: 314-427-1000
In Case of Spill Emergency Contact:
Chemtrec: 1-800-424-9300

Product Name: Isopropyl Rubbing Alcohol 70%

Product Code: 810

Product Use: Various

Issue Date: 05/05/2008

Supersedes Date: None

Section 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Keep out of reach of children.

Appearance/Odor: A clear, colorless, mobile liquid with a characteristic odor.

WARNING:

Flammable (isopropyl alcohol)

Target (isopropyl alcohol) respiratory system, skin, eyes, CNS, liver, blood and reproductive system.

Potential Health Effects: See Section 11 for more information.

Symptoms of Exposure:

Inhalation: May cause irritation of the respiratory tract.

Ingestion: May cause nausea, vomiting and diarrhea.

Eyes: May cause irritation to the eyes.

Skin: May cause irritation to the skin.

This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

This material contains a component that is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Potential Environmental Effects: See Section 12 for more information.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS#	% by Wt.
Isopropyl Alcohol	67-63-0	70%

Section 4: FIRST AID MEASURES

Emergency first aid procedures by route of exposure:

- Inhalation:** If symptoms are experienced, remove source of contamination or move victim to fresh air. If affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion:** Do not induce vomiting. If the material is swallowed, get medical attention or advice.
- Skin:** If irritation is experienced, flush with water. If irritation persists, get medical attention.
- Eyes:** Immediately flush eyes with water for at least 15 minutes while holding eyelids open. If symptoms persist, get medical attention.

Section 5: FIRE FIGHTING MEASURES

Flash Point: 70°F

Auto Ignition: (Isopropyl Alcohol) 399°C

Flammability Classification: Flammable Liquid IB

Extinguishing Media: Use methods appropriate for the surrounding fire. Consider water spray or fog, carbon dioxide, dry chemical powder, or alcohol resistant foam.

Products of Combustion: Upon decomposition this product may emit carbon dioxide, carbon monoxide and/or low molecular weight hydrocarbons.

Fire Fighting Equipment/Instructions: Wear protective clothing and equipment suitable for the surrounding fire, including helmet, facemask, and self contained breathing apparatus.

NFPA Rating: Health:1 Fire: 3 Reactivity:0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Section 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: For large spills wear gloves, safety glasses and when levels exceed OSHA PEL use appropriate NIOSH approved respiratory protection. Keep unnecessary personnel away. Eliminate all sources of ignition or flammables that may come into contact with a spill of this material.

Environmental Precautions: Prevent discharge to open waters.

Method for Containment: Absorb spilled liquid in suitable non-flammable inert material such as clay, vermiculite or diatomaceous earth.

Methods for Clean-Up: Ventilate area of leak or spill. Use spark-proof tools to sweep or scrape up and containerize in approved chemical waste container. Wash spill area with water.

Section 7: HANDLING AND STORAGE

Handling: Keep away from heat, sparks and flame. Prevent contact with eyes. Avoid inhalation.

Storage: Keep the container tightly closed and in a cool, well ventilated place.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Isopropyl Alcohol (67-63-0)

ACGIH: 200 ppm TWA

OSHA: 400 ppm TWA; 980 mg/m³ TWA

Engineering Controls: Normal room ventilation is usually adequate under normal use.

Personal Protective Equipment (PPE)

Eye/Face Protection: None needed under normal use.

Skin Protection: None needed under normal use.

Respiratory Protection: None needed under normal use.

General Hygiene Considerations: None needed under normal use.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Color: Clear, colorless, mobile liquid

Odor: Isopropyl alcohol

Physical State: Liquid

pH: Not Available.

Vapor Density: (Isopropyl Alcohol) 2.07 (air = 1)

Boiling Point: (Isopropyl Alcohol) 82.5°C [DIN 43171]

Vapor Pressure: (Isopropyl Alcohol) 42 hPa at 20°C

Melting Point: (Isopropyl Alcohol) -90°C

Freezing Point: Not Available

Flash Point (see section 5)

Flammability Properties (see section 5)

Solubility (in water): Soluble

Specific Gravity @ 25°C: 0.876-0.881

Evaporation Rate: Not Available

Octanol/Water partition coefficient (K_{ow}): (Isopropyl Alcohol): 0.05 at 25°C

Auto-ignition temperature: (Isopropyl Alcohol) 399°C

Decomposition temperature: Not Available

Section 10: STABILITY AND REACTIVITY

Stability: Stable under normal ambient temperatures 70°C (21°C).

Condition to Avoid: Avoid excessive heat or sources of ignition.

Incompatible Materials: This product reacts with strong acid, strong bases, and oxidizing agents.

Hazardous Decomposition: Upon decomposition, this product evolves carbon monoxide, carbon dioxide, and/or low weight hydrocarbons.

Hazardous Reactions: Hazardous polymerization will not occur.

Section 11: TOXICOLOGY INFORMATION

ACUTE EFFECTS:**A: General Product information**

Product contains isopropyl alcohol.

B: Component Analysis LD50

Isopropyl Alcohol (67-63-0)

Inhalation LC50 Rat: 72.6 mg/L/4H

Oral LD50 Rat: 4396 mg/kg

Dermal LD50 Rat: 12800 mg/kg

Dermal LD50 Rabbit: 12870 mg/kg

CHRONIC EFFECTS:**Component**

Isopropyl Alcohol (67-63-0)

Carcinogenicity: ACGIH A4 – Not Classifiable as a Human Carcinogen

Neurotoxicity: This product contains isopropyl alcohol, a central nervous system target.

Mutagenicity: No information available for product.

Reproductive: No information available for product.

Developmental: This product contains isopropyl alcohol, a developmental hazard.

Target Organs: skin, eyes, CNS, Kidney, Developmental and respiratory system.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Isopropyl Alcohol (67-63-0)

96 Hr EC50 Scenedesmus Subspicatus: >1000 mg/L

72 Hr EC50 Scenedesmus subspicatus:>1000 mg/L

96 Hr LC50 Pimephales promelas: 9640 mg/L [flow through]

96 Hr LC50 Pimephales promelas: 94900 mg/L [flow through] (29 days old)

96 Hr LC50 Pimephales promelas: 61200 mg/L [flow through] (31 days old)

5 min EC50 Photobacterium phosphoreum: 35390 mg/L

48 Hr EC50 Daphnia magna: 13299 mg/L

Section 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state, and local regulations.

Section 14: TRANSPORTATION INFORMATION

Shipping Name: Consumer Commodity ORM-D

Proper Shipping Name for Non-Consumer Commodity: Isopropanol, 3, UN1219, PGII.

Section 15: REGULATORY INFORMATION

Isopropyl alcohol, a component of this product, is on the TSCA inventory.

The following components appear on one or more of the following state hazardous substance lists:

Component	CAS#	CA	MA	MN	NJ	PA
Isopropyl Alcohol	67-63-0	YES	YES	YES	YES	YES

Section 16: Other Information

Prepared by: Vi-Jon Inc.

Disclaimer:

The information and recommendations contained in the Material Safety Data Sheet (MSDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein are presented in good faith and believed to be correct as of this date hereof.

Vi-Jon, however, makes no representation as to the completeness or accuracy thereof, and information is supplied upon the express condition that the persons receiving the information will be required to make their own determination as to its suitability for their purposes prior to use. In no event will Vi-Jon be responsible for any damages of any nature whatsoever resulting from the use of, reliance upon, or the misuse of this information. User assumes all risk of use, storage and handling of the product in compliance with applicable federal, state and local laws and regulations.

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This information relates to the material designated and may not be valid for such material used in combination with any other materials nor in any process.

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product code 900412, 980412
Product name Para-Pak® 10% Formalin and Para-Pak® ULTRA 10% Formalin - CS9004
Contains Formaldehyde, Methyl alcohol

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Fixative

1.3 Details of the supplier of the safety data sheet

Manufacturer
Meridian Bioscience, Inc.
3471 River Hills Drive
Cincinnati, Ohio 45244
(800) 343-3858

Authorized Representative
Meridian Bioscience Europe
Via del' Industria 7
20020 Villa Cortese Milano, Italy

For further information, please contact:

E-mail Address www.meridianbioscience.com

1.4 Emergency telephone number

Emergency telephone Emergency telephone CHEMTREC (International) 1-703-527-3887 / For US
1-800-424-9300

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Acute oral toxicity	Category 3
Acute dermal toxicity	Category 3
Acute inhalation toxicity - gas	Category 3
Acute inhalation toxicity - dust/mist	Category 3
Skin sensitization	Category 1
Germ Cell Mutagenicity	Category 2
Carcinogenicity	Category 1B

2.2 Label elements



Signal Word

Danger

Hazard Statements

H301 - Toxic if swallowed
H311 - Toxic in contact with skin
H317 - May cause an allergic skin reaction
H331 - Toxic if inhaled
H341 - Suspected of causing genetic defects
H350 - May cause cancer

Contains Formaldehyde, Methyl alcohol

Precautionary Statements - EU (§28, 1272/2008)

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician
P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P280 - Wear eye protection/ face protection
P201 - Obtain special instructions before use
P281 - Use personal protective equipment as required
P308 + P313 - IF exposed or concerned: Get medical advice/ attention
P321 - See SDS Section 4 or Section 11 for additional medical treatment information
P322 - See SDS Section 7 for additional handling and storage measures

2.3 Other information

SECTION 3: Composition/information on ingredients

3.1 Substances

3.2 Mixtures

Chemical Name	EC-No	CAS-No	Weight %	Classification (Reg. 1272/2008)	REACH Registration Number
Formaldehyde	Present	50-00-0	4	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Muta. 2 (H341) Carc. 1B (H350)	no data available
Methyl alcohol	Present	67-56-1	1	Acute Tox. 3 (H301) Acute Tox. 3 (H311) Acute Tox. 3 (H331) STOT SE 1 (H370) Flam. Liq. 2 (H225)	no data available

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a physician immediately.
Skin contact	Wash off immediately with soap and plenty of water. Get medical attention immediately if symptoms occur.
Ingestion	Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person.
Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur.

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable Extinguishing Media

Dry chemical, CO₂, alcohol-resistant foam or water spray.

Extinguishing media which shall not be used for safety reasons

No information available.

5.2 Special hazards arising from the substance or mixture

None.

5.3 Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

See Section 12 for additional Ecological Information.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

6.4 Reference to other sections

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

Do not breathe vapors or spray mist. Ensure adequate ventilation. Avoid contact with skin and eyes. Wear personal protective equipment.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3 Specific end uses

Other Guidelines

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limits

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	European Union	The United Kingdom	France	Spain	Germany
Formaldehyde 50-00-0		STEL: 2 ppm STEL: 2.5 mg/m ³ TWA: 2 ppm TWA: 2.5 mg/m ³	TWA: 0.5 ppm STEL: 1 ppm	STEL: 0.3 ppm STEL: 0.37 mg/m ³	TWA: 0.3 ppm TWA: 0.37 mg/m ³ Ceiling / Peak: 0.6 ppm Ceiling / Peak: 0.74 mg/m ³ Skin
Methyl alcohol 67-56-1	TWA: 200 ppm TWA: 260 mg/m ³ Skin	STEL: 250 ppm STEL: 333 mg/m ³ TWA: 200 ppm TWA: 266 mg/m ³ Skin	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 1000 ppm STEL: 1300 mg/m ³	S* TWA: 200 ppm TWA: 266 mg/m ³	TWA: 200 ppm TWA: 270 mg/m ³ Ceiling / Peak: 800 ppm Ceiling / Peak: 1080 mg/m ³ Skin
Component	Italy	Portugal	The Netherlands	Finland	Denmark
Formaldehyde 50-00-0 (4)		Ceiling: 0.3 ppm	STEL: 0.5 mg/m ³ TWA: 0.15 mg/m ³	TWA: 0.3 ppm TWA: 0.37 mg/m ³ STEL: 1 ppm STEL: 1.2 mg/m ³ Ceiling: 1 ppm Ceiling: 1.2 mg/m ³	Ceiling: 0.3 ppm Ceiling: 0.4 mg/m ³
Methyl alcohol 67-56-1 (1)	TWA: 200 ppm TWA: 260 mg/m ³ Skin	STEL: 250 ppm TWA: 200 ppm TWA: 260 mg/m ³	Skin TWA: 133 mg/m ³ TWA: 100 ppm	TWA: 200 ppm TWA: 270 mg/m ³ STEL: 250 ppm STEL: 330 mg/m ³ Skin	TWA: 200 ppm TWA: 260 mg/m ³ Skin
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
Formaldehyde 50-00-0	Skin STEL 0.5 ppm STEL 0.6 mg/m ³ TWA: 0.5 ppm TWA: 0.6 mg/m ³ Ceiling 0.5 ppm Ceiling 0.6 mg/m ³	STEL: 0.6 ppm STEL: 0.74 mg/m ³ TWA: 0.3 ppm TWA: 0.37 mg/m ³	STEL: 1 mg/m ³ TWA: 0.5 mg/m ³	TWA: 0.5 ppm TWA: 0.6 mg/m ³ Ceiling: 1 ppm Ceiling: 1.2 mg/m ³ STEL: 0.5 ppm STEL: 0.6 mg/m ³	TWA: 2 ppm TWA: 2.5 mg/m ³ STEL: 2 ppm STEL: 2.5 mg/m ³
Methyl alcohol 67-56-1	Skin STEL 800 ppm STEL 1040 mg/m ³ TWA: 200 ppm	Skin STEL: 800 ppm STEL: 1040 mg/m ³ TWA: 200 ppm	STEL: 300 mg/m ³ TWA: 100 mg/m ³	TWA: 100 ppm TWA: 130 mg/m ³ Skin STEL: 150 ppm	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 600 ppm STEL: 780 mg/m ³

	TWA: 260 mg/m ³	TWA: 260 mg/m ³	STEL: 162.5 mg/m ³	Skin
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Derived No Effect Level (DNEL) No information available

Predicted No Effect Concentration (PNEC) No information available

8.2 Exposure controls

Engineering Measures Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye Protection Tightly fitting safety goggles.
Hand Protection Protective gloves.
Skin and body protection Wear impervious gloves and/or clothing if needed to prevent contact with the material.
Respiratory protection When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

Hygiene measures Handle in accordance with good industrial hygiene and safety practice.

Environmental Exposure Controls No information available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid	Odor	Pungent
Appearance	No information available	Odor Threshold	No information available
Color	colorless		

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
pH	7.00 (6.80 to 7.20)	No information available
Melting/freezing point		No information available
Boiling point/boiling range	99 °C / 210 °F	No information available
Flash Point	> 105 °C / > 221 °F	No information available
Evaporation rate		No information available
Flammability (solid, gas)		No information available
Flammability Limits in Air		No information available
upper flammability limit		
lower flammability limit		
Vapor pressure		No information available
Vapor density		No information available
Specific Gravity		No information available
Water solubility		Soluble in water
Solubility in other solvents VALUE		No information available
Partition coefficient: n-octanol/water		No information available
Autoignition temperature		No information available
Decomposition temperature		No information available
Viscosity, kinematic		No information available
Viscosity, dynamic		No information available
Explosive properties	No information available	
Oxidizing Properties	No information available	

9.2 Other information

Softening point	No information available
Molecular Weight	No information available
VOC Content(%)	No information available
Density VALUE	No information available
Bulk Density VALUE	No information available

SECTION 10: Stability and reactivity

10.1 Reactivity

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

10.4 Conditions to Avoid

Extremes of temperature and direct sunlight.

10.5 Incompatible Materials

Strong bases. Oxidizing agents.

10.6 Hazardous Decomposition Products

None under normal use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product Information Product does not present an acute toxicity hazard based on known or supplied information.

Inhalation There is no data available for this product.

Eye contact There is no data available for this product.

Skin contact There is no data available for this product.

Ingestion There is no data available for this product.

Acute toxicity 95% of the mixture consists of ingredient(s) of unknown toxicity.

The following values are calculated based on chapter 3.1 of the GHS document:

Oral	100.00 mg/kg
Dermal	300.00 mg/kg
Inhalation	
Gas	500.05 mg/l
Mist	0.50 mg/l
Vapor	588.45 mg/l

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Formaldehyde	100 mg/kg (Rat)	270 mg/kg (Rabbit)	0.578 mg/L (Rat) 4 h
Methyl alcohol	6200 mg/kg (Rat)	15800 mg/kg (Rabbit)	22500 ppm (Rat) 8 h 64000 ppm (Rat) 4 h

Skin corrosion/irritation No information available.

Eye damage/irritation No information available.

Sensitization No information available.

Germ Cell Mutagenicity No information available.

Carcinogenicity No information available.

Chemical Name	European Union
Formaldehyde	Carc. 1B

Reproductive toxicity	No information available.
Specific target organ systemic toxicity (single exposure)	No information available.
Specific target organ systemic toxicity (repeated exposure)	No information available.
Aspiration hazard	No information available.

SECTION 12: Ecological information

12.1 Toxicity

Ecotoxicity effects	Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants
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Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Formaldehyde		22.6 - 25.7: 96 h Pimephales promelas mg/L LC50 flow-through 1510: 96 h Lepomis macrochirus µg/L LC50 static 41: 96 h Brachydanio rerio mg/L LC50 static 0.032 - 0.226: 96 h Oncorhynchus mykiss mL/L LC50 flow-through 100 - 136: 96 h Oncorhynchus mykiss mg/L LC50 static 23.2 - 29.7: 96 h Pimephales promelas mg/L LC50 static	2: 48 h Daphnia magna mg/L LC50 11.3 - 18: 48 h Daphnia magna mg/L EC50 Static
Methyl alcohol		28200: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Pimephales promelas mg/L LC50 static 19500 - 20700: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 18 - 20: 96 h Oncorhynchus mykiss mL/L LC50 static 13500 - 17600: 96 h Lepomis macrochirus mg/L LC50 flow-through	

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

Chemical Name	log Pow
Formaldehyde	0.35
Methyl alcohol	-0.77

12.4 Mobility in soil

Mobility

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Other adverse effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste from residues / unused products Dispose of waste in accordance with all federal, state, and local regulations.

Contaminated packaging Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

IATA/DOT Not regulated

14.1.
14.2.
14.3.
14.4.
14.5.
14.6.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Chemical Name	French RG number
Formaldehyde	RG 43
Methyl alcohol	RG 84

International Inventories

TSCA Complies
EINECS/ELINCS -
DSL/NDSL -
PICCS -
ENCS -
IECSC -
AICS -
KECL -

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
AICS - Australian Inventory of Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances

15.2 Chemical Safety Report

No information available

SECTION 16: Other information

Full text of H-Statements referred to under sections 2 and 3

H301 - Toxic if swallowed
H311 - Toxic in contact with skin
H331 - Toxic if inhaled
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H341 - Suspected of causing genetic defects if inhaled
H350 - May cause cancer if swallowed
H370 - Causes damage to organs (a,b,c) if inhaled
H225 - Highly flammable liquid and vapor
H301 - Toxic if swallowed
H311 - Toxic in contact with skin
H317 - May cause an allergic skin reaction
H331 - Toxic if inhaled
H341 - Suspected of causing genetic defects
H350 - May cause cancer

Issuing date 06-Apr-2016

Revision Date 06-Apr-2016

Revision Note not applicable.

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Disclaimer

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Meridian Bioscience, Inc. shall not be held liable for any damages resulting from handling or from contact with the above product.



SAFETY DATA SHEET (SDS)

407 New Sanford Road
La Vergne, TN 37086

SECTION 1: PRODUCT IDENTIFICATION

PRODUCT: Alcohol Prep Pads
Product Label Name: Alcohol Prep Pads (private label included)
Company Name and Address: NDC, Inc.
407 New Sanford Road
LaVergne, TN 37086
Emergency Telephone Number: 631-656-3800

Recommended use:

SECTION 2: HAZARDOUS INGREDIENTS

Hazardous Components	OSHA PEL	ACGIH TLV	Other	%
(optional) (Specific Chemical Identity Common Name(s))				
Isopropanol:	(CAS No. 67-63-0)	400ppm	400ppm	
N/A	70% NFPA	Health = 1	Flammability = 3	Reactivity = 0

SECTION 3: INFORMATION ON INGREDIENTS

Chemical name and Synonyms: Isopropyl Alcohol

Chemical Formula: CH₃CHOHCH₃

SECTION 4: FIRST-AID MEASURES

Route(s) of Entry:

Inhalation?	None Known
Skin?	Topically Applied
Eyes?	Will sting if splashed in eyes
Ingestion?	None

Health Hazards (Acute and Chronic):

Inhalation	None
Skin Contact	If rash or irritation develops, discontinue use.
Eye Contact	Rinse with cool water.
Ingestion	If ingested, seek medical attention.

Carcinogenicity

NTP?	N/A
LARC Monograph?	N/A
OSHA Regulated?	N/A

Signs and Symptoms of Exposure: Coughing, dizziness and watery eyes

Medical Conditions Generally Aggravated by Exposure: Sensitive or inflamed skin may become irritated.

Emergency and First Aid Procedures: If large quantities are ingested, administer warm water and contact physician. With eye contact, flush with water. If irritation persists, contact physician.

SECTION 5: FIRE-FIGHTING MEASURES

Flash Point (Method Used):	68.5° F TOC
Flammable Limits:	750 F
LEL:	2%
UEL:	12%
Extinguishing Media:	Alcohol Resistant Foam, CO2, or Dry Chemical Handle as a Flammable
Special Fire Fighting Procedures:	Liquid
Unusual Fire and Explosion Hazards:	Respiratory Protection Required for Firefighting Personnel

SECTION 6: ACCIDENTAL RELEASE MEASURES

Eliminate all sources of ignition and flush with large quantities of water spray
Disposal should be in accordance with local, state/provincial and Federal regulations.

SECTION 7: HANDLING AND STORAGE

None

SECTION 8: EXPOSURE CONTROLS

Respiratory Protection (Specific Type): N/A

Ventilation

Local Exhaust:	None
Mechanical (General):	None
Special:	N/A
Other:	N/A
Protective Gloves:	N/A
Eye protection:	Goggles; Use eye bath if eye contact occurs.
Other Protective Clothing or Equipment:	N/A

Work / Hygiene Practices: Good hygienic practice

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Individually sealed Alcohol Prep Packet
Boiling Point:	80.2 deg C
Vapor Pressure (mm Hg):	33mmHG @ 20 Deg C

OSHA Standard Format

Vapor Density:	2.1
Specific Gravity:	0.8405
Melting Point:	-31.5 deg C
Evaporation Rate (Butyl Acetate=1):	N/A
Solubility in Water:	Pad is not soluble in water
Appearance and Odor:	White Non Woven cloth saturated with Alcohol Solution, mild alcohol odor

SECTION 10: STABILITY AND REACTIVITY

Stability: Stable

Incompatibility (Materials to Avoid): None Known

Hazardous Decomposition or Byproducts: None Known

Hazardous Polymerization: Will Not Occur

SECTION 11: TOXICOLOGICAL INFORMATION

None

SECTION 12: ECOLOGICAL INFORMATION

None

SECTION 13: DISPOSABLE INFORMATION

None

SECTION 14: TRANSPORTATION INFORMATION

None

SECTION 15: REGULATORY INFORMATION

None

SECTION 16: OTHER INFORMATION

Prepared By: Kara Mckigney

Issue Date: 6-16-14

Revision Date: 6-16-14

Disclaimer:

The information provided in this SDS is correct and is to the best of our knowledge, at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

1. IDENTIFICATION

Product identifier

Product Name Pure Bright Germicidal Ultra Bleach

Other means of identification

Product UPC 59647-21014

Product Code 11008635041

Recommended use of the chemical and restrictions on use

Recommended Use Disinfectant. Cleaning agent. Chlorine-based bleaching agents.

Uses advised against Do not mix with other chemicals

Details of the supplier of the safety data sheet

Manufacturer Address

KIK International LLC
33 Macintosh Blvd.
Concord, Ontario
Canada L4K 4L5
1-800-479-6603

Emergency telephone number

Emergency Telephone Poison Control Center (Medical) : (866) 366-5048
Chemtel (Transportation) 1-888-255-3924

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1

Label elements

Emergency Overview

Danger

Hazard statements

Causes skin irritation
Causes serious eye damage



Color light yellow

Physical state liquid

Odor Chlorine

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Immediately call a POISON CENTER or doctor/physician

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Precautionary Statements - Storage

Keep out of reach of children. Store in a well-ventilated place. Store in a closed container. Protect from sunlight.

Hazards not otherwise classified (HNOC)

Not applicable

Other Information

0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS**Mixture**

Chemical Name	CAS No.	Weight-%
Sodium hypochlorite	7681-52-9	6

4. FIRST AID MEASURES**Description of first aid measures**

Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes.
Skin contact	Wash skin with soap and water. If symptoms persist, call a physician.
Inhalation	Remove to fresh air.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

Symptoms No information available.

Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically. Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media No information available.

Specific hazards arising from the chemical

No information available.

Explosion data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Ensure adequate ventilation, especially in confined areas.

Environmental precautions

Environmental precautions See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible materials Acids, Ammonia.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies. .

Appropriate engineering controls

Engineering Controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing.

Respiratory protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	liquid	Odor	Chlorine
Appearance	clear, light yellow	Odor threshold	No information available
Color	light yellow		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	12.0 - 12.5	
Melting point/freezing point	No information available	
Boiling point / boiling range	No information available	
Flash point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific Gravity	~1.08	
Water solubility	Soluble in water	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Density	No information available	
Bulk density	No information available	
Explosive properties	No information available	
Oxidizing properties	No information available	

Other Information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Do not mix with other chemicals. Extremes of temperature and direct sunlight.

Incompatible materials

Acids, Ammonia.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation Inhalation of vapors in high concentration may cause irritation of respiratory system.

Eye contact Avoid contact with eyes. May cause burns.

Skin contact Avoid contact with skin. May cause irritation.

Ingestion May be harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium hypochlorite 7681-52-9	= 8200 mg/kg (Rat)	> 10000 mg/kg (Rabbit)	-

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.
Germ cell mutagenicity No information available.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Sodium hypochlorite 7681-52-9	-	Group 3	-	-

*IARC (International Agency for Research on Cancer)
 Not classifiable as a human carcinogen*

Reproductive toxicity No information available.
STOT - single exposure No information available.
STOT - repeated exposure No information available.
Aspiration hazard No information available.

Numerical measures of toxicity - Product Information

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life with long lasting effects

0% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Sodium hypochlorite 7681-52-9	0.095: 24 h Skeletonema costatum mg/L EC50	0.06 - 0.11: 96 h Pimephales promelas mg/L LC50 flow-through 4.5 - 7.6: 96 h Pimephales promelas mg/L LC50 static 0.4 - 0.8: 96 h Lepomis macrochirus mg/L LC50 static 0.28 - 1: 96 h Lepomis macrochirus mg/L LC50 flow-through 0.05 - 0.771: 96 h Oncorhynchus mykiss mg/L LC50 flow-through 0.03 - 0.19: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 0.18 - 0.22: 96 h Oncorhynchus mykiss mg/L LC50 static	0.033 - 0.044: 48 h Daphnia magna mg/L EC50 Static 2.1: 96 h Daphnia magna mg/L EC50

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated packaging Do not reuse container. Dispose of in accordance with federal, state and local regulations.

14. TRANSPORT INFORMATION

DOT Not regulated

IATA

UN/ID no.	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM HYPOCHLORITE)
Hazard Class	9
Packing Group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM HYPOCHLORITE), 9, III

IMDG

UN/ID no.	3082
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM HYPOCHLORITE)
Hazard Class	9
Packing Group	III
Description	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (SODIUM HYPOCHLORITE), 9, III
Marine pollutant	This material meets the definition of a marine pollutant

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL/NDSL	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Acute health hazard	Yes
----------------------------	-----

Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium hypochlorite 7681-52-9	100 lb	-	-	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Sodium hypochlorite 7681-52-9	100 lb	-	RQ 100 lb final RQ RQ 45.4 kg final RQ

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Sodium hypochlorite 7681-52-9	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number 70271-13

EPA Statement

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Difference between SDS and EPA Pesticide label

DANGER: Corrosive. May cause severe skin and eye irritation or chemical burns to broken skin. Causes eye damage. Wear safety glasses and rubber gloves when handling this product. Wash after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until strong odors have dissipated.

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA	Health hazards 2	Flammability 0	Instability 1	Physical and Chemical Properties -
HMIS	Health hazards 2	Flammability 0	Physical hazards 1	Personal protection B

Prepared By Regulatory Affairs
Revision Date 14-Apr-2015
Revision Note No information available

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet

PURELL® Instant Hand Sanitizer Gel VF481™

Version 1.2 Revision Date: 02/11/2015 MSDS Number: 46679-00003 Date of last issue: 01/16/2015
Date of first issue: 01/13/2015

SECTION 1. IDENTIFICATION

Product name : PURELL® Instant Hand Sanitizer Gel VF481™

Manufacturer or supplier's details

Company name of supplier : GOJO Industries, Inc.

Address : One GOJO Plaza, Suite 500
Akron OH 44311

Telephone : 1 (330) 255-6000

Emergency telephone : 1-800-424-9300 CHEMTREC

Recommended use of the chemical and restrictions on use

Recommended use : Hand Sanitizer

Restrictions on use : This is a personal care or cosmetic product that is safe for consumers and other users under normal and reasonably foreseeable use. Cosmetics and consumer products, specifically defined by regulations around the world, are exempt from the requirement of an SDS for the consumer. While this material is not considered hazardous, this SDS contains valuable information critical to the safe handling and proper use of the product for industrial workplace conditions as well as unusual and unintended exposures such as large spills. This SDS should be retained and available for employees and other users of this product. For specific intended-use guidance, please refer to the information provided on the package or instruction sheet.

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Flammable liquids : Category 3

Eye irritation : Category 2A

GHS Label element

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.
H319 Causes serious eye irritation.


PURELL® Instant Hand Sanitizer Gel VF481™

Version 1.2 Revision Date: 02/11/2015 MSDS Number: 46679-00003 Date of last issue: 01/16/2015
 Date of first issue: 01/13/2015

Precautionary Statements : **Prevention:**
 P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P233 Keep container tightly closed.
 P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P264 Wash skin thoroughly after handling.
 P280 Wear protective gloves/ eye protection/ face protection.
Response:
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 If eye irritation persists: Get medical advice/ attention.
Storage:
 P403 + P235 Store in a well-ventilated place. Keep cool.
Disposal:
 P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Ethanol	64-17-5	>= 50 - < 70
Propan-2-ol	67-63-0	>= 1 - < 5

SECTION 4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
 When symptoms persist or in all cases of doubt seek medical advice.

If inhaled : If inhaled, remove to fresh air.
 Get medical attention if symptoms occur.

In case of skin contact : Wash with water and soap as a precaution.
 Get medical attention if symptoms occur.

In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
 If easy to do, remove contact lens, if worn.


PURELL® Instant Hand Sanitizer Gel VF481™

Version	Revision Date:	MSDS Number:	Date of last issue: 01/16/2015
1.2	02/11/2015	46679-00003	Date of first issue: 01/13/2015

	Get medical attention.
If swallowed	: If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	: Causes serious eye irritation.
Protection of first-aiders	: First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
Notes to physician	: Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	: Water spray Alcohol-resistant foam Dry chemical Carbon dioxide (CO ₂)
Unsuitable extinguishing media	: High volume water jet
Specific hazards during fire fighting	: Do not use a solid water stream as it may scatter and spread fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion products	: Carbon oxides
Specific extinguishing methods	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
Special protective equipment for fire-fighters	: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions	: Discharge into the environment must be avoided.


PURELL® Instant Hand Sanitizer Gel VF481™

Version	Revision Date:	MSDS Number:	Date of last issue: 01/16/2015
1.2	02/11/2015	46679-00003	Date of first issue: 01/13/2015

Prevent further leakage or spillage if safe to do so.
 Prevent spreading over a wide area (e.g. by containment or oil barriers).
 Retain and dispose of contaminated wash water.
 Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Non-sparking tools should be used.
 Soak up with inert absorbent material.
 Suppress (knock down) gases/vapors/mists with a water spray jet.
 For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container.
 Clean up remaining materials from spill with suitable absorbent.
 Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
 Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use with local exhaust ventilation.
 Use only in an area equipped with explosion proof exhaust ventilation.

Advice on safe handling : Do not breathe vapors or spray mist.
 Do not swallow.
 Do not get in eyes.
 Avoid prolonged or repeated contact with skin.
 Handle in accordance with good industrial hygiene and safety practice.
 Non-sparking tools should be used.
 Keep container tightly closed.
 Keep away from heat and sources of ignition.
 Take precautionary measures against static discharges.
 Take care to prevent spills, waste and minimize release to the environment.

Conditions for safe storage : Keep in properly labeled containers.
 Keep tightly closed.
 Keep in a cool, well-ventilated place.
 Store in accordance with the particular national regulations.
 Keep away from heat and sources of ignition.

Materials to avoid : Do not store with the following product types:
 Strong oxidizing agents

PURELL® Instant Hand Sanitizer Gel VF481™

Version 1.2 Revision Date: 02/11/2015 MSDS Number: 46679-00003 Date of last issue: 01/16/2015
 Date of first issue: 01/13/2015

Organic peroxides
 Flammable solids
 Pyrophoric liquids
 Pyrophoric solids
 Self-heating substances and mixtures
 Substances and mixtures which in contact with water emit flammable gases
 Explosives
 Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol	64-17-5	TWA	1,000 ppm 1,900 mg/m ³	NIOSH REL
		TWA	1,000 ppm 1,900 mg/m ³	OSHA Z-1
		STEL	1,000 ppm	ACGIH
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
		TWA	400 ppm 980 mg/m ³	NIOSH REL
		ST	500 ppm 1,225 mg/m ³	NIOSH REL
		TWA	400 ppm 980 mg/m ³	OSHA Z-1

Biological occupational exposure limits

Ingredients	CAS-No.	Control parameters	Biological specimen	Sam- pling time	Permissible concentratio n	Basis
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work- week	40 mg/l	ACGIH BEI

Engineering measures : Minimize workplace exposure concentrations.
 Use only in an area equipped with explosion proof exhaust ventilation.
 Use with local exhaust ventilation.

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and


PURELL® Instant Hand Sanitizer Gel VF481™

Version	Revision Date:	MSDS Number:	Date of last issue: 01/16/2015
1.2	02/11/2015	46679-00003	Date of first issue: 01/13/2015

use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

- Hand protection
- Material : Impervious gloves
- Material : Flame retardant gloves
- Remarks : Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
- Eye protection : Wear the following personal protective equipment:
Safety goggles
- Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Wear the following personal protective equipment:
Flame retardant antistatic protective clothing.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
- Hygiene measures : Ensure that eye flushing systems and safety showers are located close to the working place.
When using do not eat, drink or smoke.
Wash contaminated clothing before re-use.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Color : clear, Hazy, blue green
- Odor : alcohol-like
- Odor Threshold : No data available
- pH : 3.5 - 5.2
- Melting point/freezing point : No data available
- Initial boiling point and boiling range : 75.00 °C

**PURELL® Instant Hand Sanitizer Gel VF481™**

Version	Revision Date:	MSDS Number:	Date of last issue: 01/16/2015
1.2	02/11/2015	46679-00003	Date of first issue: 01/13/2015

Flash point	:	26.5 °C
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapor pressure	:	No data available
Relative vapor density	:	No data available
Density	:	0.8850 g/cm ³
Solubility(ies)		
Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	Not applicable
Autoignition temperature	:	No data available
Decomposition temperature	:	The substance or mixture is not classified self-reactive.
Viscosity		
Viscosity, kinematic	:	80 - 600 mm ² /s (20 °C)
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	Flammable liquid and vapor. Vapors may form explosive mixture with air. Can react with strong oxidizing agents.
Conditions to avoid	:	Heat, flames and sparks.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products	:	No hazardous decomposition products are known.

**PURELL® Instant Hand Sanitizer Gel VF481™**

Version Revision Date: MSDS Number: Date of last issue: 01/16/2015
1.2 02/11/2015 46679-00003 Date of first issue: 01/13/2015

SECTION 11. TOXICOLOGICAL INFORMATION**Information on likely routes of exposure**

Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Ingredients:**Ethanol:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 124.7 mg/l
Exposure time: 4 h
Test atmosphere: vapor

Propan-2-ol:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 72.6 mg/l
Exposure time: 4 h
Test atmosphere: vapor

Acute dermal toxicity : LD50 (Rat): > 5,000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Result: No skin irritation

Ingredients:**Ethanol:**

Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

Propan-2-ol:

Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Ingredients:**Ethanol:**

Species: Rabbit
Result: Irritation to eyes, reversing within 21 days
Method: OECD Test Guideline 405


PURELL® Instant Hand Sanitizer Gel VF481™

Version	Revision Date:	MSDS Number:	Date of last issue: 01/16/2015
1.2	02/11/2015	46679-00003	Date of first issue: 01/13/2015

Propan-2-ol:

Species: Rabbit

Result: Irritation to eyes, reversing within 21 days

Respiratory or skin sensitization

Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Product:

Assessment: Does not cause skin sensitization.

Ingredients:
Ethanol:

Test Type: Local lymph node assay (LLNA)

Routes of exposure: Skin contact

Species: Mouse

Result: negative

Propan-2-ol:

Test Type: Buehler Test

Routes of exposure: Skin contact

Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

Germ cell mutagenicity

Not classified based on available information.

Ingredients:
Ethanol:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
Result: negative

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)
Species: Mouse
Application Route: Ingestion
Result: negative

Propan-2-ol:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Mouse
Application Route: Intraperitoneal injection
Result: negative

Carcinogenicity

Not classified based on available information.

Ingredients:
Propan-2-ol:

PURELL® Instant Hand Sanitizer Gel VF481™

Version 1.2	Revision Date: 02/11/2015	MSDS Number: 46679-00003	Date of last issue: 01/16/2015 Date of first issue: 01/13/2015
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Species: Rat
 Application Route: inhalation (vapor)
 Exposure time: 104 weeks
 Method: OECD Test Guideline 451
 Result: negative

IARC	No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Ingredients:**Ethanol:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study
 Species: Mouse
 Application Route: Ingestion
 Method: OECD Test Guideline 416
 Result: negative

Propan-2-ol:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
 Species: Rat
 Application Route: Ingestion
 Result: negative

Effects on fetal development : Test Type: Embryo-fetal development
 Species: Rat
 Application Route: Ingestion
 Result: negative

STOT-single exposure

Not classified based on available information.

Ingredients:**Propan-2-ol:**

Assessment: May cause drowsiness or dizziness.

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity**Ingredients:****Ethanol:**


PURELL® Instant Hand Sanitizer Gel VF481™

Version	Revision Date:	MSDS Number:	Date of last issue: 01/16/2015
1.2	02/11/2015	46679-00003	Date of first issue: 01/13/2015

Species: Rat
 NOAEL: 2,400 mg/kg
 Application Route: Ingestion
 Exposure time: 2 y

Propan-2-ol:

Species: Rat
 NOAEL: 5000 ppm
 Application Route: inhalation (vapor)
 Exposure time: 104 w
 Method: OECD Test Guideline 413

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION
Ecotoxicity
Ingredients:
Ethanol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
 Exposure time: 48 h

Toxicity to algae : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 9.6 mg/l
 Exposure time: 9 d

Toxicity to bacteria : EC50 (Photobacterium phosphoreum): 32.1 mg/l
 Exposure time: 0.25 h

Propan-2-ol:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 10,000 mg/l
 Exposure time: 24 h

Toxicity to algae : ErC50 (Scenedesmus quadricauda (Green algae)): > 1,800 mg/l
 Exposure time: 8 d

Toxicity to bacteria : EC50 (Pseudomonas putida): > 1,050 mg/l
 Exposure time: 16 h


PURELL® Instant Hand Sanitizer Gel VF481™

Version	Revision Date:	MSDS Number:	Date of last issue: 01/16/2015
1.2	02/11/2015	46679-00003	Date of first issue: 01/13/2015

Persistence and degradability
Ingredients:
Ethanol:

Biodegradability : Result: Readily biodegradable.
 Biodegradation: 84 %
 Exposure time: 20 d

Propan-2-ol:

Biodegradability : Result: rapidly degradable

Bioaccumulative potential
Ingredients:
Ethanol:

Partition coefficient: n-octanol/water : log Pow: -0.35

Propan-2-ol:

Partition coefficient: n-octanol/water : log Pow: 0.05

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS
Disposal methods

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Dispose of as unused product.
 Empty containers should be taken to an approved waste handling site for recycling or disposal.
 Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION
International Regulation
UNRTDG

UN number : UN 1987
 Proper shipping name : ALCOHOLS, N.O.S.
 (Ethanol, Propan-2-ol)
 Class : 3
 Packing group : III
 Labels : 3

IATA-DGR


PURELL® Instant Hand Sanitizer Gel VF481™

Version	Revision Date:	MSDS Number:	Date of last issue: 01/16/2015
1.2	02/11/2015	46679-00003	Date of first issue: 01/13/2015

UN/ID No. : UN 1987
 Proper shipping name : Alcohols, n.o.s.
 (Ethanol, Propan-2-ol)
 Class : 3
 Packing group : III
 Labels : Flammable Liquids
 Packing instruction (cargo aircraft) : 366
 Packing instruction (passenger aircraft) : 355

IMDG-Code

UN number : UN 1987
 Proper shipping name : ALCOHOLS, N.O.S.
 (Ethanol, Propan-2-ol)
 Class : 3
 Packing group : III
 Labels : 3
 EmS Code : F-E, S-D
 Marine pollutant : no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation
49 CFR

UN/ID/NA number : UN 1987
 Proper shipping name : ALCOHOLS, N.O.S.
 Class : 3
 Packing group : III
 Labels : FLAMMABLE LIQUID
 ERG Code : 127
 Marine pollutant : no

SECTION 15. REGULATORY INFORMATION
EPCRA - Emergency Planning and Community Right-to-Know
CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Fire Hazard
 Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

PURELL® Instant Hand Sanitizer Gel VF481™

Version 1.2 Revision Date: 02/11/2015 MSDS Number: 46679-00003 Date of last issue: 01/16/2015
 Date of first issue: 01/13/2015

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

Propan-2-ol	67-63-0	3.4086 %
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US State Regulations
Pennsylvania Right To Know

Ethanol	64-17-5	50 - 70 %
Water	7732-18-5	30 - 50 %
Propan-2-ol	67-63-0	1 - 5 %

New Jersey Right To Know

Ethanol	64-17-5	50 - 70 %
Water	7732-18-5	30 - 50 %
Propan-2-ol	67-63-0	1 - 5 %

California Prop 65

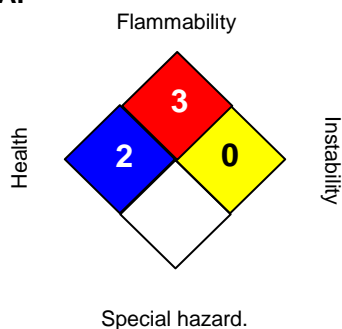
This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

AICS : All ingredients listed or exempt.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), NECSI (Taiwan), TSCA (USA)

SECTION 16. OTHER INFORMATION
Further information
NFPA:

HMIS III:

HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)


PURELL® Instant Hand Sanitizer Gel VF481™

Version	Revision Date:	MSDS Number:	Date of last issue: 01/16/2015
1.2	02/11/2015	46679-00003	Date of first issue: 01/13/2015

ACGIH BEI	:	ACGIH - Biological Exposure Indices (BEI)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	:	STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
OSHA Z-1 / TWA	:	8-hour time weighted average

Sources of key data used to compile the Material Safety Data Sheet	:	Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/
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Revision Date	:	02/11/2015
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The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8

SAFETY DATA SHEET



Resolve® Spray 'n Wash® Gold Laundry Stain Remover

HEALTH • HYGIENE • HOME

1. Product and company identification

Product name	Resolve® Spray 'n Wash® Gold Laundry Stain Remover
Distributed by	: Reckitt Benckiser LLC. Morris Corporate Center IV 399 Interpace Parkway (P.O. Box 225) Parsippany, New Jersey 07054-0225 +1 973 404 2600
Emergency telephone number (Medical)	: 1-800-338-6167
Emergency telephone number (Transport)	: 1-800-424-9300 (U.S. & Canada) CHEMTREC Outside U.S. and Canada (North America), call Chemtrec:703-527-3887
Website:	http://www.rbnainfo.com

This SDS is designed for workplace employees, emergency personnel and for other conditions and situations where there is greater potential for large-scale or prolonged exposure, in accordance with the requirements of USDOL Occupational Safety and Health Administration.

This SDS is not applicable for consumer use of our products. For consumer use, all precautionary and first aid language is provided on the product label in accordance with the applicable government regulations, and shown in Section 15 of this SDS.

SDS #	: D8156366
Formulation #:	: 8153106

2. Hazards identification

Classification of the substance or mixture	: SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
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GHS label elements

Hazard pictograms



Signal word	: Danger
Hazard statements	: Causes serious eye damage.

Precautionary statements

General	: Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.
Prevention	: Wear eye or face protection. Wash hands thoroughly after handling.
Response	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
Storage	: Not applicable.

D8156366

2. Hazards identification

- Disposal** : Not applicable.
- Supplemental label elements** : None known.
- Hazards not otherwise classified** : None known.

3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
Alcohols, C12-16, ethoxylated 3EO	5 - 10	68551-12-2
hydrogen peroxide	2.5 - 5	7722-84-1
Alcohols, C12-16, ethoxylated 7EO	2.5 - 5	68551-12-2
Propylene glycol	1.5 - 2.5	57-55-6

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First aid measures

Description of necessary first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Move to fresh air. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Causes serious eye damage.

D8156366

4. First aid measures

Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.

Skin contact : No known significant effects or critical hazards.

Ingestion : May cause burns to mouth, throat and stomach.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Inhalation : No specific data.

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Ingestion : Adverse symptoms may include the following:
stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media : None known.

Specific hazards arising from the chemical : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

D8156366

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Control

Occupational exposure limits

D8156366

8. Exposure controls/personal protection

Ingredient name	Exposure limits
hydrogen peroxide	<p>ACGIH TLV (United States, 6/2013). TWA: 1 ppm 8 hours. TWA: 1.4 mg/m³ 8 hours.</p> <p>OSHA PEL 1989 (United States, 3/1989). TWA: 1 ppm 8 hours. TWA: 1.4 mg/m³ 8 hours.</p> <p>NIOSH REL (United States, 10/2013). TWA: 1 ppm 10 hours. TWA: 1.4 mg/m³ 10 hours.</p> <p>OSHA PEL (United States, 2/2013). TWA: 1 ppm 8 hours. TWA: 1.4 mg/m³ 8 hours.</p>
Propylene glycol	<p>AIHA WEEL (United States, 10/2011). TWA: 10 mg/m³ 8 hours.</p>

- Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
- Individual protection measures**
 - Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
 - Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
 - Skin protection**
 - Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
 - Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
 - Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
 - Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

D8156366

9. Physical and chemical properties

Appearance

Physical state	: Liquid.
Color	: Opaque White.
Odor	: Characteristic.
Odor threshold	: Not available.
pH	: 3.5 (neat solution)
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 1 to 1.02
Solubility	: Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Dynamic (room temperature): <50 mPa·s (<50 cP)

10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur. Polymerization. : There are no data available on the mixture itself.
Conditions to avoid	: Do not mix with: acids or oxidizing agents
Incompatible materials	: Do not mix with household chemicals
Hazardous decomposition products	: Hazardous decomposition products : carbon oxides , Various Organic chemicals.

11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Alcohols, C12-16, ethoxylated	LD50 Oral	Rat	500 to 2000 mg/kg	-
hydrogen peroxide	LD50 Oral	Rat - Male, Female	805 mg/kg (70% H2O2 w/w)	-

Irritation/Corrosion

D8156366

11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Alcohols, C12-16, ethoxylated	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-
hydrogen peroxide	Eyes - Severe irritant	Rabbit	-	1 milligrams	-
Alcohols, C12-16, ethoxylated	Eyes - Moderate irritant	Rabbit	-	24 hours 100 microliters	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
hydrogen peroxide	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : May cause burns to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : No specific data.

D8156366

11. Toxicological information

- Skin contact** : Adverse symptoms may include the following:
 pain or irritation
 redness
 blistering may occur
- Ingestion** : Adverse symptoms may include the following:
 stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Potential chronic health effects

Not available.

- General** : No known significant effects or critical hazards.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	8843.4 mg/kg

12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
hydrogen peroxide	Acute EC50 1.2 mg/l Marine water	Algae - Dunaliella tertiolecta - Exponential growth phase	72 hours
	Acute EC50 5.38 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 2320 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 30 mg/l Fresh water	Fish - Siluriformes - Fingerling	96 hours
	Chronic NOEC 989.7 ppm Fresh water	Fish - Oncorhynchus tshawytscha - Egg	43 days

D8156366

12. Ecological information

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
hydrogen peroxide	-1.36	-	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

13. Disposal considerations

Disposal methods : Waste packaging should be recycled. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport information

Not a DOT controlled material (United States). Not a TDG-controlled material. This preparation is not classified as dangerous according to international transport regulations (ADR/RID, IMDG or ICAO/IATA).

15. Regulatory information

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): Not determined.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
hydrogen peroxide	2.5 - 5	Yes.	1000	106.1	1000	106.1

SARA 304 RQ : 28571.4 lbs / 12971.4 kg [3392.8 gal / 12843 L]

SARA 311/312

Classification : Immediate (acute) health hazard

D8156366

15. Regulatory information

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Alcohols, C12-16, ethoxylated	5 - 10	No.	No.	No.	Yes.	No.
hydrogen peroxide	2.5 - 5	No.	No.	No.	Yes.	No.
Alcohols, C12-16, ethoxylated	2.5 - 5	No.	No.	No.	Yes.	No.

State regulations

- Massachusetts** : The following components are listed: HYDROGEN PEROXIDE
- New York** : The following components are listed: Hydrogen peroxide
- New Jersey** : The following components are listed: PROPYLENE GLYCOL; 1,2-PROPANEDIOL; HYDROGEN PEROXIDE
- Pennsylvania** : The following components are listed: 1,2-PROPANEDIOL; HYDROGEN PEROXIDE (CONC > 52 PERCENT)

Label elements

- Signal word** : CAUTION
- Hazard statements** : CAUSES EYE AND SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED.
- Precautionary measures** : Keep out of the reach of children. Do not get in eyes. Do not get on skin. Do not ingest. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.
- Additional information** : Short term Skin Bleaching agent. IF ON SKIN: Rinse skin with water.

16. Other information

Hazardous Material Information System (U.S.A.) :

Health	2
Flammability	0
Physical hazards	0
Personal protection	B

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868.

The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.) :



D8156366

16. Other information

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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Key to abbreviations

- : ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- UN = United Nations

Date of issue : 12/03/2015.
Date of previous issue : 16/10/2014.
Version : 1
Prepared by : Reckitt Benckiser Italy
Via Sant'Antonio, 5
30034 MIRA, VENICE
ITALY
++39 041 5629211

✔ Indicates information that has changed from previously issued version.

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



RB is a member of the CSPA Product Care Product Stewardship Program.

1. Product and Company Identification

Product identifier	Sani-Hands Instant Hand Sanitizing Wipes	SDS 0098-00
Other means of identification	Not available	
Recommended use	Antiseptic	
Recommended restrictions	None known.	
Manufacturer	Professional Disposables International, Inc. Two Nice-Pak Park, Orangeburg, NY 10962-1376 or Distributed By: Professional Disposables International, LTD Vaughan, Ontario L4L 4K9 Canada Phone: (USA) 1-845-365-1700 (M-F 9am - 5pm) Phone: (CANADA) 1-800-263-7067 Emergency Phone: 1-800-999-6423	

2. Hazards Identification

Physical hazards	Flammable solids	Category 1
Health hazards	Serious eye damage/eye irritation	Category 2A
Environmental hazards	Not determined	
OSHA defined hazards	None additional	

Label elements



Signal word	Danger		
Hazard statement	Flammable solid. Causes serious eye irritation.		
Precautionary statement			
Prevention	Keep away from fire or flame. Keep container closed.		
Response	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell. In case of fire: Use appropriate media to extinguish.		
Storage	Store in a well-ventilated place. Keep container closed.		
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.		
Hazard(s) not otherwise classified (HNOC)	None known.		
Supplemental information	Not applicable.		

3. Composition/Information on Ingredients

Mixture

Chemical name	Common name and synonyms	CAS number	%
Alcohol		64-17-5	40 - 70
Propylene glycol		57-55-6	1 - 5

Composition comments The exact % concentration of composition has been withheld as a trade secret in accordance with paragraph (i) of the OSHA HCS 1910.1200.
All concentrations are expressed as % weight.

4. First Aid Measures

Inhalation If inhaled for a prolonged period of time, remove person to fresh air and keep comfortable for breathing.

Skin contact	Discontinue use if irritation and redness develop. If condition persists for more than 72 hours, consult a physician.
Eye contact	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	If swallowed, get medical help or contact a Poison Control Center immediately.
Most important symptoms/effects, acute and delayed	Symptoms may include stinging, tearing, redness, swelling of the eyes, and blurred vision. Direct contact with eyes may cause temporary irritation. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Indication of immediate medical attention and special treatment needed	Treat patient symptomatically.
General information	If you feel unwell, seek medical advice (show the label where possible). Have the product container or label with you when calling a poison control center or doctor, or going for treatment. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Avoid contact with eyes. Keep away from sources of ignition. No smoking. Keep out of reach of children.

5. Fire Fighting Measures

Suitable extinguishing media	Dry chemical. Carbon dioxide. Foam.
Unsuitable extinguishing media	Do not use water jet.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. Firefighters should wear a self-contained breathing apparatus.
Special protective equipment and precautions for firefighters	Firefighters should wear full protective clothing including self contained breathing apparatus. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. In the event of fire, cool tanks with water spray. Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	Flammable solid.
Hazardous combustion products	May include and are not limited to: Oxides of carbon.
Explosion data	
Sensitivity to mechanical impact	Not available.
Sensitivity to static discharge	Not available.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures	Wear appropriate protective equipment and clothing during clean-up. Avoid contact with eyes. Ventilate closed spaces before entering them. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Before attempting clean up, refer to hazard data given above. Small spills may be absorbed with non-reactive absorbent and placed in suitable, covered, labelled containers. Prevent large spills from entering waterways. Contact emergency services and supplier for advice. Large Spills: Following product recovery, flush area with water. Wipe or mop up liquid, if any, and dispose properly.
Environmental precautions	Do not discharge into waterways.

7. Handling and Storage

Precautions for safe handling	WARNING Flammable, keep away from fire or flame. Do not use in contact with eyes. For external use only. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Avoid prolonged exposure. Keep container closed. Use according to package label instructions.
--------------------------------------	---

Conditions for safe storage, including any incompatibilities

Store in a cool, dry place out of direct sunlight.
 Store in a closed container away from incompatible materials.
 Store in a well-ventilated place.
 Keep away from heat, open flames or other sources of ignition.
 Store away from incompatible materials (see Section 10 of the SDS).
 Keep this out of reach of children unless under adult supervision.

8. Exposure Controls/Personal Protection

Occupational exposure limits**US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)**

Components	Type	Value
Alcohol (CAS 64-17-5)	PEL	1900 mg/m ³ 1000 ppm

US. ACGIH Threshold Limit Values

Components	Type	Value
Alcohol (CAS 64-17-5)	STEL	1000 ppm

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
Alcohol (CAS 64-17-5)	TWA	1900 mg/m ³ 1000 ppm

US. AIHA Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value	Form
Propylene glycol (CAS 57-55-6)	TWA	10 mg/m ³	Aerosol.

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

See above

Appropriate engineering controls

General ventilation normally adequate. Provide eyewash station.

Individual protection measures, such as personal protective equipment**Eye/face protection**

Wear gear as deemed necessary. Follow label directions.

Skin protection**Hand protection**

Not required.

Other

As required by employer code.
Follow label directions carefully.

Respiratory protection

Where exposure guideline levels may be exceeded, use an approved NIOSH respirator. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Wear positive pressure self-contained breathing apparatus (SCBA).

Thermal hazards

Not applicable.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice. When using do not smoke.

9. Physical and Chemical Properties

Appearance Liquid saturated on wipe

Physical state Solid.

Form Liquid saturated on wipe

Color Colorless

Odor Alcohol

Odor threshold Not available.

pH 7.5

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Pour point Not available.

Specific gravity 0.883 (Liquid)

Partition coefficient (n-octanol/water) Not available.

Flash point	71.6 °F (22.0 °C) Tag Closed Cup (Liquid)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Flash point class	Combustible II

10. Stability and Reactivity

Reactivity	This product may react with strong oxidizing agents.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Chemical stability	Stable under recommended storage conditions.
Conditions to avoid	Do not mix with other chemicals. Avoid heat, sparks, open flames and other ignition sources.
Incompatible materials	Strong oxidizing agents. Oxidizers.
Hazardous decomposition products	May include and are not limited to: Oxides of carbon.

11. Toxicological Information

Routes of exposure	Inhalation. Ingestion. Skin contact. Eye contact.
Information on likely routes of exposure	
Ingestion	Expected to be a low ingestion hazard.
Inhalation	Prolonged inhalation may be harmful. May cause irritation to the respiratory system. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Skin contact	Non-irritating based on test data.
Eye contact	May be irritating to eyes.
Symptoms related to the physical, chemical and toxicological characteristics	Symptoms may include stinging, tearing, redness, swelling of the eyes, and blurred vision. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Information on toxicological effects	
Acute toxicity	Narcotic effects. May cause respiratory irritation.

Toxicity data in this section is based on individual component information and not based on the finished product.

Components	Species	Test Results
Alcohol (CAS 64-17-5)		
Acute		
<i>Dermal</i>		
LD50	Not available	
<i>Inhalation</i>		
LC50	Mouse	39 mg/l, 4 Hours
	Rat	31623 ppm, 4 Hours
		20000 ppm, 10 Hours

Components	Species	Test Results
<i>Oral</i> LD50	Dog	5500 mg/kg
	Guinea pig	5600 mg/kg
	Mouse	3450 mg/kg
	Rat	7060 mg/kg
Propylene glycol (CAS 57-55-6)		
Acute		
<i>Dermal</i> LD50	Rabbit	20800 mg/kg
<i>Inhalation</i> LC50	Not available	
<i>Oral</i> LD50	Dog	19000 mg/kg
	Guinea pig	184000 mg/kg
	Mouse	23900 mg/kg
	Rabbit	14800 mg/kg
	Rat	20000 mg/kg
Skin corrosion/irritation	Non-irritating based on test data.	
Exposure minutes	Not available.	
Erythema value	Not available.	
Oedema value	Not available.	
Serious eye damage/eye irritation	May cause irritation.	
Corneal opacity value	Not available.	
Iris lesion value	Not available.	
Conjunctival reddening value	Not available.	
Conjunctival oedema value	Not available.	
Recover days	Not available.	
Respiratory or skin sensitization		
Respiratory sensitization	Not classified.	
Skin sensitization	This product is not expected to cause skin sensitization.	
Germ cell mutagenicity	The finished product is not expected to have chronic health effects.	
Mutagenicity	The finished product is not expected to have chronic health effects.	
Carcinogenicity	The finished product is not expected to have chronic health effects.	
Reproductive toxicity	The finished product is not expected to have chronic health effects.	
Teratogenicity	The finished product is not expected to have chronic health effects.	
Specific target organ toxicity - single exposure	Not classified.	
Specific target organ toxicity - repeated exposure	Not classified.	
Aspiration hazard	Not classified.	
Chronic effects	The finished product is not expected to have chronic health effects.	
Further information	Not available.	
Name of Toxicologically Synergistic Products	Not available.	

12. Ecological Information

Ecotoxicity	See below	Species	Test Results
Components			
Alcohol (CAS 64-17-5)			
Crustacea	EC50	Daphnia	11744.5 mg/L, 48 Hours

Components	Species	Test Results
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) 7.7 - 11.2 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) > 100 mg/l, 96 hours
Propylene glycol (CAS 57-55-6)		
Crustacea	EC50	Daphnia 10000 mg/L, 48 Hours
Aquatic		
Crustacea	EC50	Water flea (Daphnia magna) > 10000 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas) 710 mg/l, 96 hours
Persistence and degradability	No data is available on the degradability of this product.	
Bioaccumulative potential	No data available.	
Mobility in soil	No data available.	
Mobility in general	Not available.	
Other adverse effects	Not available.	

13. Disposal Considerations

Disposal instructions	Review federal, state/provincial, and local government requirements prior to disposal. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	See above
Hazardous waste code	Not assigned.
Waste from residues / unused products	Empty containers may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

U.S. Department of Transportation (DOT)

Basic shipping requirements:

UN number	UN3175
Proper shipping name	Solids containing flammable liquid, n.o.s. (Alcohol)
Hazard class	4.1
Packing group	II
Packaging exceptions	<1kg - limited quantity (par. 173.151)

Note: Individually wrapped packet product is exempted from DOT regulation per Special Provision 47.

Transportation of Dangerous Goods (TDG - Canada)

Basic shipping requirements:

UN number	UN3175
Proper shipping name	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Alcohol)
Hazard class	4.1
Packing group	II
Packaging exceptions	<1Kg-Limited Quantity

DOT; TDG



15. Regulatory Information

Canadian federal regulations	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.
-------------------------------------	--

Canada NPRI VOCs with Additional Reporting Requirements: Mass reporting threshold/Identification Number

Alcohol (CAS 64-17-5)

1 TONNES

Canada WHMIS Ingredient Disclosure: Threshold limits

Alcohol (CAS 64-17-5)	0.1 %
Propylene glycol (CAS 57-55-6)	1 %

WHMIS classification Exempt - Notified cosmetic under the Food & Drugs Act

US federal regulations This product contains a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US CAA Section 111 Volatile Organic Compounds: Listed substance

Alcohol (CAS 64-17-5)	Listed.
Propylene glycol (CAS 57-55-6)	Listed.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - Yes
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations

Safe Drinking Water Act (SDWA) Not regulated.

Food and Drug Administration (FDA) Regulated as a monograph drug product.

US state regulations See below

US - California Hazardous Substances (Director's): Listed substance

Alcohol (CAS 64-17-5)	Listed.
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US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US - Illinois Chemical Safety Act: Listed substance

Alcohol (CAS 64-17-5)	Listed.
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US - Louisiana Spill Reporting: Listed substance

Alcohol (CAS 64-17-5)	Listed.
-----------------------	---------

US - Minnesota Haz Subs: Listed substance

Alcohol (CAS 64-17-5)	Listed.
Propylene glycol (CAS 57-55-6)	Listed.

US - New Jersey RTK - Substances: Listed substance

Alcohol (CAS 64-17-5)	Listed.
Propylene glycol (CAS 57-55-6)	Listed.

US - Texas Effects Screening Levels: Listed substance

Alcohol (CAS 64-17-5)	Listed.
Propylene glycol (CAS 57-55-6)	Listed.

US. Massachusetts RTK - Substance List

Alcohol (CAS 64-17-5)	Listed.
-----------------------	---------

US. Pennsylvania RTK - Hazardous Substances

Alcohol (CAS 64-17-5)	Listed.
Propylene glycol (CAS 57-55-6)	Listed.

US. Rhode Island RTK

Not regulated.

Inventory status

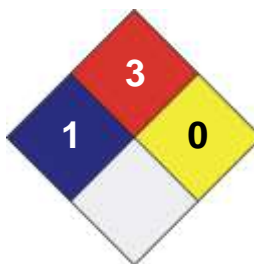
Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. Other Information

LEGEND	
Severe	4
Serious	3
Moderate	2
Slight	1
Minimal	0

HEALTH	/ 1
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	X

**Disclaimer**

The information in the sheet was written based on the best knowledge and experience currently available. Information contained herein was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the requirements of all applicable legislation and regulatory instruments. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this document.

Issue date

01-April-2015

Effective date

01-September-2014

Expiry date

01-September-2017

Further information

For any questions surrounding this SDS, please contact the supplier/manufacturer listed on the first page of the document.

Revision 1.

Hazard categorization updated. Ingredient ranges used and revised in Section 3. Transportation information updated.

Based on bulk liquid # 4OP72301.

Prepared by

Dell Tech Laboratories, Ltd. Phone: (519) 858-5021

Other information

This Safety Data Sheet was prepared to comply with the current OSHA Hazard Communication Standard (HCS) adoption of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

This SDS conforms to the ANSI Z400.1/Z129.1-2010 Standard.

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name: Sensi-Care® Protective Barrier

Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

Product Use: For the treatment and prevention of irritation due to incontinence

Details of the Supplier of the Substance or Mixture

Manufacturer: ConvaTec Inc.
211 American Avenue
Greensboro
North Carolina 27409
USA
Customer Interaction Center: 800-422-8811 or 908-904-2432
8:30AM – 8:00PM EST Monday-Thursday
8:30AM – 6:00PM EST Friday
10:00AM – 2:00PM EST Saturday

Emergency Telephone Number

CHEMTREC: 800-424-9300

Outside the US: 703-527-3887

2. HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

GHS Classification: Not Hazardous

Label Elements: No hazard labeling required.

Other Hazards: None identified

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Component	CAS Number	Amount	GHS Classification
White Petrolatum	8009-03-8	30-60	Not Hazardous
Sodium Carboxymethylcellulose	9004-32-4	10-30	Not Hazardous
Zinc Oxide	1314-13-2	10-30	Not Hazardous
Water	7732-18-5	5-10	Not Hazardous
Modified polyether-polysiloxane	144243-3-8	3-7	Not Hazardous
Stearic Acid	57-10-3	1-5	Not Hazardous
Glycerin	56-81-5	1-5	Not Hazardous
Phenoxyethanol	122-99-6	0.5-1.5	Acute Tox Cat 4 (H302), Eye Irrit Cat 2 (H319)

Refer to Section 16 for Full Text of EU/GHS Classes and R Phrases/H Statements

4. FIRST AID MEASURES

Description of First Aid Measures

First Aid

Eyes: If eye contact occurs, flush eyes thoroughly with water. If irritation persists, seek medical attention.

Skin: No first aid should be needed.

Ingestion: If large amount is swallowed, get medical advice.

Inhalation: No first aid should be needed.

See Section 11 for more detailed information on health effects.

Most Important symptoms and effects, both acute and delayed: May cause mild mechanical (abrasive) eye irritation.

Indication of any immediate medical attention and special treatment needed: Immediate medical attention is not required.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Use media appropriate for surrounding fire. Avoid direct water or foam on open containers as this may cause frothing.

Special Hazards Arising from the Substance or Mixture: Product will burn under fire conditions. Combustion will release carbon monoxide, carbon dioxide, silicon dioxide, and irritating smoke.

Advice for Fire-Fighters: Wear positive pressure self-contained breathing apparatus and full protective clothing for all fires involving chemical products and all interior fires.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: None required.

Environmental Precautions: Avoid contamination of water supplies and environmental releases. Report spills as required to authorities.

Methods and Material for Containment and Cleaning Up: Mop or scoop up and place in a container for disposal. Clean spill area thoroughly.

Reference to Other Sections:

Refer to Section 13 for disposal information and Section 8 for protective equipment.

7. HANDLING AND STORAGE

Precautions for Safe Handling:

This product is not hazardous. No special handling is required.

Conditions for Safe Storage, Including any Incompatibilities: Store at room temperature. Keep containers closed to protect product integrity.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters:

Chemical Name	ACGIH TLV	OSHA PEL
White Petrolatum	None Established	5 mg/m ³ TWA (as oil mist, mineral)
Sodium Carboxymethylcellulose	None Established	None Established
Zinc Oxide	2 mg/m ³ (Respirable) TWA 10 mg/m ³ (Respirable) STEL	5 mg/m ³ (Respirable) TWA 15 mg/m ³ (Total Dust) TWA
Water	None Established	None Established
Modified polyether-polysiloxane	None Established	None Established
Steric Acid	None Established	None Established
Glycerin	None Established	5 mg/m ³ (Respirable, Mist) TWA 15 mg/m ³ (Total Dust, Mist) TWA
Phenoxyethanol	None Established	None Established

Exposure Controls:

Appropriate Engineering Controls: No special ventilation is required for normal handling and use.

Personal Protective Measurers

Respiratory Protection: Not necessary if workplace concentrations of hazardous constituents are below recommended limits. If the exposure limit is exceeded, an approved respirator should be worn. Respirator selection and use should be based on contaminant type, form and concentration. Follow local regulations and good Industrial Hygiene practice.

Eye Protection: Follow facility requirements.

Skin Protection: None required.

Other protection: None required.

Document was approved per CR-015944

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic Physical and Chemical Properties:

Appearance and Odor: Smooth, white ointment.

Solubility in Water:	Insoluble	Boiling Point:	Not Applicable
Odor Threshold:	Not Applicable	Partition Coefficient:	Not Applicable
pH:	Not Applicable	Melting Point:	Not Applicable
Specific Gravity:	1.08 @ 21°C	Vapor Density:	Not Applicable
Evaporation Rate:	Not Applicable	Vapor Pressure:	Not Applicable
Flammability(solid/gas):	Not Applicable	Flash Point:	>200°F (93.3°C)
Explosive Limits:	Not Applicable	Autoignition Temperature:	Not determined
Decomposition Temperature:	Not Applicable	Viscosity:	Not determined
Explosive Properties:	Not explosive	Oxidizing Properties:	Not an oxidizer

10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions of use and storage.

Chemical Stability: Stable.

Possibility of Hazardous Reactions: None known.

Conditions to Avoid: None known.

Incompatible Materials: None known.

Hazardous Decomposition Products: Products of combustion include carbon dioxide, carbon monoxide, silicon dioxide and irritating smoke.

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Hazards

Inhalation: None expected.

Skin Contact: None expected.

Eye Contact: May cause slight irritation.

Ingestion: Not expected to be acutely toxic.

Chronic Health Effects: None known.

Acute Toxicity Values: Oral rat LD50: > 2000 mg/kg
Dermal rabbit LD50: >2000 mg/kg

Skin corrosion/irritation: No irritation is expected.

Eye damage/ irritation: No irritation is expected.

Respiratory Irritation: No irritation is expected.

Skin Sensitization: No adverse effects expected. Components are not sensitizers.

Respiratory Sensitization: No adverse effects expected. Components are not sensitizers.

Germ Cell Mutagenicity: This product is not expected to present a risk of genetic damage.

Carcinogenicity: None of the components is listed as a potential carcinogen by IARC, NTP, ACGIH or the EU CLP.

Developmental / Reproductive Toxicity: This product is not expected to present a risk of adverse reproductive or developmental toxicity.

Specific Target Organ Toxicity (Single Exposure): No adverse effects of exposure are expected from normal use.

Specific Target Organ Toxicity (Repeated Exposure): No adverse effects of exposure are expected from normal use.

12. ECOLOGICAL INFORMATION

Toxicity: Zinc Oxide: Zebrafish LC50: 1.793 mg/L/96 hr; Daphnia EC50: 1.7 mg/L/48 hr

Persistence and degradability: Product contains zinc oxide which is not rapidly biodegradable.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Results of PVT and vPvB assessment: None required.

Other Adverse Effects: None known.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods:

Dispose in accordance with all local, state and national regulations. Local regulations may be more stringent than regional and national requirements. It is the responsibility of the waste generator to determine the toxicity and physical characteristics of the material to determine the proper waste identification and disposal in compliance with applicable regulations.

14. TRANSPORT INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(es)	14.4 Packing Group	14.5 Environmental Hazards
US DOT	None	Not Regulated	None	None	
CANADIAN TDG	None	Not Regulated	None	None	
EU ADR/RID	None	Not Regulated	None	None	
IMDG	None	Not Regulated	None	None	
IATA/ICAO	None	Not Regulated	None	None	

14.6 Special Precautions for User: None identified

14.7 Transport in Bulk According to Annex III MARPOL 73/78 and the IBC Code: Not applicable. Transported in packaged form only.

15. REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

United States Regulations

EPA SARA Regulations:

SARA 311/312 Hazard Categories:

- N – Fire Hazard
- N – Sudden Release of Pressure
- N – Reactivity
- N – Acute Health
- N – Chronic Health

SARA 313: This contains the following chemicals above de minimus concentrations subject to the notification or reporting requirements of SARA 313: None

CERCLA Section 103: This product is not subject to release notification. However, states and local authorities may have more stringent requirements. Report releases as required by all local and national authorities.

California Proposition 65: This product is not known to contain chemicals regulated under California Proposition 65.

Canada Regulations

WHMIS: This product is not hazardous.

INTERNATIONAL INVENTORIES

TSCA Status: All of the ingredients of this product are listed on TSCA.

Document was approved per CR-015944

Canadian Environmental Protection Act: All of the ingredients of this product are listed on the DSL.

16. OTHER INFORMATION

Full text of Classification abbreviations used in Section 2 and 3:

Acute Tox Cat 4 - Acute Toxicity Category 4

Eye Irrit Cat 2 - Eye Irritation Category 2

H302 - Harmful if swallowed.

H319 - Causes serious eye irritation.

This information is furnished without warranty, expressed or implied. It is accurate to the best knowledge of ConvaTec. The data on this sheet is related only to the specific product designated herein. ConvaTec assumes no legal responsibility for the use or reliance upon these data.

HISTORY PAGE

VERSION:	1.0	DCR:	006045	ORIGINATOR:	Donn Hirschmann
COMMENTS: THIS IS AN ORIGINAL SAFETY DATA SHEET.					
VERSION:	2.0	DCR:	007571	ORIGINATOR:	A. Agrawal
COMMENTS: THIS IS PART OF AN UMBRELLA DCR (SDS12-016-PA, SDS13-044-NA, SDS13-045-NA, SDS13-064-NA, SDS13-065-NA, SDS13-067-EU, SDS13-069-NA, SDS13-070-NA). THROUGHOUT DOCUMENT, REMOVED BMS REFERENCES. THERE ARE NO TECHNICAL CHANGES TO THE DOCUMENT; CONVA TEC IS NO LONGER A BMS COMPANY.					
VERSION:	3.0	CR:	015944	ORIGINATOR:	D. Miles
COMMENTS: MANUFACTURER'S DETAILS WAS UPDATED IN SECTION 1. THE SAFETY DATA SHEET WAS UPDATED TO COMPLY WITH THE GLOBAL HARMONISED SYSTEM REQUIREMENTS.					

Document was approved per CR-015944



Becton, Dickinson and Company
BD, Franklin Lakes, NJ 07417 USA
www.bd.com

Product name: 5.4 qt BD™ next generation patient / exam room sharps collector
Product No.: 305517

1/1

Article Statement

This product is considered an “article” and does not require a Material Safety Data Sheet according to the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard or the EU REACH Regulation (EC) No 1907/2006. According to these agencies, an article is an item which is formed into a specific shape or design during manufacture and which does not release or otherwise result in exposure to a hazardous chemical under normal use.

To the best of our knowledge, the information contained herein is accurate. It is the responsibility of the user to use the article for the purpose for which it is intended and to exercise caution during use.

Safety Data Sheet

SoloSite™ Wound Gel

1. Identification

1.1. Product identifier

Product Identity SoloSite™ Wound Gel

Alternate Names SoloSite™ Wound Gel

1.2. Relevant identified uses of the substance or mixture and uses advised against

Intended use Wound Cleanser

Application Method See Technical Data Sheet.

1.3. Details of the supplier of the safety data sheet

Company Name Smith & Nephew
970 Lake Carillon Drive, Suite 110
St. Petersburg, FL 33716

Emergency

Customer Service: Smith & Nephew 1-800-876-1261

2. Hazard(s) identification

2.1. Classification of the substance or mixture

No applicable GHS categories.

2.2. Label elements

Using the Toxicity Data listed in section 11 and 12 the product is labeled as follows.

No applicable GHS categories.

[Prevention]:

No GHS prevention statements

[Response]:

No GHS response statements

[Storage]:

No GHS storage statements

[Disposal]:

No GHS disposal statements

Safety Data Sheet

SoloSite™ Wound Gel

3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the relevant State and Federal Hazardous Substances regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Glycerol CAS Number: 0000056-81-5	10 - 25	Not Classified	[1][2]
Cellulose, carboxymethyl ether, sodium salt CAS Number: 0009004-32-4	1.0 - 10	Not Classified	[1]

In accordance with paragraph (i) of §1910.1200, the specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

[1] Substance classified with a health or environmental hazard.

[2] Substance with a workplace exposure limit.

[3] PBT-substance or vPvB-substance.

*The full texts of the phrases are shown in Section 16.

4. First aid measures

4.1. Description of first aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.
Never give anything by mouth to an unconscious person.

Inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eyes

Irrigate copiously with clean water for at least 15 minutes, holding the eyelids apart and seek medical attention.

Skin

No first aid should be needed.

Ingestion

Call a physician or poison control center for instructions. Do not induce vomiting unless directed to do so by medical personnel.

4.2. Most important symptoms and effects, both acute and delayed

Overview

Acute effects include eye irritation and gastrointestinal irritation.

5. Fire-fighting measures

5.1. Extinguishing media

Carbon dioxide, dry chemical, alcohol foam

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition: Oxides of carbon, phenol

5.3. Advice for fire-fighters

Use water spray to cool fire-exposed containers.

Do not release runoff from fire control methods to sewers or waterways.

Wear self-contained breathing apparatus and protective clothing.

ERG Guide No. ----

Safety Data Sheet

SoloSite™ Wound Gel

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Put on appropriate personal protective equipment (see section 8).

6.2. Environmental precautions

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

6.3. Methods and material for containment and cleaning up

Small Spills: Wipe up spill. Rinse with water.

Large spills: Add salt to break up polymer, then mop or wipe up spill and place in proper container for disposal.

7. Handling and storage

7.1. Precautions for safe handling

None

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry place < 77°F / 25°C.

Incompatible materials: Strong oxidizing agents, strong bases

7.3. Specific end use(s)

No data available.

8. Exposure controls and personal protection

8.1. Control parameters

Exposure

CAS No.	Ingredient	Source	Value
0000056-81-5	Glycerol	OSHA	TWA 15 mg/m ³ (total) TWA 5 mg/m ³ (resp)
		ACGIH	TWA: 3 mg/m ³ (respirable) 10 mg/m ³ (mist)
		NIOSH	No established RELs
		Supplier	No Established Limit
0009004-32-4	Cellulose, carboxymethyl ether, sodium salt	OSHA	No Established Limit
		ACGIH	No Established Limit
		NIOSH	No Established Limit
		Supplier	No Established Limit

Safety Data Sheet

SoloSite™ Wound Gel

Carcinogen Data

CAS No.	Ingredient	Source	Value
0000056-81-5	Glycerol	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;
0009004-32-4	Cellulose, carboxymethyl ether, sodium salt	OSHA	Select Carcinogen: No
		NTP	Known: No; Suspected: No
		IARC	Group 1: No; Group 2a: No; Group 2b: No; Group 3: No; Group 4: No;

8.2. Exposure controls

Respiratory	None required for normal use.
Eyes	None required for normal use.
Skin	None required for normal use.
Engineering Controls	Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapor below occupational exposure limits suitable respiratory protection must be worn.
Other Work Practices	Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet. Promptly remove soiled clothing and wash thoroughly before reuse.

9. Physical and chemical properties

Appearance	Translucent Gel
Odor	Odorless
Odor threshold	Not determined
pH	5.3 - 7.0 @ 25°C
Melting point / freezing point	Not determined
Initial boiling point and boiling range	Not applicable
Flash Point	> 200°F / > 93°C
Evaporation rate (Ether = 1)	< 1 (nBuAc = 1)
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: Not known Upper Explosive Limit: Not known
Vapor pressure (Pa)	> 10 mmHg
Vapor Density	Not applicable
Specific Gravity	0.958 - 1.172 @ 25°C (H ₂ O = 1)
Solubility in Water	Insoluble
Partition coefficient n-octanol/water (Log Kow)	Not Measured
Auto-ignition temperature	Not determined
Decomposition temperature	Not available
Viscosity (cSt)	45E3 - 90E3 cPs @ 25°C
VOC Content	Not available

9.2. Other information

Safety Data Sheet

SoloSite™ Wound Gel

No other relevant information.

10. Stability and reactivity

10.1. Reactivity

Hazardous Polymerization will not occur.

10.2. Chemical stability

Stable under normal circumstances.

10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

Keep away from oxidizing agents, excessive heat, and ignition sources.

10.5. Incompatible materials

Strong oxidizing agents, strong bases

10.6. Hazardous decomposition products

Oxides of carbon, phenol

11. Toxicological information

Acute toxicity

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Glycerol - (56-81-5)	12,600.00, Rat - Category: NA	10,000.00, Rabbit - Category: NA	No data available	No data available	No data available
Cellulose, carboxymethyl ether, sodium salt - (9004-32-4)	No data available	No data available	No data available	No data available	No data available

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable

Safety Data Sheet

SoloSite™ Wound Gel

Reproductive toxicity	---	Not Applicable
STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

12. Ecological information

12.1. Toxicity

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	Er C50 algae, mg/l
Glycerol - (56-81-5)	67,500.00, Oncorhynchus mykiss	10,000.00, Daphnia magna	Not Available
Cellulose, carboxymethyl ether, sodium salt - (9004-32-4)	Not Available	Not Available	Not Available

12.2. Persistence and degradability

There is no data available on the preparation itself.

12.3. Bioaccumulative potential

Not Measured

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This product contains no PBT/vPvB chemicals.

12.6. Other adverse effects

No data available.

13. Disposal considerations

13.1. Waste treatment methods

Observe all federal, state and local regulations when disposing of this substance.

14. Transport information

	DOT (Domestic Surface Transportation)	IMO / IMDG (Ocean Transportation)	ICAO/IATA
14.1. UN number	Not Applicable	Not Regulated	Not Regulated
14.2. UN proper shipping name	Consumer commodity, ORM-D	Consumer commodity	Consumer commodity
14.3. Transport hazard class(es)	DOT Hazard Class: ORM-D	IMDG: Not Applicable Sub Class: Not Applicable	Air Class: 9

Safety Data Sheet

SoloSite™ Wound Gel

14.4. Packing group Not Applicable Not Applicable Not Applicable

14.5. Environmental hazards

IMDG Marine Pollutant: No

14.6. Special precautions for user

No further information

15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA Inventory.

WHMIS Classification Not Regulated

US EPA Tier II Hazards **Fire:** No

Sudden Release of Pressure: No

Reactive: No

Immediate (Acute): No

Delayed (Chronic): No

EPCRA 311/312 Chemicals and RQs:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):

Glycerol

Pennsylvania RTK Substances (>1%):

Glycerol

Safety Data Sheet

SoloSite™ Wound Gel

16. Other information

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

Not Applicable

This is the first version in the GHS SDS format. Listings of changes from previous versions in other formats are not applicable.

End of Document

Safety Data Sheet

Material Name: WEBCOL/Curity Alcohol Prep Pads

SDS ID: COV-001

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name

WEBCOL/Curity Alcohol Prep Pads

Trade Names

5033, 5110, 5750, 6818, 6818-1, 63001, 15033, 16818, 176818, 20339, 681812, 6818-2, 7MJ46621, 7MJ36339, 7RA58200, 7RA71200, 7RI43405, 7R145719, 7RI45720, 7RI45721, 7RI45722, 7RI82380, 7RI82402, 70Y33230, 985629, MKN42634, 693035, 121-6131, 6818M, GS42634

Synonyms

Isopropyl Alcohol 65-75%

Chemical Family

ISOPROPYL ALCOHOL

Product Use

Skin preparation pads for use in medical applications

Restrictions on Use

For use under medical supervision only.

Manufacturer Information

Covidien, LP

15 Hampshire Street

Mansfield, MA 02048

USA

Phone: +1-(508) 261-8000 (Monday - Friday 8:00 am to 5:00 pm)

Email: customerservice@medtronic.com

Emergency Telephone Number:

CHEMTREC (800) 424-9300 (for US and Canada)

1(703) 527-3887 (Outside US and Canada)

Collect calls accepted

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.

Flammable Liquids - Category 2

Serious Eye Damage/Eye Irritation - Category 2A

GHS Label Elements

Symbol(s)



Safety Data Sheet

Material Name: WEBCOL/Curity Alcohol Prep Pads

SDS ID: COV-001

Signal Word

Danger

Hazard Statement(s)

Highly flammable liquid and vapor
Causes serious eye irritation

Precautionary Statement(s)

Prevention

Keep away from heat/sparks/open flame/hot surfaces - No smoking
Wash thoroughly after handling

Response

In case of fire: Use appropriate media to extinguish
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

Storage

Store in a cool dry place

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations

Other Hazards

No additional information available.

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Component Name	Percent (%)
7732-18-5	Water	25 - 35
67-63-0	Isopropyl alcohol	65 - 75

Section 4 - FIRST AID MEASURES

Inhalation

Not a likely route of exposure.

Skin

It is unlikely that first aid will be required. If skin irritation occurs: Get medical advice/attention.

Eyes

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion

If swallowed, get medical attention.

Safety Data Sheet

Material Name: WEBCOL/Curity Alcohol Prep Pads

SDS ID: COV-001

Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

Most Important Symptoms/Effects

Acute

Causes serious eye irritation.

Delayed

No information on significant adverse effects.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Use dry chemical, carbon dioxide, alcohol-resistant foam or water spray.

Unsuitable Extinguishing Media

None known.

Special Hazards Arising from the Chemical

Highly flammable liquid and vapor.

Hazardous Combustion Products

Oxides of carbon

Advice for firefighters

Avoid inhalation of material or combustion by-products.

Fire Fighting Measures

Avoid inhalation of material or combustion by-products.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Wear personal protective clothing and equipment.

Methods and Materials for Containment and Cleaning Up

Clear up spills immediately and dispose of waste safely.

Environmental Precautions

Avoid release to the environment.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling

Keep away from heat/sparks/open flames/hot surfaces.

Conditions for Safe Storage, Including any Incompatibilities

Store in a cool dry place

Safety Data Sheet

Material Name: WEBCOL/Curity Alcohol Prep Pads

SDS ID: COV-001

Incompatible Materials

Aldehydes, halogenated compounds, halogens, strong acids, strong oxidizing agents

Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

Isopropyl alcohol	67-63-0
ACGIH:	200 ppm TWA
	400 ppm STEL
NIOSH:	400 ppm TWA; 980 mg/m ³ TWA
	500 ppm STEL; 1225 mg/m ³ STEL
	2000 ppm IDLH (10% LEL)
OSHA (US):	400 ppm TWA; 980 mg/m ³ TWA
Mexico:	400 ppm TWA LMPE-PPT; 980 mg/m ³ TWA LMPE-PPT
	500 ppm STEL [LMPE-CT]; 1225 mg/m ³ STEL [LMPE-CT]

Biological limit value

There are no biological limit values for any of this product's components.

Engineering Controls

Based on available information, additional ventilation is not required. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment

Eye/face protection

Safety glasses or goggles are recommended when there is a potential for eye contact.

Skin Protection

Not required.

Respiratory Protection

No respirator is required under normal conditions of use.

Glove Recommendations

Hand protection is not required.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Non-woven cloth saturated with liquid in foil package	Physical State	Liquid
Odor	Alcohol	Color	Colorless
Odor Threshold	Not available	pH	Not available

Safety Data Sheet

Material Name: WEBCOL/Curity Alcohol Prep Pads

SDS ID: COV-001

Melting Point	Not available	Boiling Point	82 °C (literature value)
Freezing point	-89 °C (literature value)	Evaporation Rate	Not available
Boiling Point Range	Not available	Flammability (solid, gas)	Not available
Autoignition	399 °C (literature value)	Flash Point	12 °C (estimate based on isopropyl alcohol)
Lower Explosive Limit	2 % (V)	Decomposition	Not available
Upper Explosive Limit	12 % (V)	Vapor Pressure	33 mmHg (@ 20 °C - literature value)
Vapor Density (air=1)	2.1 (literature value)	Specific Gravity (water=1)	0.7855 (@ 20 °C - literature value)
Water Solubility	100%	Partition coefficient: n-octanol/water	0.05 (measured value)
Viscosity	Not available	Solubility (Other)	Not available
Density	Not available		

Other Information

No additional information available.

Section 10 - STABILITY AND REACTIVITY

Reactivity

Not known to occur.

Chemical Stability

Stable under normal conditions of use.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Avoid direct sunlight.

Incompatible Materials

Aldehydes, halogenated compounds, halogens, strong acids, strong oxidizing agents

Hazardous decomposition products

Oxides of carbon

Safety Data Sheet

Material Name: WEBCOL/Curity Alcohol Prep Pads

SDS ID: COV-001

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

Not a likely route of exposure.

Skin Contact

None known.

Eye Contact

Causes serious eye irritation.

Ingestion

None known.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50

The components of this material have been reviewed in various sources and the following selected endpoints are published:

Isopropyl alcohol (67-63-0)

Oral LD50 Rat 5045 mg/kg (Safety Data Sheet)

Dermal LD50 Rabbit 12800 mg/kg (Safety Data Sheet)

Inhalation LC50 Rat 1600 ppm 4 h (Safety Data Sheet)

Immediate Effects

Causes serious eye irritation.

Delayed Effects

No information on significant adverse effects.

Irritation/Corrosivity Data

Causes serious eye irritation.

Respiratory Sensitization

No data available.

Dermal Sensitization

No data available.

Component Carcinogenicity

Isopropyl alcohol	67-63-0
ACGIH:	A4 - Not Classifiable as a Human Carcinogen
IARC:	Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977] (Group 3 (not classifiable))

Germ Cell Mutagenicity

No data available.

Reproductive Toxicity

No data available.

Safety Data Sheet

Material Name: WEBCOL/Curity Alcohol Prep Pads

SDS ID: COV-001

Specific Target Organ Toxicity - Single Exposure

No information available.

Specific Target Organ Toxicity - Repeated Exposure

No information available.

Aspiration hazard

No data available.

Medical Conditions Aggravated by Exposure

May cause eye damage, eye disorders.

Additional Data

No additional information available.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity

Avoid release to the environment.

Component Analysis - Aquatic Toxicity

Isopropyl alcohol	67-63-0
Fish:	LC50 96 h Pimephales promelas 9640 mg/L [flow-through]; LC50 96 h Pimephales promelas 11130 mg/L [static]; LC50 96 h Lepomis macrochirus >1400000 µg/L
Algae:	EC50 96 h Desmodesmus subspicatus >1000 mg/L IUCLID; EC50 72 h Desmodesmus subspicatus >1000 mg/L IUCLID
Invertebrate:	EC50 48 h Daphnia magna 13299 mg/L IUCLID

Persistence and Degradability

No information available for the product.

Bioaccumulative Potential

No information available for the product.

Mobility

No information available for the product.

Other Toxicity

No additional information available.

Section 13 - DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose in accordance with all applicable regulations.

Safety Data Sheet

Material Name: WEBCOL/Curity Alcohol Prep Pads

SDS ID: COV-001

Section 14 - TRANSPORT INFORMATION

US DOT Information:

Shipping Name: Not applicable

Hazard Class: Not applicable

UN/NA #: Not regulated per 49 CFR, Special Provision 47 (for rail and road transport in the USA)

Packing Group: Not applicable

Required Label(s): Not applicable

Additional information: No additional information available

IATA Information:

Shipping Name: Not applicable

Hazard Class: Not applicable

UN#: Not regulated, as per IATA, Special Provision A46

Packing Group: Not applicable

Required Label(s): Not applicable

Additional information: Consult current IATA regulations prior to shipping by air

IMDG Information:

Shipping Name: Not applicable

Hazard Class: Not applicable

UN#: Not regulated, as per IMDG Code, Special Provision 216

Packing Group: Not applicable

Required Label(s): Not applicable

Additional information: No additional information available

TDG Information:

Shipping Name: Not applicable

Hazard Class: Not applicable

UN#: Not regulated

Packing Group: Not applicable

Required Label(s): Not applicable

Additional information: No additional information available

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations

This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b).

Isopropyl alcohol	67-63-0
SARA 313:	1 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

Safety Data Sheet

Material Name: WEBCOL/Curity Alcohol Prep Pads

SDS ID: COV-001

Not listed under California Proposition 65

Canadian WHMIS Ingredient Disclosure List (IDL)

Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL

Isopropyl alcohol	67-63-0
	1 %

Section 16 - OTHER INFORMATION

Summary of Changes

New SDS: May 5, 2015

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR's Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH - Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States; WHMIS - Workplace Hazardous Materials Information System

Other Information

Disclaimer:

The information and recommendations in this safety data sheet are based on sources believed to be accurate as of the date of issue. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. Covidien LP makes NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED and usage of this safety data sheet shall not establish a legal, contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose. Covidien LP assumes no responsibility for injury to vendee or third party person proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, Covidien LP assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Users should ensure that any use or disposal of the material is in accordance with applicable national, country, federal, state, and local laws, directives, orders and regulations.

Science Lab

SDS

SCIENCE SDS INDEX

PRODUCT NAME	MANUFACTURER/ SUPPLIER/DISTRIBUTOR	AREA/ROOM	MSMS/ SDS
ABC Dry Chemical Fire Extinguisher	AMEREX Corporation	112	SDS
Acetic Acid, 1.66M	CAROLINA	112, 114	SDS
Acetic Acid, Glacial, 17.4M	CAROLINA	112, 114	SDS
ACETONE	CAROLINA	112, 114	SDS
ACTIVE DRY YEAST	CAROLINA	112	SDS
ALBUMIN, EGG	SCIENCELAB.COM	112, 114	MSDS
ALCOHOL, ACID, 3% IN 95%	CAROLINA	112, 114	SDS
ALCOHOL, ISOPROPYL, 99%	VI-JON	112, 114	SDS
ANILINE BLUE, SATURATED	CAROLINA	112	SDS
ANILINE BLUE, SODIUM SALT	CAROLINA	112	SDS
Aluminum Metal	CAROLINA	112, 114	SDS
APLISOL, TUBERCULIN, PURIFIED PROTEIN	JHP PHARMACEUTICALS	112	MSDS
BACTERIA	CAROLINA (CARESHEET)	112, 114	SDS
Baking Soda (see Sodium bicarbonate)	CAROLINA	112, 114	SDS
BENEDICT'S SOLUTION, QUALITATIVE	CAROLINA	112, 114	SDS
Bismuth	CAROLINA	112, 114	SDS
BIURET REAGENT	CAROLINA	112, 114	SDS
BLOOD AGAR, 5% SHEEPS BLOOD	HARDY DIAGNOSTICS	112	-
BROMOTHYMOL BLUE, FERMENTATION	CAROLINA	112, 114	SDS
Buffer Solution pH4	CAROLINA	112	SDS
Buffer Solution pH7	CAROLINA	112	SDS
Buffer Solution pH10	CAROLINA	112	SDS
Calcium Chloride, Anhydrous	CAROLINA	112, 114	SDS
Carbol Fuchsin, Ziehl-Neelsen	CAROLINA	112, 114	SDS
Carbon Rod	CAROLINA	112, 114	SDS
CAROSAFE CONCENTRATE	CAROLINA	112, 114	SDS
CATECHOL	CAROLINA	112, 114	SDS
CONGO RED 1 %	CAROLINA	112, 114	SDS
Copper, Metal	CAROLINA	112, 114	SDS
Copper (II) Sulfate, Anhydrous	CAROLINA	112, 114	SDS
COW EYE (SPECIMEN'S IN CAROLINA'S PERFECT	CAROLINA	112, 114	SDS
CRYSTAL VIOLET 1%	CAROLINA	112, 114	SDS
Cyclohexane	CAROLINA	112, 114	SDS
Cyclohexene	CAROLINA	112, 114	SDS
D-glucose, Anhydrous	CAROLINA	112, 114	SDS
DAWN LIQUID SOAP, ULTRA	PROCTOR AND GAMBLE	112, 114	MSDS
DEXTROSE	CAROLINA	112, 114	SDS
DIAL ANTIBACTERIAL SOAP	THE DIAL CORP/HENKEL COMPANY	112, 114	SDS
Ethanol, Denatured, 95%	CAROLINA	112, 114	SDS
ETHANOL, DENATURED, ABSOLUTE	CAROLINA	112, 114	SDS
FRASER BROTH BASE SUPPLEMENT	ACUMEDIA	112, 114	MSDS

SCIENCE SDS INDEX PAGE 2

PRODUCT NAME	MANUFACTURER/ SUPPLIER/DISTRIBUTOR	AREA/ROOM	MSMS/ SDS
GLYCEROL	CAROLINA	112, 114	SDS
Graphite Powder	CAROLINA	112, 114	SDS
Hydrochloric Acid, 1M	CAROLINA	112, 114	SDS
IODINE	CAROLINA	112, 114	SDS
KIDNEY (SPECIMEN'S IN CAROLINA'S PERFECT	CAROLINA	112, 114	SDS
KOVAC SOLUTION	CAROLINA	112, 114	SDS
LACTOSE	SIGMA-ALDRICH	112, 114	SDS
Lauric Acid	CAROLINA	112, 114	SDS
LEVINE EMB AGAR	HARDY DIAGNOSTICS	112	-
Lycopodium	CAROLINA	112, 114	SDS
MACCONKEY AGAR, USP	HARDY DIAGNOSTICS	112	-
MANEVAL'S MODIFIED STAIN	CAROLINA	112, 114	SDS
MANNITOL SALT AGAR	HARDY DIAGNOSTICS	112	-
METHYL RED TEST REAGENT	HARDY DIAGNOSTICS	112, 114	SDS
MR-VP BROTH	HARDY DIAGNOSTICS	112	-
NUTRIENT AGAR, PREPARED 1.5%	CAROLINA	112, 114	SDS
Paraffin Wax	CAROLINA	112, 114	SDS
pH Electrode Storage Solution	CAROLINA	112	SDS
PHENOL RED SOLUTION	SIGMA-ALDRICH	112, 114	SDS
Phenol Red, 0.04%	CAROLINA	112, 114	SDS
PHENOLPHTHALEIN, 1% IN 95% ETHANOL	CAROLINA	112, 114	SDS
PIG HEART (SPECIMEN'S IN CAROLINA'S PERFECT SOLUTION)	CAROLINA	112, 114	SDS
Potassium Bromate	CAROLINA	112	SDS
Potassium Bromide	CAROLINA	112, 114	SDS
POTASSIUM HYDROXIDE, PELLETS	CAROLINA	112, 114	SDS
Potassium Permanganate, 0.001 M	CAROLINA	112, 114	SDS
PTC TASTE TEST STRIPS	CAROLINA	112, 114	SDS
Red Food Coloring	CAROLINA	112, 114	SDS
SAFRANIN STAIN	RICHARD ALLEN/THERMO FISHER SCIENTIFIC	112, 114	SDS
Silicon	CAROLINA	112, 114	SDS
Silicon Dioxide	CAROLINA	112, 114	SDS
SIMMONS CITRATE AGAR	HARDY DIAGNOSTICS	112	SDS
SODIUM BENZOATE TASTE TEST PAPERS	CAROLINA	112, 114	SDS
Sodium Bicarbonate, 10%	CAROLINA	112, 114	SDS
Sodium Chloride	CAROLINA	112, 114	SDS
Sodium Dichromate, 0.1 M	CAROLINA	112, 114	SDS
Sodium Hydroxide	CAROLINA	112, 114	SDS
SODIUM HYDROXIDE, 0.1M	CAROLINA	112, 114	SDS
SPECIMENS IN CAROLINA'S PERFECT SOLUTION	CAROLINA	112, 114	SDS

SCIENCE SDS INDEX PAGE 3

PRODUCT NAME	MANUFACTURER/ SUPPLIER/DISTRIBUTOR	AREA/ROOM	MSMS/ SDS
STARCH, POTATO	SCIENLAB.COM	112, 114	MSDS
Sucrose	CAROLINA	112, 114	SDS
SUCROSE SOLUTION	SIGMA-ALDRICH	112	SDS
Sulfur, Lump	CAROLINA	112, 114	SDS
Sulfuric Acid, 0.5M	CAROLINA	112, 114	SDS
Sulfuric Acid, 1M	CAROLINA	112, 114	SDS
SYSTANE LUBRICANT EYE DROPS	CAROLINA	112, 114	SDS
THIOUREA TASTE TEST STRIPS	CAROLINA	112, 114	SDS
Tin Shot	CAROLINA	112, 114	SDS
TRYPTIC SOY BROTH	BD Diagnostic Systems	112	SDS
Trypticase Soy Broth w/20% Glycerol	BD Diagnostic Systems	112, 114	SDS
TSI Agar Slants	BD Diagnostic Systems	112, 114	SDS
Vinegar	Flinn Scientific	112, 114	SDS
Zinc, Metal	CAROLINA	112, 114	SDS

Safety Data Sheet

Acetone

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Acetone
Recommended Use: Science education applications
Synonyms: Dimethyl Ketone; , Ketone Propane; , 2-Propanone
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER



Highly flammable liquid and vapor. Causes serious eye irritation. Toxic to aquatic life.

GHS Classification:

Flammable Liquid Category 2, Serious Eye Damage/Eye Irritation Category 2, Hazardous to the aquatic environment - Acute Category 2

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Acetone	67-64-1	100

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Vapors may travel back to ignition source. Closed Containers exposed to heat may explode.
Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Safety Data Sheet

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

Section 7 Handling and Storage

Handling: Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

Storage: Keep container tightly closed. Store in a well-ventilated place. Keep cool. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

Section 8 Protection Information

Chemical Name	ACGIH		OSHA PEL	
	(TWA)	(STEL)	(TWA)	(STEL)
Acetone	500 ppm TWA	750 ppm STEL	1000 ppm TWA; 2400 mg/m3 TWA	N/A

Control Parameters

Engineering Measures:

No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE):

Lab coat, apron, eye wash, safety shower.

Respiratory Protection:

No respiratory protection required under normal conditions of use.

Eye Protection:

Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves:

No information available

Section 9 Physical Data

Formula: CH ₃ COCH ₃	Vapor Pressure: 233 hPa at 20 °C
Molecular Weight: 58.05	Evaporation Rate (BuAc=1): 14.4
Appearance: Liquid	Vapor Density (Air=1): 2.0
Odor: No data available	Specific Gravity: 0.787 at 25°C
Odor Threshold: No data available	Solubility in Water: Soluble
pH: No data available	Log Pow (calculated): -0.24
Melting Point: No data available	Autoignition Temperature: No data available
Boiling Point: 56 C	Decomposition Temperature: No data available
Flash Point: -20 C	Viscosity: No data available
Flammable Limits in Air: LEL: 2.6% - UEL: 12.8 %	Percent Volatile by Volume: 100%

Section 10 Reactivity Data

Reactivity: Mildly reactive - See below

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Temperatures above flash point in combination with sparks, open flames, or other sources of ignition.

Incompatible Materials: Caustics (bases), Peroxides, Strong acids, Oxidizing materials, Halogens

Hazardous Decomposition Products: Carbon dioxide, Carbon monoxide

Safety Data Sheet

Hazardous Polymerization:

Will not occur

Section 11 Toxicity Data

Routes of Entry: Inhalation, Ingestion, and Skin contact.
Symptoms (Acute): Eye disorders
Delayed Effects: Central Nervous System Disorders

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Acetone	67-64-1	Oral LD50 Mouse 3000 mg/kg	Dermal LD50 Rabbit 20000 mg/kg	Inhalation LC50 (8h) Rat 50.1 MG/L

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Acetone	67-64-1	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.
Teratogenicity: Evidence of a teratogenic effect (birth defect).
Sensitization: No evidence of a sensitization effect.
Reproductive: Evidence of negative reproductive effects.

Target Organ Effects:

Acute: Central Nervous System, Cardiovascular system
Chronic: Male Reproductive System

Section 12 Ecological Data

Overview: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility: This material is expected to have very high mobility in soil. It does not absorb to most soil types.
Persistence: No data
Bioaccumulation: Bioconcentration is not expected to occur.
Degradability: Biodegrades quickly.
Other Adverse Effects: No data

Chemical Name	CAS Number	Eco Toxicity
Acetone	67-64-1	96 HR LC50 ONCORHYNCHUS MYKISS 4.74 - 6.33 ml/l 96 HR LC50 LEPOMIS MACROCHIRUS 8300 MG/L 48 HR EC50 DAPHNIA MAGNA 12600 - 12700 MG/L

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name:	Air - IATA Proper Shipping Name:
UN number: 1090 Class: 3 Packing group: II Proper shipping name: Acetone Reportable Quantity (RQ): 5000 lbs Marine pollutant: No Poison Inhalation Hazard: No	UN number: 1090 Class: 3 Packing group: II EMS-No: F-E, S-D Proper shipping name: ACETONE

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Safety Data Sheet

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Acetone	67-64-1	No	No	5000 lb final RQ; 2270 kg final RQ	No	No

Section 16 Additional Information

Revised: 09/09/2015

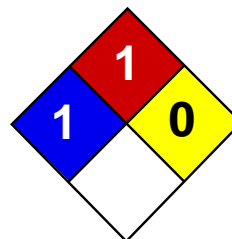
Replaces: 06/17/2015

Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health



Health	1
Fire	1
Reactivity	0
Personal Protection	A

Material Safety Data Sheet

Albumin, egg MSDS

Section 1: Chemical Product and Company Identification

Product Name: Albumin, egg

Catalog Codes: SLA1648

CAS#: 9006-59-1

RTECS: AY9384000

TSCA: TSCA 8(b) inventory: Albumin, egg

CI#: Not available.

Synonym:

Chemical Name: Not available.

Chemical Formula: Not available.

Contact Information:

Sciencelab.com, Inc.

14025 Smith Rd.

Houston, Texas 77396

US Sales: **1-800-901-7247**

International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:

1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Albumin, egg	9006-59-1	100

Toxicological Data on Ingredients: Albumin, egg LD50: Not available. LC50: Not available.

Section 3: Hazards Identification

Potential Acute Health Effects: Slightly hazardous in case of eye contact (irritant), of inhalation.

Potential Chronic Health Effects:

Slightly hazardous in case of eye contact (irritant), of inhalation. CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance is toxic to lungs. Repeated or prolonged exposure to the substance can produce target organs damage.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact:

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Serious Skin Contact: Not available.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not available.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Material in powder form, capable of creating a dust explosion.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

Section 7: Handling and Storage

Precautions:

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area.

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits: Not available.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid.

Odor: Not available.

Taste: Not available.

Molecular Weight: Not available.

Color: Not available.

pH (1% soln/water): Not available.

Boiling Point: Not available.

Melting Point: Decomposes.

Critical Temperature: Not available.

Specific Gravity: Not available.

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Not available.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Not available.

Incompatibility with various substances: Not available.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Not available.

Toxicity to Animals:

LD50: Not available. LC50: Not available.

Chronic Effects on Humans: Causes damage to the following organs: lungs.

Other Toxic Effects on Humans: Slightly hazardous in case of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans: Nuisance dust.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are more toxic.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Albumin, egg

Other Regulations: OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

Other Classifications:

WHMIS (Canada): CLASS D-2A: Material causing other toxic effects (VERY TOXIC).

DSCL (EEC):

This product is not classified according to the EU regulations.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: a

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:

Not applicable. Lab coat. Wear appropriate respirator when ventilation is inadequate. Safety glasses.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/09/2005 03:38 PM

Last Updated: 05/21/2013 12:00 PM

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ScienceLab.com has been advised of the possibility of such damages.

Section 1 Chemical Product and Company Information

80 Northwest Blvd.
Nashua, NH 03063
(800) 225-3739

CHEMTREC 24 Hour Emergency
Phone Number (800) 424-9300
For laboratory use only.
Not for drug, food or household use.

Product YEAST, INSTANT, ACTIVE, DRY

Synonyms Not available

Section 2 Hazards Identification

This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

Signal word: None required

Pictograms: No symbol required

Target organs: None known

GHS Classification: None required

GHS Label information: Hazard statement: None required

Precautionary statement: None required

Supplemental information:

Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	EINECS
Yeast, active, dry	68876-77-7	>98%	232-387-9
Contains:			
Sorbitan monostearate	1338-41-6	--	215-664-9
Ascorbic acid	50-81-7	--	200-066-2

Section 4 First Aid Measures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

Suitable Extinguishing Media: Use any media suitable for extinguishing supporting fire

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 Exposure Controls / Personal Protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Yeast	None established	None established	None established

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

Section 9 Physical & Chemical Properties

Appearance: Tan solid.	Evaporation rate (= 1): Not applicable	Partition coefficient: (n-octanol / water): Data not available
Odor: Yeast odor.	Flammability (solid/gas): Data not available.	Auto-ignition temperature: Data not available
Odor threshold: Data not available.	Explosion limits: Lower / Upper: Not applicable	Decomposition temperature: Data not available
pH: Data not available.	Vapor pressure (mm Hg): Negligible	Viscosity: Data not available.
Melting / Freezing point: Data not available	Vapor density (Air = 1): Data not available	Molecular formula: Complex natural product
Boiling point: Decomposes	Relative density (Specific gravity): 1.0 @ 20°C	Molecular weight: Complex natural product
Flash point: Not applicable	Solubility(ies): Very soluble in water.	

Section 10 Stability & Reactivity

Chemical stability: Stable **Hazardous polymerization:** Will not occur.

Conditions to avoid: Excessive temperatures.

Incompatible materials: Strong oxidizers.

Hazardous decomposition products: Oxides of carbon.

Section 11 Toxicological Information

Acute toxicity: Data not available

Skin corrosion/irritation: Data not available

Serious eye damage/irritation: Data not available

Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenicity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity: Data not available

STOT-single exposure: Data not available

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: Inhalation may cause respiratory irritation.

Ingestion: Not expected to be a health hazard.

Skin: Not expected to be a health hazard.

Eyes: Contact with eyes may cause transient irritation.

Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards..

Additional information: RTECS #: ZF6610000

Section 12 Ecological Information

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

Section 14 Transport Information

UN/NA number: Not applicable

Shipping name: Not Regulated

Hazard class: Not applicable

Packing group: Not applicable

Reportable Quantity: No

Marine pollutant: No

Exceptions: Not applicable

2012 ERG Guide #: Not applicable

Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	WHMIS Classification
Yeast	Listed	Not listed	Not listed	Listed	Not listed	Not listed

Section 16 Additional Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.

Revision Date: April 9, 2014

Supersedes: September 6, 2013

Safety Data Sheet

Acid Alcohol, 3% in 95%

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Acid Alcohol, 3% in 95%
Recommended Use: Science education applications
Synonyms: Hydrochloric Acid in Ethanol, Acid Alcohol
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER



Highly flammable liquid and vapor. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. Causes damage to organs.

GHS Classification:

Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1, Flammable Liquid Category 2, Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Acute Toxicity - Dermal Category 4

Other Safety Precautions: IF exposed: Call a POISON CENTER or doctor/physician.

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Ethanol	64-17-5	83.4
Water	7732-18-5	6.73
2-Propanol	67-63-0	4.61
Methanol	67-56-1	4.15
Hydrogen Chloride	7647-01-0	1.12

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.

Safety Data Sheet

Fire Fighting Methods and Protection:	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards:	Vapors may travel back to ignition source. Closed Containers exposed to heat may explode.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide, Hydrogen chloride

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:	No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Ventilate the contaminated area. Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation. Isolate area. Keep unnecessary personnel away. Ventilate the area by opening door and/or turning on fans and blowers. Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container.
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Section 7 Handling and Storage

Handling:	Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
Storage:	Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Suitable for any general chemical storage.
Storage Code:	Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

Section 8 Protection Information

Chemical Name	ACGIH		OSHA PEL	
	(TWA)	(STEL)	(TWA)	(STEL)
Ethanol	N/A	1000 ppm STEL	1000 ppm TWA; 1900 mg/m3 TWA	N/A
2-Propanol	200 ppm TWA	400 ppm STEL	400 ppm TWA; 980 mg/m3 TWA	N/A
Methanol	200 ppm TWA	250 ppm STEL	200 ppm TWA; 260 mg/m3 TWA	N/A
Hydrogen Chloride	N/A	2 ppm (Ceiling)	N/A	5 ppm (Ceiling)

Control Parameters	
Engineering Measures:	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.
Personal Protective Equipment (PPE):	Lab coat, apron, eye wash, safety shower.
Respiratory Protection:	Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.
Respirator Type(s):	None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.
Skin Protection:	Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work
Gloves:	Nitrile

Section 9 Physical Data

Formula: No data available	Vapor Pressure: No data available
Molecular Weight: No data available	Evaporation Rate (BuAc=1): No data available
Appearance: Colorless Liquid	Vapor Density (Air=1): No data available

Safety Data Sheet

Odor: Moderate Alcohol Odor
Odor Threshold: No data available
pH: No data available
Melting Point: No data available -114 C
Boiling Point: Estimated 79 C 79 C
Flash Point: Estimated 17 C 17 C
Flammable Limits in Air: 3.3 - 19.0% (for 100% ethanol)

Specific Gravity: 0.8
Solubility in Water: Soluble
Log Pow (calculated): -0.3 (est) -0.32
Autoignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available
Percent Volatile by Volume: 92%

Section 10

Reactivity Data

Reactivity: Not generally reactive under normal conditions.
Chemical Stability: Stable under normal conditions.
Conditions to Avoid: Temperatures above flash point in combination with sparks, open flames, or other sources of ignition. Reaction with water is exothermic.
Incompatible Materials: Organic Peroxides, Strong acids, Oxidizing materials, Water-reactive materials, Water, Caustics (bases), Acetic anhydride, Amines, Alkanolamines, Isocyanates, Copper, Metals
Hazardous Decomposition Products: Hydrogen chloride, Carbon dioxide, Carbon monoxide
Hazardous Polymerization: Will not occur

Section 11

Toxicity Data

Routes of Entry: Inhalation, ingestion, eye or skin contact.
Symptoms (Acute): Respiratory Irritation, Dermatitis, Central Nervous System Depression, Dizziness, Respiratory disorders, Eye disorders
Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Water	7732-18-5	Oral LD50 Rat 90000 mg/kg		
2-Propanol	67-63-0	Oral LD50 Rat 5045 mg/kg Oral LD50 Mouse 3600 mg/kg		INHALATION LC50 Rat 16000 ppm
Methanol	67-56-1	Oral LD50 Mouse 7300 mg/kg		INHALATION LC50 Rat 64000 ppm
Hydrogen Chloride	7647-01-0	Oral LD50 Rabbit 900 mg/kg		INHALATION LC50 Rat 3700 ppm INHALATION LC50 Mouse 1108 ppm INHALATION LC50 Rat 45000 MG/M3 INHALATION LC50 Rat 8300 MG/M3

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Ethanol	64-17-5	Listed	Listed	Listed
2-Propanol	67-63-0	Listed	Not listed	Not listed
Methanol	67-56-1	Not listed	Not listed	Not listed
Hydrogen Chloride	7647-01-0	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.
Teratogenicity: No evidence of a teratogenic effect (birth defect).
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: Central Nervous System, Eyes, No information available

Safety Data Sheet

Chronic: No information available, Eyes

Section 12 Ecological Data

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife.
Mobility: This material is expected to have moderate mobility in soil. It absorbs to most soil types.
Persistence: Biodegradation, Dissolved into water
Bioaccumulation: Bioconcentration is not expected to occur.
Degradability: Biodegrades quickly.
Other Adverse Effects: No data

Chemical Name	CAS Number	Eco Toxicity
Ethanol	64-17-5	96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 2 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 10800 MG/L 48 HR LC50 DAPHNIA MAGNA 9268 - 14221 MG/L
Water	7732-18-5	No data available
2-Propanol	67-63-0	96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 µG/L 96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 13299 MG/L 72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L 96 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L
Methanol	67-56-1	96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]
Hydrogen Chloride	7647-01-0	96 HR LC50 GAMBUSIA AFFINIS 282 MG/L [STATIC]

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): If discarded, this product is considered a RCRA ignitable waste, D001.

Section 14 Transport Information

Ground - DOT Proper Shipping Name:	Air - IATA Proper Shipping Name:
UN2924 Flammable Liquid, Corrosive, N.O.S.(Ethanol, Hydrochloric Acid) Class 3 (8) P.G. II	UN2924 Flammable Liquid, Corrosive, N.O.S.(Ethanol, Hydrochloric Acid) Class 3 (8) P.G. II

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Ethanol	64-17-5	No	No	No	No	No
2-Propanol	67-63-0	No	No	No	No	No
Methanol	67-56-1	No	No	No	No	No
Hydrogen Chloride	7647-01-0	No	No	No	No	No

California Prop 65: WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

Section 16 Additional Information

Revised: 10/20/2015

Replaces: 10/20/2015

Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Safety Data Sheet

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health



VI-JON[®] Safety Data Sheet

for Health and Beauty Products

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name: Isopropyl Alcohol 99%
Item Number: 883AA

Other means of identification

Synonyms: None

Recommended use of the chemical and restrictions on use

Recommended Use: First Aid
Uses advised against: No information available

Details of the supplier of the safety data sheet

Supplier Address

Vi-Jon Inc.
8515 Page Avenue
Saint Louis
MO
63114
US
Phone:18004249300
Fax:3144271010
Contact:Paula Korman
Email:pkorman@vijon.com
Contact Phone3145921474

Emergency telephone number Chemtrec: 1-800-424-9300 (24-Hour)

2. HAZARDS IDENTIFICATION FOR INDUSTRIAL SETTING


Classification

This product contains a chemical or chemicals considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).

Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable liquids	Category 3

GHS Label elements, including precautionary statements

Emergency Overview

Signal word		Warning
	Hazard statements May cause drowsiness or dizziness Causes eye irritation Flammable liquid and vapor	
		
Appearance Clear, Colorless, Water thin liquid	Physical State Water thin liquid	Odor Alcohol

Precautionary Statements - Prevention

Wear protective gloves/protective clothing/eye protection/face protection
Avoid breathing fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting/equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Keep cool

Precautionary Statements - Response

Specific treatment (see supplemental first aid instructions on this label)

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Call a POISON CENTER or doctor/physician if you feel unwell.

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC)

Not Applicable

Unknown Toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

Other information

May be harmful if swallowed

May be harmful if inhaled

Prolonged or repeated contact may dry skin and cause irritation

Interactions with Other Chemicals

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
Isopropyl Alcohol 99% by volume	67-63-0	50-100	*
Water	7732-18-5	0-10	*

* The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

Eye Contact

In case of contact with substance, immediately flush skin or eyes with running water for at least 20 minutes.

Skin Contact

In the case of skin irritation or allergic reactions see a physician.

Inhalation

Move victim to fresh air. Apply artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult.

Ingestion

Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.

Protection of First-aiders

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects

Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Indication of any immediate medical attention and special treatment needed

Notes to Physician

Keep victim warm and quiet. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Dry chemical, CO₂, water spray, fog or alcohol-resistant foam.

Unsuitable Extinguishing Media

CAUTION: This product has a very low flash point. Use of water spray when fighting fire may be inefficient. Do not use straight streams.

Specific Hazards Arising from the Chemical

Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard.

Uniform Fire Code

Flammable Liquid: I-B
Irritant: Liquid

Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No

Sensitivity to Static Discharge Yes

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Move containers from fire area if you can do it without risk.

6. ACCIDENTAL RELEASE MEASURES FOR INDUSTRIAL SETTING

Personal precautions, protective equipment and emergency procedures

Personal Precautions

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Stop leak if you can do it without risk.

Other Information

Water spray may reduce vapor; but may not prevent ignition in closed spaces.

Environmental precautions

Environmental Precautions

Prevent entry into waterways, sewers, basements or confined areas.

Methods and material for containment and cleaning up

Methods for Containment

A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Methods for Cleaning Up

Soak up with inert absorbent material. Use clean non-sparking tools to collect absorbed material and transfer to properly labeled containers. Keep in suitable and closed containers for disposal.

7. HANDLING AND STORAGE FOR INDUSTRIAL SETTING

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Keep away from heat, sparks and open flame. No smoking.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers

Incompatible Products Strong oxidizing agents. Acids. Chlorinated compounds.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION FOR INDUSTRIAL SETTING

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Isopropyl Alcohol 67-63-0	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m ³ (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m ³ (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m ³	IDLH: 2000 ppm 10% LEL TWA: 980 mg/m ³ TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m ³

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992). See section 15 for national exposure control parameters.

Appropriate engineering controls

Engineering Measures Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection Tightly fitting safety goggles.

Skin and Body Protection Wear protective gloves/clothing. Long sleeved clothing. Chemical resistant apron. Impervious gloves. Antistatic boots

Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Provide regular cleaning of equipment, work area and clothing. Wash hands before breaks and immediately after handling the product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State	Water thin liquid	Odor	Alcohol
Appearance	Clear, Colorless, Water thin liquid	Odor Threshold	No information available
Color	No information available		
Property	Values	Remarks/ Method	
pH	No data available	None known	
Melting/freezing point	No data available	None known	
Boiling Point/Range	No data available	None known	
Flash Point	-11C / 12F	None known	
Evaporation rate	No data available	None known	
Flammability (solid, gas)	No data available	None known	
Flammability Limits in Air			
Upper flammability limit	No data available		
Lower flammability limit	No data available		
Vapor pressure	No data available	None known	
Vapor density	No data available	None known	
Specific Gravity	No data available	None known	
Water Solubility	Miscible with water	None known	
Solubility in other solvents	No data available	None known	
Partition coefficient: n-octanol/water		None known	
Autoignition temperature	No data available	None known	
Decomposition temperature	No data available	None known	
Kinematic viscosity	No data available	None known	
Dynamic viscosity		None known	
Explosive Properties	No data available		
Oxidizing Properties	No data available		
Other Information			
Softening Point	No data available		
VOC Content (%)	No data available		

10. STABILITY AND REACTIVITY FOR INDUSTRIAL SETTING

Reactivity

No data available.

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials

Strong oxidizing agents. Acids. Chlorinated compounds.

Hazardous Decomposition Products

Carbon oxides.

When used in accordance with the directions.

11. TOXICOLOGICAL INFORMATION FOR INDUSTRIAL SETTING

There is no data for this product. The information included in this section describes the potential hazards of the individual ingredients.

Information on likely routes of exposure

Product Information

Inhalation	May cause drowsiness and dizziness.
Eye Contact	Irritating to eyes.
Skin Contact	There is no data available for this product.
Ingestion	There is no data available for this product.

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropyl Alcohol 67-63-0	= 4396 mg/kg (Rat)	= 12800 mg/kg (Rabbit)	= 16000 ppm (Rat) 8 h

Information on toxicological effects

Symptoms Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Isopropyl Alcohol 67-63-0		Group 3		X

*IARC: (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to Carcinogenicity in Humans
OSHA: (Occupational Safety & Health Administration)
X - Present*

Reproductive Toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Chronic Toxicity	No known effect based on information supplied.
Target Organ Effects	Eyes. Respiratory system. Skin. Central nervous system (CNS).
Aspiration Hazard	No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)

4,440.00 mg/kg

ATEmix (dermal)

12,929.00 mg/kg (ATE)

ATEmix (inhalation-dust/mist)

16,162.00ATEmix

12. ECOLOGICAL INFORMATION FOR INDUSTRIAL SETTING

There is no ecological data on the Product. The Product ingredients are expected to be safe for the environment at concentrations predicted under normal use and accidental spill scenarios. Packaging components are compatible with the conventional solid waste management practices.

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Other Adverse Effects

No information available.

13. DISPOSAL CONSIDERATIONS FOR INDUSTRIAL SETTING

Waste treatment methods

Waste Disposal Methods This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261).

Contaminated Packaging Dispose of in accordance with local regulations.

US EPA Waste Number D001

California Hazardous Waste Codes 212

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Isopropyl Alcohol 67-63-0	Toxic Ignitable

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name CONSUMER COMMODITY
Hazard Class ORM-D
Subsidiary Class
Description CONSUMER COMMODITY, ORM-D
Emergency Response Guide Number 129

TDG

UN-No UN1219
Proper Shipping Name ISOPROPANOL
Hazard Class 3
Packing Group II
Description UN1219, ISOPROPANOL, 3, II

MEX

UN-No UN1219
Proper Shipping Name ISOPROPANOL
Hazard Class 3
Packing Group II
Description UN1219 ISOPROPANOL, 3, II

ICAO

UN-No UN1219
Proper Shipping Name ISOPROPANOL
Hazard Class 3
Packing Group II
Description UN1219, ISOPROPANOL, 3, II

IATA

UN-No UN1219
Proper Shipping Name ISOPROPANOL

Product Number: 883AA
Issuing Date: March 4, 2014

Revision Date: None

Product Name: Isopropyl Alcohol 99%
Revision Number: 0

15. REGULATORY INFORMATION FOR INDUSTRIAL SETTING

International Inventories

TSCA Exempt
DSL All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Isopropyl Alcohol - 67-63-0	67-63-0	50-100	1.0

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any ingredients regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any ingredients regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

U.S. State Regulations

California Proposition 65 - NONE

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Isopropyl Alcohol 67-63-0	X	X	X	X	

International Regulations

Mexico - Grade No information available.

National occupational exposure limits

Chemical Name	Carcinogen Status	Exposure Limits
Isopropyl Alcohol		Mexico: TWA 400 ppm Mexico: TWA 980 mg/m ³ Mexico: STEL 500 ppm Mexico: STEL 1225 mg/m ³

Canada

WHMIS Hazard Class

B2
D2B



Product Number: 883AA
Issuing Date: March 4, 2014

Revision Date: None

Product Name: Isopropyl Alcohol 99%
Revision Number: 0

16. OTHER INFORMATION

NFPA	Health Hazard 2	Flammability 3	Instability 0	Physical and Chemical Hazards - None
HMIS	Health Hazard 2	Flammability 3	Physical Hazard 0	Personal Protection X

Prepared By WERCS Professional Services, LLC
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

Issuing Date March 4, 2014

Revision Date None

Revision Note None

General Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Approved and Updated by Vi-Jon, Inc.

Disclaimer:

The information and recommendations contained in the Material Safety Data Sheet (MSDS) are supplied pursuant to 29 CFR 1910.1200 of the Occupational Safety and Health Standards Hazard Communication Rule. The information and recommendations set forth herein are presented in good faith and believed to be correct as of this date hereof.

Vi-Jon, however, makes no representation as to the completeness or accuracy thereof, and information is supplied upon the express condition that the persons receiving the information will be required to make their own determination as to its suitability for their purposes prior to use. In no event will Vi-Jon be responsible for any damages of any nature whatsoever resulting from the use of, reliance upon, or the misuse of this information.

No representations or warranties, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, are made hereunder with respect to information or the product to which the information refers. The information as supplied herein is simply to be informative and intended solely to alert the user of the substance which is the subject matter of this MSDS. The ultimate compliance with federal, state or local regulations concerning the use of this compound, or compliance with respect to product liability, rests solely upon the purchaser thereof.

End of Safety Data Sheet

Safety Data Sheet

Aniline Blue, Saturated

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Aniline Blue, Saturated
Recommended Use: Science education applications
Synonyms: N/A
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING



Causes skin irritation. Causes serious eye irritation.

GHS Classification:

Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	95
Aniline Blue, Sodium Salt	28631-66-5	5

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: N/A
Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Ventilate the contaminated area.

Safety Data Sheet

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Dispose of contents/container in accordance with local/regional/national/international regulation for hazardous wastes.

Section 7 Handling and Storage

Handling: Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Harmful if swallowed.
Storage: Keep container tightly closed in a cool, well-ventilated place.
Storage Code: Suitable for any general chemical storage.
Green - general chemical storage

Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Aniline Blue, Sodium Salt	N/A	N/A	N/A	N/A

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Respirator Type(s): None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: Nitrile

Section 9 Physical Data

Formula: C ₃₂ H ₂₅ N ₃ Na ₂ O ₉ S ₃ (Aniline Blue)	Vapor Pressure: Approximately 17.5 mmHg 20 °C
Molecular Weight: N/A	Evaporation Rate (BuAc=1): Approximately 1
Appearance: Colorless Powder	Vapor Density (Air=1): Approximately 0.7
Odor: None	Specific Gravity: N/A
Odor Threshold: No data available	Solubility in Water: Soluble
pH: No data available	Log Pow (calculated): No data available
Melting Point: No data available	Autoignition Temperature: No data available
Boiling Point: 100 C	Decomposition Temperature: No data available
Flash Point: No data available	Viscosity: No data available
Flammable Limits in Air: N/A	Percent Volatile by Volume: N/A

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Exposure to light.

Incompatible Materials: Water-reactive materials, Strong oxidizing agents, Strong reducing agents

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry: Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): N/A

Delayed Effects: No data available

Safety Data Sheet

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Water	7732-18-5	Oral LD50 Rat 90000 mg/kg		
Aniline Blue, Sodium Salt	28631-66-5			

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Aniline Blue, Sodium Salt	28631-66-5	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity:	No evidence of a mutagenic effect.
Teratogenicity:	No evidence of a teratogenic effect (birth defect).
Sensitization:	No evidence of a sensitization effect.
Reproductive:	No evidence of negative reproductive effects.
Target Organ Effects:	
Acute:	See Section 2
Chronic:	Not listed as a carcinogen by IARC, NTP or OSHA., To the best of our knowledge, the toxicological properties of this mixture have not been thoroughly evaluated.

Section 12

Ecological Data

Overview:	This material is not expected to be harmful to the ecology.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	No data
Other Adverse Effects:	No data

Chemical Name	CAS Number	Eco Toxicity
Water	7732-18-5	No data available
Aniline Blue, Sodium Salt	28631-66-5	Not available

Section 13

Disposal Information

Disposal Methods:	Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s):	Not Determined

Section 14

Transport Information

Ground - DOT Proper Shipping Name: Not Regulated for Transport	Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.
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Section 15

Regulatory Information

TSCA Status:	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Aniline Blue, Sodium Salt	28631-66-5	No	No	No	No	No

Section 16

Additional Information

Revised: 09/09/2015 **Replaces: 09/03/2014** **Printed: 10-29-2015**

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

Safety Data Sheet

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

Safety Data Sheet

Aniline Blue, Sodium Salt

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Aniline Blue, Sodium Salt
Recommended Use: Science education applications
Synonyms: C.I. 42755, Acid Blue 22
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING



Not a dangerous substance according to GHS classification criteria. No known OSHA hazards. May cause irritation to respiratory tract.

GHS Classification:

Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3

Acute Toxicity Oral Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Dermal Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Gas Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Vapor Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Dust/Mist Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Aniline Blue, Sodium Salt	28631-66-5	100

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.
Fire Fighting Methods and Protection: Noncombustible
Non flammable
Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Safety Data Sheet

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7 Handling and Storage

Handling: Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid creating and inhaling dust. Avoid contact with skin and eyes.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

Section 8 Protection Information

<u>Chemical Name</u>	<u>(TWA)</u>	<u>ACGIH</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>OSHA PEL</u>	<u>(STEL)</u>
Aniline Blue, Sodium Salt	N/A		N/A	N/A		N/A

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 11. A respirator is not normally required.

Respirator Type(s): None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: No information available

Section 9 Physical Data

Formula: C₃₂H₂₅N₃Na₂O₉S₃
Molecular Weight: 737.73
Appearance: Red-brown Powder
Solid
Odor: None
Odor Threshold: No data available
pH: No data available
Melting Point: No data available
Boiling Point: No data available
Flash Point: No data available
Flammable Limits in Air: No data available

Vapor Pressure: No data available
Evaporation Rate (BuAc=1): No data available
Vapor Density (Air=1): No data available
Specific Gravity: No data available
Solubility in Water: Soluble
Log Pow (calculated): -1.84 (est)
Autoignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available
Percent Volatile by Volume: No data available

Safety Data Sheet

Section 10

Reactivity Data

Reactivity: Not generally reactive under normal conditions.
Chemical Stability: Stable under normal conditions.
Conditions to Avoid: Exposure to light.
Incompatible Materials: Strong oxidizing agents, Strong reducing agents
Hazardous Polymerization: Will not occur

Section 11

Toxicity Data

Routes of Entry: Inhalation, ingestion, eye or skin contact.
Symptoms (Acute): No data available
Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Aniline Blue, Sodium Salt	28631-66-5	Not determined	Not determined	Not determined

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Aniline Blue, Sodium Salt	28631-66-5	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.
Teratogenicity: No evidence of a teratogenic effect (birth defect).
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: No information available
Chronic: No information available

Section 12

Ecological Data

Overview: This material is not expected to be harmful to the ecology.
Mobility: This material is expected to have high mobility in soil. It absorbs weakly to most soil types.
Persistence: No data
Bioaccumulation: Bioconcentration is not expected to occur.
Degradability: Biodegrades at a moderate rate.
Other Adverse Effects: No data

Chemical Name	CAS Number	Eco Toxicity
Aniline Blue, Sodium Salt	28631-66-5	Not available

Section 13

Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): Not Determined

Section 14

Transport Information

Ground - DOT Proper Shipping Name: Not regulated for transport by US DOT.
Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

Section 15

Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Safety Data Sheet

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Aniline Blue, Sodium Salt	28631-66-5	No	No	No	No	No

Section 16

Additional Information

Revised: 09/09/2015

Replaces: 09/03/2014

Printed: 10-29-2015

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Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health



MATERIAL SAFETY DATA SHEET

While we believe the information provided herein is accurate and current, JHP Pharmaceuticals makes no representation or warranties, either explained or implied, and assume no responsibility for any damage or injuries of any kind, which may result from use or reliance upon this information.

SECTION 1 MATERIAL IDENTIFICATION

PRODUCT NAME: Aplisol[®] (Tuberculin Purified Protein Derivative, diluted) **DATE OF ISSUE:** 3/26/08

FORMULA: Solution **SUPERCEDES:** NA **REVISION:** 1.0
SYNONYMS: Tuberculin PPD, diluted

NDC #: 42023-104-01 Aplisol[®] (Tuberculin Purified Protein Derivative, diluted) 5TU/0.1mL, 1mL MDV
42023-104-05 Aplisol[®] (Tuberculin Purified Protein Derivative, diluted) 5TU/0.1mL, 5mL MDV

MANUFACTURING DIVISION: **ADDRESS:** **PHONE :**
JHP Pharmaceuticals, LLC. 870 Parkdale Road Emergency: 248-656-5400
Rochester, MI 48307 Medical Affairs: 866-923-2474

SECTION 2 INGREDIENT (S)

CAS #: Not Assigned **INGREDIENT NAME:** Tuberculin PPD

EXPOSURE LIMITS/ GUIDELINES: No occupational exposure limits established.
OSHA PEL: ND
ACGIH TLV: ND
OTHER: ND
LISTED AS CARCINOGEN: No

SECTION 3 HAZARD IDENTIFICATION

MAJOR HEALTH HAZARD: No significant target effects reported.

POTENTIAL HEALTH EFFECTS:

INHALATION:
SHORT TERM EXPOSURE: No information on significant adverse effects.
LONG TERM EXPOSURE: No information on significant adverse effects.

SKIN CONTACT:
SHORT TERM EXPOSURE: Allergic reactions.
LONG TERM EXPOSURE: Allergic reactions.

SECTION 3**HAZARD IDENTIFICATION cont.****EYE CONTACT:**

SHORT TERM EXPOSURE: No information on significant adverse effects.

LONG TERM EXPOSURE: No information on significant adverse effects.

INGESTION:

SHORT TERM EXPOSURE: No information on significant adverse effects.

LONG TERM EXPOSURE: No information on significant adverse effects.

SECTION 4**FIRST AID INFORMATION**

THERAPEUTIC CLASS: Diagnostic Agent

EYES: Flush eyes with plenty of water for at least 15 minutes. Get immediate medical attention.

SKIN: Wash exposed skin with soap and water for at least 15 minutes while removing contaminated clothes and shoes. Get medical attention. Thoroughly clean and dry contaminated clothing and shoes before reuse.

INHALATION: If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

INGESTION: If large amount is swallowed, get medical attention.

SECTION 5**FIRE AND EXPLOSION DATA**

FLASH POINT AND METHOD: >200°F (>93.3°C)

FLAMMABILITY CLASS (OSHA): III B

EXTINGUISHING MEDIUM: Carbon dioxide, regular dry chemical, regular foam, water.

SPECIAL FIRE PROCEDURES: Move container from fire area if it can be done without risk. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas.

HAZARDOUS DECOMPOSITION OR COMBUSTION PRODUCTS: Thermal decomposition products or combustion: oxides of carbon.

FIRE HAZARDS: Slight

EXPLOSION HAZARDS: Slight

SECTION 6**ACCIDENTAL RELEASE MEASURES****ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:**

Stop leak if possible without personal risk. Small Spills: Absorb with sand or other non-combustible material. Collect spilled material in appropriate container for disposal.

SECTION 7**HANDLING AND STORAGE**

STORAGE: Store and handle in accordance with all current regulations and standards. Store between 2°C and 8°C. Avoid contact with light. See original container for storage recommendations. Keep separated from incompatible substances.

SECTION 8**SPECIAL PROTECTION INFORMATION**

VENTILATION: Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

EYE PROTECTION: Wear splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

CLOTHING: Wear appropriate chemical resistant clothing.

GLOVES: Wear appropriate chemical resistant gloves.

RESPIRATOR: Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Respiratory protection is ranked in order from minimum to maximum. Consider warning properties before use.

Any chemical cartridge respirator with organic vapor cartridges(s)

Any chemical cartridge respirator with a full face piece and organic vapor cartridge(s).

Any air-purifying respirator with a full face piece and organic vapor canister

For Unknown Concentrations or Immediately Dangerous to Life or Health-

Any supplied-air respirator with full face piece and operated in a pressure-demand or other positive –pressure mode in combination with a separate escape supply.

Any self-contained breathing apparatus with a full face piece.

SECTION 9**PHYSICAL AND CHEMICAL DATA**

PHYSICAL STATE: Liquid

APPEARANCE: Clear

CHARACTERISTIC ODOR: NA

SPECIFIC GRAVITY: NA

SOLUBILITY:

pH: NA

WATER: Soluble

SECTION 10**STABILITY AND REACTIVITY**

REACTIVITY: Stable at normal temperature and pressure

CONDITIONS TO AVOID: Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

INCOMPATIBLES: Oxidizing materials.

POLYMERIZATION: Will not polymerize.

SECTION 11**TOXICOLOGY****TOXICITY INFORMATION:**

The following information pertains to the ingredient(s) individually and not to the product as marked. Included will be any data which emphasize the potential effects that may occur with the occupational handling (by inhalation or by dermal or by ocular contact) of this product.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Allergic reactions.

ADDITIONAL DATA: This product may be administered intradermally as an aid in the detection of infection with Mycobacterium tuberculosis. An inflammatory response in the skin with redness and swelling may occur at the injection site. Highly sensitive individuals may experience blistering, ulceration and necrosis.

(Refer to package insert for further information)

SECTION 12**ECOLOGICAL INFORMATION**

Not available

SECTION 13**DISPOSAL**

Dispose in accordance with all applicable regulations.

SECTION 14**TRANSPORTATION****SHIPPING REQUIREMENTS AND LIMITATIONS**

PROPER SHIPPING NAME: NA **ID/UN NUMBER:** NA **CONTAINER SPECIFICATION:** NA

HAZARD CLASS: NA **LABEL:** NA **PACKAGING GROUP:** NA

SHIPPING LIMITATIONS: NA **MARKING:** NA **OTHER COMMENTS:** NA

U.S REGULATIONS:**CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):** Not regulated.**SARA TITLE III SECTIONS 302/304 EXTREMELY HAZARDOUS SUBSTANCES:** Not regulated.**SARA TITLE III SECTIONS 311/312 HAZARDOUS CATEGORIES:** Not regulated.

ACUTE: No

CHRONIC: No

FIRE: No

REACTIVE: No

SUDDEN RELEASE: No

SARA TITLE II SECTION 313: Not regulated.**OSHA PROCESS SAFETY:** Not regulated.**STATE REGULATIONS:****California Proposition 65:** Not regulated**NATIONAL INVENTORY STATUS:****U.S. INVENTORY (TSCA):** This product is exempt.**TSCA 12(b) EXPORT NOTIFICATION:** Not listed.

NA – NOT APPLICABLE**ND – NO DATA FOUND**

The information provided in this Material Safety Data Sheet has been compiled from our experience and the data presented in various technical publications. It is the user's responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary. We reserve the right to revise the Material Safety Data Sheets from time to time as new information becomes available. The user has the responsibility to contact the company to make sure the sheet is the latest one issued.

Bacteria

Carolina™ CareSheet

Caution

This care sheet provides general information only for handling Carolina™ bacterial cultures. When you work with bacteria, it is imperative that you use sterile techniques at all times. Failing to use sterile techniques can contaminate cultures and work areas, and cause health and safety risks. See our *Carolina™ Techniques for Studying Bacteria and Fungi Manual* (item #154664) for descriptions of sterile techniques and standard practices for handling bacterial cultures.

Immediate care and handling

When your bacterial cultures arrive, immediately open the shipping container and remove the cultures. We ship cultures in tubes, plates, and as MicroKwik Culture® freeze-dried cells. Visually inspect each culture. Ensure that tubes are intact with caps securely in place, plates have no cracks and lids are secured by tape, and plastic bags containing MicroKwik Culture® cells are securely closed with the enclosed tube and vial intact.

You must seal any culture damaged during shipment—and anything it contaminated—in an autoclavable bag, and then sterilize it by autoclaving or soaking all contaminated materials in disinfectant. **Note:** *Never discard a damaged, unsterilized culture in the trash. Know and follow your school or district's guidelines for proper disposal. Contact our Customer Service at 800.334.5551 for a replacement of your damaged culture. It will help to have your order number available when you call.*

Hold most cultures at room temperature, 20 to 22° C (68 to 73° F). For tube cultures, loosen the cap and keep the culture tube upright in a test tube rack or beaker. For best results, use cultures within 3 to 5 days of receipt; however, most bacterial cultures remain usable for up to 4 weeks when held at room temperature. Keep in mind that Carolina provides a variety of bacterial cultures and some have very specific care and handling needs that differ from these general guidelines. *Vibrio fischeri*, for example, must be kept in the dark and subcultured 2 to 3 times per week to maintain bioluminescence.

Maintaining and culturing

Eventually your bacterial culture will deplete the nutrients of the medium in or on which it is growing and will need subculturing. Before working with bacterial cultures, wash your hands with soap and water, ensure that the work area is draft free, and wipe the work surface with 70% alcohol or similar disinfectant. **Note:** *Always check the culture for signs of contamination immediately prior to using. Never work in an area where food is prepared or consumed.*

Transfer broth cultures to fresh broth using a sterile pipet or loop or streak onto agar using a sterile inoculating loop. For faster growth, you can incubate most cultures at 25 to 30° C (77 to 86° F). After making the transfers, clean the work area with disinfectant and wash your hands again. Either autoclave the old stock cultures and glassware, or cover them with disinfectant overnight. We recommend the use of Clavies® Autoclavable Bags (item #831642) for disposal.

Biosafety

In the US the CDC (Centers for Disease Control) sets standards for the safe handling of microorganisms according to their Biosafety Level (BSL). There are 4 Biosafety Levels with BSL-1 being the lowest risk microorganisms and BSL-4 being the highest risk. Bacterial cultures provided by Carolina Biological Supply Company fall into BSL-1 and BSL-2. Our catalog and online listings identify BSL-2 bacterial cultures as pathogens. They are only available as MicroKwik Culture® freeze-dried cells, and we can only ship them to colleges and universities. Cultures not identified in our listings as pathogens are BSL-1.

The CDC standards for working with BSL-1 microorganisms include the following:

- Follow all standard microbiological practices.
- Work can be performed on an open lab bench or table.
- Wear personal protective equipment (PPE), i.e., lab coats, gloves, and eye protection, as needed.
- A sink for hand washing.
- Doors that separate the lab room from the rest of the facility.

For working with BSL-2 microorganisms the CDC recommends all of the above, plus the following:

- Restricted access to the lab room while cultures are being used.
- PPE to include face shields as needed.
- All procedures that can produce a splash or an aerosol must be performed within a biological safety cabinet.
- An autoclave or other method of decontamination for proper disposal.
- Self-closing doors that separate the lab room from the rest of the facility.
- An eyewash station.

For a fuller discussion of CDC criteria for handling microorganisms see the following link: http://www.cdc.gov/biosafety/publications/bmbl5/bmbl5_sect_iv.pdf.

FAQs

Which agar should I use for my bacterial cultures?

In Carolina's print and online catalogs, the product descriptions for our bacterial cultures include the type of nutrient medium that we use for each culture. This information also appears on the label affixed to the culture. A wide range of bacteria will grow on Nutrient Agar (item #821862) and Tryptic Soy Agar (item #822022).

Can I pour my own plates if I don't have an autoclave?

See our Nutrient Agar Bottle (item #776360) and other prepared media bottles. A bottle containing 125 mL of medium will pour 4 to 5 standard 100 × 15-mm plates. Watch our "How to Melt and Pour Agar Plates" video (at www.carolina.com) for a demonstration of the technique.

Should I order a tube, plate, or MicroKwik Culture®?

Tube cultures are best for stock. A tube culture is often streaked on a plate and incubated before lab use. Order a plate culture for convenience and immediate use. You can receive a plate culture and use it in a lab on the same day. A MicroKwik Culture® is best used for longer-term storage and to receive a culture of a pathogen. A MicroKwik Culture® can be held at room temperature for up to 2 months before being activated or for 6 to 8 months refrigerated.

Which cultures should I order for antibiotic testing?

Gram-positive and Gram-negative bacteria often give different results when tested against the same antibiotic. For that reason, we recommend testing against *Bacillus cereus* (item #154872), which is Gram-positive, and *Escherichia coli* (item #155068), which is Gram-negative. We recommend broth cultures because this makes it easier to spread the culture over the surface of an agar plate. See our Carolina BioKits®: Antibiotic Sensitivity kit (item #154740) for more information.

You recommend holding a culture at room temperature, but the recommended temperature for *Escherichia coli* (item #155065) is given in your catalog as 37° C. Why is that?

Thirty-seven degrees C is the incubation temperature, the temperature needed for maximum culture growth. The culture is mature when we ship it out and does not need further incubation. Maintaining the culture at room temperature allows you to hold it longer before use.

Problems?

We hope not, but if so, contact us. We want you to have a good experience.

Orders and replacements: 800.334.5551, then select Customer Service.

Technical support and questions: caresheets@carolina.com



World-Class Support for Science & Math

www.carolina.com

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Safety Data Sheet

Benedict's Solution, Qualitative

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Benedict's Solution, Qualitative

Recommended Use: Science education applications

Synonyms: None known.

Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING



Harmful if inhaled. Harmful to aquatic life.

GHS Classification:

Hazardous to the aquatic environment - Acute Category 3, Acute Toxicity - Inhalation Vapor Category 4

Acute Toxicity Oral Contains	15.1 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Dermal Contains	25.3 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Vapor Contains	25.3 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Dust/Mist Contains	16.6 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	74.7
Sodium Citrate, Dihydrate	6132-04-3	15.1
Sodium Carbonate, Anhydrous	497-19-8	8.7
Copper (II) Sulfate, 5-Hydrate	7758-99-8	1.5

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Safety Data Sheet

Fire and/or Explosion Hazards:
Hazardous Combustion Products:

Fire or excessive heat may produce hazardous decomposition products.
Carbon dioxide, Carbon monoxide

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

No health effects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

Handling and Storage

Handling: Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Avoid contact with skin and eyes. Keep away from oxidizing materials and strong acids. Avoid contact with clothing. Do not breathe gas/fumes/vapor/spray. Harmful if swallowed. After contact with skin, wash immediately with plenty of water.

Storage: Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

Section 8

Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Sodium Citrate, Dihydrate	N/A	N/A	N/A	N/A
Sodium Carbonate, Anhydrous	N/A	N/A	N/A	N/A
Copper (II) Sulfate, 5-Hydrate	1 mg/m ³ TWA (dust and mist, as Cu)	N/A	N/A	N/A

Control Parameters

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Respirator Type(s): None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: No information available

Section 9

Physical Data

Formula: See Section 3
Molecular Weight: No data available
Appearance: Blue Liquid
Odor: None
Odor Threshold: No data available

Vapor Pressure: No data available
Evaporation Rate (BuAc=1): No data available
Vapor Density (Air=1): No data available
Specific Gravity: No data available
Solubility in Water: Soluble

Safety Data Sheet

pH: No data available
Melting Point: No data available
Boiling Point: Estimated 100 C 100 C
Flash Point: No data available
Flammable Limits in Air: No data available

Log Pow (calculated): No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: 10
Percent Volatile by Volume: No data available

Section 10

Reactivity Data

Reactivity: Not generally reactive under normal conditions.
Chemical Stability: Stable under normal conditions.
Conditions to Avoid: None known.
Incompatible Materials: Water-reactive materials, Strong oxidizing agents, Hot Aluminum, Strong acids, Strong reducing agents, Hydroxylamine, Hypobromite, Magnesium
Hazardous Polymerization: Will not occur

Section 11

Toxicity Data

Symptoms (Acute): Alkalosis, Respiratory Irritation, Drooling
Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Water	7732-18-5	Oral LD50 Rat 90000 mg/kg		
Sodium Citrate, Dihydrate	6132-04-3	No data available	No data available	No data available
Sodium Carbonate, Anhydrous	497-19-8	Oral LD50 Rat 4090 mg/kg Oral LD50 Mouse 6600 mg/kg		INHALATION LC50 Rat 2300 MG/M3 INHALATION LC50 Mouse 1200 MG/M3 INHALATION LC50 GUINEA PIG 800 MG/M3
Copper (II) Sulfate, 5-Hydrate	7758-99-8	Oral LD50 Rat = 300 mg/kg	Dermal LD50 Rat > 2000 mg/kg	

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Sodium Citrate, Dihydrate	6132-04-3	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.
Teratogenicity: No evidence of a teratogenic effect (birth defect).
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: No information available
Chronic: No data available

Section 12

Ecological Data

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife.
Mobility: No data
Persistence: Dissolved into water, Adsorbs to soil., Chemically Transformed
Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical Name	CAS Number	Eco Toxicity
Water	7732-18-5	No data available
Sodium Citrate, Dihydrate	6132-04-3	Not available

Safety Data Sheet

Sodium Carbonate, Anhydrous	497-19-8	96 HR LC50 LEPOMIS MACROCHIRUS 300 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 265 MG/L 120 HR EC50 NITZSCHIA 242 MG/L
Copper (II) Sulfate, 5-Hydrate	7758-99-8	96 HR LC50 PIMEPHALES PROMELAS 0.6752 MG/L [STATIC]

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Not regulated for transport by US DOT.

Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Sodium Citrate, Dihydrate	6132-04-3	No	No	No	No	No
Sodium Carbonate, Anhydrous	497-19-8	No	No	No	No	No
Copper (II) Sulfate, 5-hydrate	7758-99-8	No	No	No	No	No

Section 16 Additional Information

Revised: 03/03/2015

Replaces: 02/19/2015

Printed: 04-21-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

Safety Data Sheet

Biuret Reagent

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Biuret Reagent
Recommended Use: Science education applications
Synonyms: Biuret Solution
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER



Causes severe skin burns and eye damage. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

GHS Classification:

Skin Corrosion/Irritation Category 1B, Hazardous to the aquatic environment - Acute Category 3, Hazardous to the aquatic environment - Chronic Category 3

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	90.3
Sodium Hydroxide	1310-73-2	6.42
Potassium Sodium Tartrate, 4-hydrate	6381-59-5	1.65
Copper (II) Sulfate, 5-Hydrate	7758-99-8	1.18
Potassium Iodide	7681-11-0	0.35
Ethylenediaminetetraacetic Acid, Disodium Salt, Dihydrate (EDTA Sodium)	6381-92-6	0.02

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
Ingestion: IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Safety Data Sheet

Hazardous Combustion Products: Copper compounds, Sodium Oxides, Potassium Oxide, Iodine (gas), Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Persons not wearing appropriate protective equipment should be excluded from area of spill until clean-up has been completed.
Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7 Handling and Storage

Handling: Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin.
Storage: Store locked up. Keep container tightly closed in a cool, well-ventilated place.
Storage Code: White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Sodium Hydroxide	N/A	N/A	2 mg/m ³ TWA	N/A
Potassium Sodium Tartrate, 4-hydrate	N/A	N/A	N/A	N/A
Copper (II) Sulfate, 5-Hydrate	1 mg/m ³ TWA (dust and mist, as Cu)	N/A	N/A	N/A
Potassium Iodide	0.01 ppm TWA (inhalable fraction and vapor)	N/A	N/A	N/A
EDTA, Disodium Salt, Dihydrate	N/A	N/A	N/A	N/A

Control Parameters

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Respirator Type(s): Wear chemical splash goggles when handling this product. Have an eye wash station available.

Eye Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Skin Protection:

Gloves: Natural latex,, Nitrile, Nitrile - Extra Thick (8 mm), Neoprene

Section 9 Physical Data

Formula: See Section 3
Molecular Weight: No data available
Appearance: Blue Liquid
Odor: None
Odor Threshold: No data available
pH: No data available
Melting Point: No data available

Vapor Pressure: No data available
Evaporation Rate (BuAc=1): No data available
Vapor Density (Air=1): No data available
Specific Gravity: No data available
Solubility in Water: Soluble
Log Pow (calculated): No data available
Autoignition Temperature: No data available

Safety Data Sheet

Boiling Point: No data available
Flash Point: No data available
Flammable Limits in Air: No data available

Decomposition Temperature: No data available
Viscosity: No data available
Percent Volatile by Volume: No data available

Section 10

Reactivity Data

Reactivity: Not generally reactive under normal conditions.
Chemical Stability: Stable under normal conditions.
Conditions to Avoid: Elevated temperatures
Incompatible Materials: Water-reactive materials, Strong reducing agents, Acids, Hydroquinone, Organic halides, Phosphorus, Alcohols, Metals, Aldehydes, Calcium Salts, Lead salts, Strong acids, Strong oxidizing agents, Silver Nitrate, Hydroxylamine, Hypobromite, Magnesium
Hazardous Decomposition Products: Carbon dioxide, Carbon monoxide, Iodine (gas), Potassium Oxide, Sodium Oxides, Copper compounds
Hazardous Polymerization: Will not occur

Section 11

Toxicity Data

Routes of Entry: Ingestion, skin and eye contact.
Symptoms (Acute): Laxative effect, Vomiting, Nausea, Hypotension, Diarrhea, Hepatitis
Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Water	7732-18-5	Oral LD50 Rat 90000 mg/kg		
Potassium Sodium Tartrate, 4-hydrate	6381-59-5			
Copper (II) Sulfate, 5-Hydrate	7758-99-8		Dermal LD50 Rat > 2000 mg/kg	
Potassium Iodide	7681-11-0			
EDTA, Disodium Salt, Dihydrate	6381-92-6	Oral LD50 Rat 2000 mg/kg		

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Sodium Hydroxide	1310-73-2	Not listed	Not listed	Not listed
Potassium Sodium Tartrate, 4-hydrate	6381-59-5	Not listed	Not listed	Not listed
Copper (II) Sulfate, 5-hydrate	7758-99-8	Not listed	Not listed	Not listed
Potassium Iodide	7681-11-0	Not listed	Not listed	Not listed
EDTA, Disodium Salt, Dihydrate	6381-92-6	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.
Teratogenicity: No evidence of a teratogenic effect (birth defect).
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: Kidneys, Liver, Gastrointestinal tract, Thyroid
Chronic: Kidneys, Liver, Eyes, Thyroid

Section 12

Ecological Data

Overview: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility: No data
Persistence: Dissolved into water, Adsorbs to soil., Chemically Transformed, Photodegradation
Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical Name	CAS Number	Eco Toxicity
Water	7732-18-5	No data available
Sodium Hydroxide	1310-73-2	Aquatic LC50 (96h) Rainbow Trout 45.4 MG/L
Potassium Sodium Tartrate, 4-hydrate	6381-59-5	

Safety Data Sheet

Copper (II) Sulfate, 5-Hydrate
Potassium Iodide
EDTA, Disodium Salt, Dihydrate

7758-99-8
7681-11-0
6381-92-6

96 HR LC50 PIMEPHALES PROMELAS 0.6752 MG/L [STATIC]

Section 13

Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): If discarded, this product is considered a RCRA corrosive waste, D002.

Section 14

Transport Information

Ground - DOT Proper Shipping Name:

UN1824
Sodium Hydroxide Solution
Class 8
P.G. III

Air - IATA Proper Shipping Name:

UN1824
Sodium Hydroxide Solution
Class 8
P.G. III

Section 15

Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Sodium Hydroxide	1310-73-2	No	1000 lb RQ	1000lb (454kg) final RQ	No	No
Potassium Sodium Tartrate, 4-hydrate	6381-59-5	No	No	No	No	No
Copper (II) Sulfate, 5-hydrate	7758-99-8	No	No	No	No	No
Potassium Iodide	7681-11-0	No	No	No	No	No
EDTA, Disodium Salt, Dihydrate	6381-92-6	No	No	No	No	No

Section 16

Additional Information

Revised: 09/03/2014

Replaces: 09/03/2014

Printed: 09-11-2014

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health



Product Name:	Blood Agar, 5%
Catalog Number:	A10

Dear Customer:

This product does not require a Safety Data Sheet under the Occupational Health and Safety Administration standard entitled "Hazardous Communication" 29 CFR 1910.1200 for the United States.

Additionally, the product does not meet the criteria for W.H.M.I.S. classification as a controlled product. As a result, a W.H.M.I.S. Safety Data Sheet is not required (in Canada) for this product.

If you have any questions, please contact us at (800) 266-2222 option 2 or via email at TechService@HardyDiagnostics.com

Sincerely,

Quality Assurance Department
Hardy Diagnostics

Dear Customer:

This product does not require a Safety Data Sheet under the Occupational Health and Safety Administration standard entitled "Hazardous Communication" 29 CFR 1910.1200 for the United States.

Additionally, the product does not meet the criteria for W.H.M.I.S. classification as a controlled product. As a result, a W.H.M.I.S. Safety Data Sheet is not required (in Canada) for this product.

If you have any questions, please contact us at (800) 266-2222 option 2 or via email at TechService@HardyDiagnostics.com

Sincerely,

Quality Assurance Department
Hardy Diagnostics

110314gr

Hardy Diagnostics ~ 1430 West McCoy Lane ~ Santa Maria, CA 93455 ~ USA ~ (805)346-2766
Sales@HardyDiagnostics.com ~ www.HardyDiagnostics.com

Distribution Centers: California · Washington · Utah · Arizona · Texas · Ohio · New York · Florida · North Carolina

Hardy Diagnostics ~ 1430 West McCoy Lane ~ Santa Maria, CA 93455 ~ USA ~ (805)346-2766
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HDRA 4277A Rev. 093014vr

HDRA 4277A Rev. 093014vr

SAFETY DATA SHEET

Version 4.3
Revision Date 06/27/2014
Print Date 04/29/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Blood Agar (Base)

Product Number : 70133

Brand : Sigma-Aldrich

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832

Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

No ingredients are hazardous according to OSHA criteria.

No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. FIREFIGHTING MEASURES**5.1 Extinguishing media****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Nature of decomposition products not known.

Carbon oxides, Hydrogen chloride gas, Sodium oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

hygroscopic Moisture sensitive. Keep in a dry place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

8.2 Exposure controls**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Form: powder Colour: beige
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	7.3
e) Melting point/freezing point	no data available
f) Initial boiling point and boiling range	no data available
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	no data available
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	no data available
p) Auto-ignition temperature	no data available
q) Decomposition temperature	no data available
r) Viscosity	no data available
s) Explosive properties	no data available

t) Oxidizing properties no data available

9.2 Other safety information

no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - no data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

no data available

Inhalation: no data available

Dermal: no data available

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION**DOT (US)**

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION**SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Sodium chloride	7647-14-5	
Agar	9002-18-0	
Peptone	73049-73-7	
Meat extract	-	

New Jersey Right To Know Components

	CAS-No.	Revision Date
Sodium chloride	7647-14-5	
Agar	9002-18-0	
Peptone	73049-73-7	
Meat extract	-	

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	1
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.3

Revision Date: 06/27/2014

Print Date: 04/29/2016

Safety Data Sheet

BROMOTHYMOL BLUE, FERMENTATION MEDIA

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: BROMOTHYMOL BLUE, FERMENTATION MEDIA
Recommended Use: Science education applications
Synonyms: None Known
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER



Highly flammable liquid and vapor. Causes damage to organs.

GHS Classification:

Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 1, Flammable Liquid Category 2

Other Safety Precautions: IF exposed: Call a POISON CENTER or doctor/physician.

Acute Toxicity Oral Contains 46.126 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Dermal Contains 46.126 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Vapor Contains 46.126 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Dust/Mist Contains 46.126 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	49.2
Ethanol	64-17-5	44.53
2-Propanol	67-63-0	2.46
Methanol	67-56-1	2.21
Bromothymol Blue, Sodium Salt	34722-90-2	1.6

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact: After contact with skin, wash immediately with plenty of water.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.

Safety Data Sheet

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Fire and/or Explosion Hazards: Extremely flammable. Vapors may travel back to ignition source. Closed Containers exposed to heat may explode.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS Ventilate the contaminated area.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

Section 7 Handling and Storage

Handling: Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. This material should be kept in an area suitable for the storage of flammable liquids. Store away from oxidizing agents, sparks and flame.

Storage: Bond and ground containers when transferring liquid. Keep away from oxidizing materials and strong acids. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Ethanol	N/A	1000 ppm STEL	1000 ppm TWA; 1900 mg/m3 TWA	N/A
2-Propanol	200 ppm TWA	400 ppm STEL	400 ppm TWA; 980 mg/m3 TWA	N/A
Methanol	200 ppm TWA	250 ppm STEL	200 ppm TWA; 260 mg/m3 TWA	N/A
Bromothymol Blue, Sodium Salt	N/A	N/A	N/A	N/A

Control Parameters

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Respirator Type(s): NIOSH approved air purifying respirator with organic vapor cartridge.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: Butyl rubber, Natural latex,, Neoprene, Nitrile

Section 9 Physical Data

Safety Data Sheet

Formula: See Section 3
Molecular Weight: N/A
Appearance: Green Colorless Liquid
Odor: Moderate Alcohol Odor
Odor Threshold: No data available
pH: No data available
Melting Point: -114 C
Boiling Point: 79 C
Flash Point: 13 C
Flammable Limits in Air: (Ethyl alcohol) LEL: 3.3% UEL: 19%

Vapor Pressure: N/A
Evaporation Rate (BuAc=1): > 1
Vapor Density (Air=1): N/A
Specific Gravity: <1
Solubility in Water: Soluble
Log Pow (calculated): -0.32
Autoignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available
Percent Volatile by Volume: 99%

Section 10

Reactivity Data

Reactivity: Not generally reactive under normal conditions.
Chemical Stability: Stable under normal conditions.
Conditions to Avoid: Temperatures above flash point in combination with sparks, open flames, or other sources of ignition.
Incompatible Materials: Organic Peroxides, Strong acids, Oxidizing materials, Water-reactive materials
Hazardous Polymerization: Will not occur

Section 11

Toxicity Data

Routes of Entry: Inhalation, ingestion, eye or skin contact.
Symptoms (Acute): Respiratory Irritation, Dermatitis, Central Nervous System Depression, Dizziness, Respiratory disorders, Eye disorders, None Known
Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Water	7732-18-5	Oral LD50 Rat 90000 mg/kg		
2-Propanol	67-63-0	Oral LD50 Rat 5045 mg/kg Oral LD50 Mouse 3600 mg/kg		INHALATION LC50 Rat 16000 ppm
Methanol	67-56-1	Oral LD50 Mouse 7300 mg/kg		INHALATION LC50 Rat 64000 ppm
Bromothymol Blue, Sodium Salt	34722-90-2			

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Ethanol	64-17-5	Listed	Listed	Listed
2-Propanol	67-63-0	Listed	Not listed	Not listed
Methanol	67-56-1	Not listed	Not listed	Not listed
Bromothymol Blue, Sodium Salt	34722-90-2	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.
Teratogenicity: No evidence of a teratogenic effect (birth defect).
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: Liver, Skin, Eyes, Central Nervous System, Gastrointestinal tract, Cardiovascular system
Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12

Ecological Data

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife.
Mobility: This material is expected to have very high mobility in soil. It does not absorb to most soil types.
Persistence: Biodegradation
Bioaccumulation: Bioconcentration is not expected to occur.

Safety Data Sheet

Degradability: No data
Other Adverse Effects: No data

Chemical Name	CAS Number	Eco Toxicity
Water	7732-18-5	No data available
Ethanol	64-17-5	96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 2 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 10800 MG/L 48 HR LC50 DAPHNIA MAGNA 9268 - 14221 MG/L
2-Propanol	67-63-0	96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 µG/L 96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 13299 MG/L 72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L 96 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L
Methanol	67-56-1	96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]
Bromothymol Blue, Sodium Salt	34722-90-2	No data available

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): D001

Section 14 Transport Information

Ground - DOT Proper Shipping Name: UN1993, Flammable Liquid, n.o.s. (Ethyl alcohol), 3, II
Air - IATA Proper Shipping Name: UN1993, Flammable Liquid, n.o.s. (Ethyl alcohol), 3, II

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Ethanol	64-17-5	No	No	No	No	No
2-Propanol	67-63-0	Isopropyl alcohol	No	No	No	No
Methanol	67-56-1	Methanol	No	5000 lb final RQ; 2270 kg final RQ	No	No
Bromothymol Blue, Sodium Salt	34722-90-2	No	No	No	No	No

California Prop 65: WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

Section 16 Additional Information

Revised: 09/09/2015

Replaces: 09/03/2014

Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

Safety Data Sheet

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

Safety Data Sheet

Carbol Fuchsin, Ziehl-Neelsen

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Carbol Fuchsin, Ziehl-Neelsen
Recommended Use: Science education applications
Synonyms: Carbol Fuchsin, Castellani's paint
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER



Flammable liquid and vapor. Causes skin irritation. Causes serious eye damage. Toxic if inhaled. Suspected of causing genetic defects. May cause cancer. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life.

GHS Classification:

Serious Eye Damage/Eye Irritation Category 1, Carcinogenicity Category 1A, Skin Corrosion/Irritation Category 2, Germ Cell Mutagenicity Category 2, Specific Target Organ Systemic Toxicity (STOT) - Repeated Exposure Category 2, Flammable Liquid Category 3, Acute Toxicity - Inhalation Vapor Category 3, Hazardous to the aquatic environment - Acute Category 3

Other Safety Precautions: IF exposed or concerned: Get medical advice/attention.

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	85.81
Ethyl alcohol (Ethanol)	64-17-5	9.51
Phenol	108-95-2	4.39
Basic fuchsin	632-99-5	0.29

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Safety Data Sheet

Extinguishing Media:	Use alcohol resistant foam, carbon dioxide, or dry chemical extinguishing agents. Water may be ineffective but water spray can be used to extinguish a fire if swept across the base of the flames. Water can absorb heat and keep exposed material from being damaged by fire.
Fire Fighting Methods and Protection:	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards:	Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:	Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area. Contain the discharged material. Isolate hazard area. Keep unnecessary and unprotected personnel from entering.
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Section 7 Handling and Storage

Handling:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required.
Storage:	Keep container tightly closed. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed in a cool, well-ventilated place.
Storage Code:	Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

Section 8 Protection Information

Chemical Name	ACGIH		OSHA PEL	
	(TWA)	(STEL)	(TWA)	(STEL)
Ethyl alcohol (Ethanol)	N/A	1000 ppm STEL	1000 ppm TWA; 1900 mg/m ³ TWA	N/A
Phenol	5 ppm TWA	N/A	5 ppm TWA; 19 mg/m ³ TWA	N/A

Control Parameters	
Engineering Measures:	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.
Personal Protective Equipment (PPE):	Lab coat, apron, eye wash, safety shower.
Respiratory Protection:	Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
Gloves:	Nitrile

Section 9 Physical Data

Safety Data Sheet

Formula: See Section 3
Molecular Weight: This product is a mixture.
Appearance: Dark Red Liquid
Odor: Mild Alcohol Odor
Odor Threshold: No data available
pH: 4.7
Melting Point: Estimated 0 C
Boiling Point: Estimated 100 C 100 C
Flash Point: = 49 C
Flammable Limits in Air: 4.0% 20.0%

Vapor Pressure: (mm Hg): 14 [water]
Evaporation Rate (BuAc=1): (Water = 1): >1
Vapor Density (Air=1): (Air = 1): 0.7 [water]
Specific Gravity: Approximately 1.0
Solubility in Water: Soluble
Log Pow (calculated): No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available
Percent Volatile by Volume: No data available

Section 10

Reactivity Data

Reactivity: Not generally reactive under normal conditions.
Chemical Stability: Stable under normal conditions.
Conditions to Avoid: Elevated temperatures
Incompatible Materials: Water-reactive materials, Oxidizing materials, Acetaldehydes, Mineral acids, Metals
Hazardous Decomposition Products: Carbon oxides
Hazardous Polymerization: Will not occur

Section 11

Toxicity Data

Routes of Entry: Inhalation, ingestion, eye or skin contact.
Symptoms (Acute): Central Nervous System Disorders, Cardiovascular system, Impaired Kidney Function, Respiratory disorders, Numbness
Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Water	7732-18-5	Oral LD50 Rat 90000 mg/kg		
Phenol	108-95-2	Oral LD50 Rat 512 mg/kg	Dermal LD50 Rabbit 630 mg/kg	INHALATION LC50 Rat 316 MG/M3

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Ethyl alcohol (Ethanol)	64-17-5	Listed	Listed	Listed
Phenol	108-95-2	Not listed	Not listed	Not listed
Basic fuchsin	632-99-5	Listed	Not listed	Listed

Chronic Effects:

Mutagenicity: Evidence of a mutagenic effect.
Teratogenicity: No evidence of a teratogenic effect (birth defect).
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: Kidneys, Central Nervous System, Cardiovascular system, Lungs
Chronic: Kidneys, Liver

Section 12

Ecological Data

Overview: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility: This material is expected to have very high mobility in soil. It does not absorb to most soil types.
Persistence: No data
Bioaccumulation: No data
Degradability: Biodegrades quickly.
Other Adverse Effects: No data

Chemical Name	CAS Number	Eco Toxicity
Water	7732-18-5	No data available

Safety Data Sheet

Ethyl alcohol (Ethanol)	64-17-5	96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 2 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 10800 MG/L
Phenol	108-95-2	48 HR LC50 DAPHNIA MAGNA 9268 - 14221 MG/L 96 HR LC50 BRACHYDANIO RERIO 27.8 MG/L 96 HR LC50 LEPOMIS MACROCHIRUS 13.5 MG/L [STATIC] 96 HR LC50 ONCORHYNCHUS MYKISS 5 - 12 MG/L 96 HR LC50 PIMEPHALES PROMELAS 32 MG/L 48 HR EC50 DAPHNIA MAGNA 10.2 - 15.5 MG/L 96 HR EC50 PSEUDOKIRCHNERIELLA SUBCAPITATA 46.42 MG/L

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): U188 - Phenol

Section 14 Transport Information

Ground - DOT Proper Shipping Name: UN1992; Flammable liquids, toxic, n.o.s., (Ethyl alcohol, Phenol solution); 3; III;

Air - IATA Proper Shipping Name: UN1992; Flammable liquids, toxic, n.o.s., (Ethyl alcohol, Phenol solution); 3; III;

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Phenol	108-95-2	Phenol	1000 lb RQ	1000 lb final RQ; 454 kg final RQ	500 lb lower TPQ; 10000 lb upper TPQ	No

California Prop 65: WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

Section 16 Additional Information

Revised: 08/08/2016

Replaces: 08/08/2016

Printed: 03-31-2017

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

Safety Data Sheet

Carosafe® Concentrate

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Carosafe® Concentrate
Recommended Use: Science education applications
Synonyms: None
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING



Harmful if swallowed. Causes skin irritation. Causes serious eye irritation.

GHS Classification:

Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2A, Acute Toxicity - Oral Category 4

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Propylene Glycol	57-55-6	91
2-Amino-2-Ethyl-1,3-Propanediol	115-70-8	6
2-Phenoxyethanol	122-99-6	3

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Ingestion: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Section 5 Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products: Carbon oxides, Nitrogen oxides

Section 6 Spill or Leak Procedures

Safety Data Sheet

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away.
Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Contain the discharged material. Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Do not flush spill to drain.

Section 7 Handling and Storage

Handling: Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Do not breathe gas/fumes/vapor/spray. Avoid contact with skin and eyes. Avoid contact with clothing. Keep container tightly closed in a cool, well-ventilated place.

Storage: Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Material is hygroscopic (absorbs moisture).
Green - general chemical storage

Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Propylene Glycol	N/A	N/A	N/A	N/A
2-Amino-2-Ethyl-1,3-Propanediol	N/A	N/A	N/A	N/A
2-Phenoxyethanol	N/A	N/A	N/A	N/A

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 11. A respirator is not normally required.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: Natural rubber, Neoprene, PVC or equivalent., Nitrile

Section 9 Physical Data

Formula: See Section 3	Vapor Pressure: N/A
Molecular Weight: N/A	Evaporation Rate (BuAc=1): N/A
Appearance: Colorless Liquid	Vapor Density (Air=1): N/A
Odor: Mild Sweet	Specific Gravity: >1
Odor Threshold: No data available	Solubility in Water: Soluble
pH: No data available	Log Pow (calculated): 1.13 at 25 °C
Melting Point: -60 C	Autoignition Temperature: 371 C
Boiling Point: 152 - 153 C	Decomposition Temperature: No data available
Flash Point: 107 C	Viscosity: No data available
Flammable Limits in Air: (Propylene Glycol) LEL: 2.6% UEL: 12.6%	Percent Volatile by Volume: N/A

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: Sparks, open flame, other ignition sources, and elevated temperatures.

Safety Data Sheet

Incompatible Materials: Caustics (bases), Metals, Strong oxidizing agents
Hazardous Decomposition Products: Nitrogen oxides, Carbon oxides
Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry: Inhalation, ingestion, eye or skin contact.
Symptoms (Acute): N/A
Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Propylene Glycol	57-55-6		Dermal LD50 Rabbit 20800 mg/kg	
2-Amino-2-Ethyl-1,3-Propanediol	115-70-8			
2-Phenoxyethanol	122-99-6	Oral LD50 Rat 1260 mg/kg	Dermal LD50 Rabbit 5000 mg/kg Dermal LD50 Rat 14422 mg/kg	

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Propylene Glycol	57-55-6	Not listed	Not listed	Not listed
2-Amino-2-Ethyl-1,3-Propanediol	115-70-8	Not listed	Not listed	Not listed
2-Phenoxyethanol	122-99-6	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.
Teratogenicity: No evidence of a teratogenic effect (birth defect).
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: See Section 2
Chronic: Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12 Ecological Data

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife. Keep out of waterways.
Mobility: This material is expected to have high mobility in soil. It absorbs weakly to most soil types.
Persistence: Biodegradation, Dissolved into water
Bioaccumulation: Bioconcentration is not expected to occur.
Degradability: Biodegrades at a moderate rate.
Other Adverse Effects: No data

Chemical Name	CAS Number	Eco Toxicity
Propylene Glycol	57-55-6	96 HR LC50 PIMEPHALES PROMELAS 710 MG/L 96 HR LC50 PIMEPHALES PROMELAS 51400 MG/L [STATIC] 96 HR LC50 ONCORHYNCHUS MYKISS 51600 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA > 1000 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA > 10000 MG/L 96 HR EC50 PSEUDOKIRCHNERIELLA SUBCAPITATA 19000 MG/L
2-Amino-2-Ethyl-1,3-Propanediol	115-70-8	Not available
2-Phenoxyethanol	122-99-6	96 HR LC50 PIMEPHALES PROMELAS 366 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA > 500 MG/L 72 HR EC50 DESMODESMUS SUBSPICATUS > 500 MG/L

Section 13 Disposal Information

Safety Data Sheet

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name:
Not regulated for transport by DOT

Air - IATA Proper Shipping Name:
Not regulated for air transport by IATA.

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Propylene Glycol	57-55-6	No	No	No	No	No
2-Amino-2-Ethyl-1,3-Propanediol	115-70-8	No	No	No	No	No
2-Phenoxyethanol	122-99-6	No	No	No	No	No

Section 16 Additional Information

Revised: 09/09/2015

Replaces: 07/31/2015

Printed: 10-29-2015

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Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

Safety Data Sheet

Catechol

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Catechol
Recommended Use: Science education applications
Synonyms: Phenolic
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER



Toxic if swallowed. Harmful in contact with skin. Causes skin irritation. Causes serious eye irritation. Suspected of causing cancer. Toxic to aquatic life.

GHS Classification:

Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Carcinogenicity Category 2, Hazardous to the aquatic environment - Acute Category 2, Acute Toxicity - Oral Category 3, Acute Toxicity - Dermal Category 4

Other Safety Precautions: IF exposed or concerned: Get medical advice/attention.

Acute Toxicity Inhalation Gas Contains 100 % of the mixture consists of ingredient(s) of unknown toxicity

Acute Toxicity Inhalation Vapor Contains 100 % of the mixture consists of ingredient(s) of unknown toxicity

Acute Toxicity Inhalation Dust/Mist Contains 100 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Catechol (120-80-9) 99%	120-80-9	100

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact: IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Ingestion: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Section 5 Firefighting Procedures

Extinguishing Media: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.

Safety Data Sheet

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: N/A
Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Clean up spills immediately using Protective Equipment recommended in Section 8 at a minimum. Ventilate the contaminated area. Isolate area. Keep unnecessary personnel away. Avoid the generation of dusts during clean-up. Avoid breathing dust/fume/gas/mist/vapors/spray. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Avoid runoff into storm sewers and ditches that lead to waterways. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container

Section 7 Handling and Storage

Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required. Keep container tightly closed in a cool, well-ventilated place.
Storage: Store locked up. Keep container tightly closed in a cool, well-ventilated place.
Storage Code: Blue - Toxic. Store separately in a secured area.

Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Catechol (120-80-9) 99%	5 ppm TWA	N/A	N/A	N/A

Control Parameters

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure. General room or local exhaust ventilation is usually required to meet employee exposure standards and/or to ensure employees are not overexposed to airborne material as described in Section III.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use. If an exposure limit is exceeded or if an operator is experiencing symptoms of inhalation overexposure as explained in Section III, provide respiratory protection.

Respirator Type(s): NIOSH approved air purifying respirator with dust/mist filter.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Where use can result in skin contact, practice good personal hygiene. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly.

Gloves: Nitrile

Section 9 Physical Data

Formula: C₆H₆O₂
Molecular Weight: 110.11
Appearance: Off-white to tan Solid

Vapor Pressure: 0.1 hPa at 35 °C
Evaporation Rate (BuAc=1): N/A
Vapor Density (Air=1): 3.79

Safety Data Sheet

Odor: No data available
Odor Threshold: No data available
pH: 6.0
Melting Point: No data available 105 C
Boiling Point: 245 C
Flash Point: No data available 127 C
Flammable Limits in Air: LEL: 1.4% UEL : N/A

Specific Gravity: 1.344
Solubility in Water: Soluble
Log Pow (calculated): 0.88
Autoignition Temperature: 510 C
Decomposition Temperature: No data available
Viscosity: No data available
Percent Volatile by Volume: N/A

Section 10

Reactivity Data

Reactivity: No data available
Chemical Stability: Stable under normal conditions.
Conditions to Avoid: None known.
Incompatible Materials: Oxidizing materials
Hazardous Polymerization: Will not occur

Section 11

Toxicity Data

Routes of Entry: Inhalation, Ingestion, and Skin contact.
Symptoms (Acute): N/A
Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Catechol (120-80-9) 99%	120-80-9	Oral LD50 MAMMAL 240 mg/kg Oral LD50 Rat 3890 mg/kg	Dermal LD50 Rabbit 800 mg/kg	Not determined

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Catechol (120-80-9) 99%	120-80-9	Listed	Not listed	Listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.
Teratogenicity: No evidence of a teratogenic effect (birth defect).
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: See Section 2
Chronic: Certain components or species of this product are considered potential carcinogens., Reproductive data cited., Tumorigenic data cited., Mutation data cited.

Section 12

Ecological Data

Overview: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife. Highly/very toxic to fish and other water organisms.
Mobility: No data
Persistence: No data
Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical Name	CAS Number	Eco Toxicity
Catechol (120-80-9) 99%	120-80-9	48 HR EC50 DAPHNIA MAGNA 1.66 MG/L 6 HR EC50 CHLORELLA VULGARIS 50 - 135 MG/L

Section 13

Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): Not Determined

Safety Data Sheet

Section 14

Transport Information

Ground - DOT Proper Shipping Name:

UN2811, Toxic solids, organic, n.o.s (catechol), 6.1, III

Air - IATA Proper Shipping Name:

UN number: 2811 Class: 6.1 Packing group: III Proper shipping name: Toxic solid, organic, n.o.s. (Pyrocatecho

Section 15

Regulatory Information

TSCA Status:

All components in this product are on the TSCA Inventory.

Chemical Name**CAS
Number****§ 313 Name****§ 304 RQ****CERCLA RQ****§ 302 TPQ****CAA 112(2)
TQ**

Catechol (120-80-9) 99%

120-80-9

Catechol

No

100 lb final RQ;
45.4 kg final
RQ

No

No

California Prop 65:

WARNING: This product contains a chemical known to the state of California to cause cancer.

Section 16

Additional Information

Revised: 09/09/2015**Replaces: 09/03/2014****Printed: 10-29-2015**

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Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

Safety Data Sheet

Congo Red, 1%

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Congo Red, 1%
Recommended Use: Science education applications
Synonyms: N/A
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER



May cause cancer. Suspected of damaging fertility or the unborn child.

GHS Classification:

Carcinogenicity Category 1B, Reproductive Toxicity Category 2

Other Safety Precautions: IF exposed or concerned: Get medical advice/attention.

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	99
Congo Red, Sodium Salt	573-58-0	1

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: N/A
Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS

Safety Data Sheet

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7 Handling and Storage

Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Avoid contact with skin and eyes. Avoid contact with clothing. After contact with skin, wash immediately with plenty of water. Harmful if swallowed.

Storage: Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

Section 8 Protection Information

Chemical Name	ACGIH		OSHA PEL	
	(TWA)	(STEL)	(TWA)	(STEL)
Congo Red, Sodium Salt	N/A	N/A	N/A	N/A

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: No information available

Section 9 Physical Data

Formula: See Section 3	Vapor Pressure: Approximately 17.535 mmHg at 20 °C
Molecular Weight: N/A	Evaporation Rate (BuAc=1): 1
Appearance: Colorless Liquid	Vapor Density (Air=1): Approximately 0.7 (Water)
Odor: None	Specific Gravity: 1
Odor Threshold: No data available	Solubility in Water: Soluble
pH: No data available	Log Pow (calculated): No data available
Melting Point: No data available	Autoignition Temperature: No data available
Boiling Point: 100 C	Decomposition Temperature: No data available
Flash Point: No data available	Viscosity: No data available
Flammable Limits in Air: N/A	Percent Volatile by Volume: 99%

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Water-reactive materials, Strong oxidizing agents

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry: N/A

Symptoms (Acute): N/A

Delayed Effects: No data available

Acute Toxicity:
Chemical Name
Water

CAS Number
7732-18-5

Oral LD50
Oral LD50 Rat
90000 mg/kg

Dermal LD50

Inhalation LC50

Safety Data Sheet

Congo Red, Sodium Salt

573-58-0

Oral LD50 Rat
15200 mg/kg

Carcinogenicity:

Chemical Name

Congo Red, Sodium Salt

CAS Number

573-58-0

IARC

Listed

NTP

Listed

OSHA

Not listed

Chronic Effects:

Mutagenicity:

No evidence of a mutagenic effect.

Teratogenicity:

Evidence of a teratogenic effect (birth defect).

Sensitization:

No evidence of a sensitization effect.

Reproductive:

Evidence of negative reproductive effects.

Target Organ Effects:

Acute:

See Section 2

Chronic:

Not listed as a carcinogen by IARC, NTP or OSHA., Mutation data cited., Reproductive data cited.

Section 12

Ecological Data

Overview:

This material is not expected to be harmful to the ecology.

Mobility:

No data

Persistence:

Biodegradation, Dissolved into water

Bioaccumulation:

No data

Degradability:

No data

Other Adverse Effects:

No data

Chemical Name

Water

Congo Red, Sodium Salt

CAS Number

7732-18-5

573-58-0

Eco Toxicity

No data available

Section 13

Disposal Information

Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s):

Not Determined

Section 14

Transport Information

Ground - DOT Proper Shipping Name:

N/A

Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA.

Section 15

Regulatory Information

TSCA Status:

All components in this product are on the TSCA Inventory.

Chemical Name

Congo Red, Sodium Salt

CAS Number

573-58-0

§ 313 Name

No

§ 304 RQ

No

CERCLA RQ

No

§ 302 TPQ

No

CAA 112(2) TQ

No

Section 16

Additional Information

Revised: 10/20/2015

Replaces: 09/09/2015

Printed: 10-29-2015

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Glossary

Safety Data Sheet

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

Safety Data Sheet

Specimens in Carolina's Perfect Solution®

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Specimens in Carolina's Perfect Solution®
Recommended Use: Science education applications
Synonyms: Specimens in Carosafe 2000
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING

Causes mild skin irritation

GHS Classification:
Skin Corrosion/Irritation Category 3

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
The composition of this mixture is proprietary and is protected as a Trade Secret.	Proprietary	100

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact: After contact with skin, wash immediately with plenty of water.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Ventilate the contaminated area.

Safety Data Sheet

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7 Handling and Storage

Handling: Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection.
Storage: Keep container tightly closed in a cool, well-ventilated place.
Storage Code: Green - general chemical storage

Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Proprietary ingredient	N/A	1000 ppm	1000 ppm	N/A

Control Parameters

Engineering Measures: No data available. No special ventilation requirements
Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.
Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 11. A respirator is not normally required.
Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.
Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
Gloves: Butyl rubber, Neoprene, Nitrile, Polyvinyl chloride

Section 9 Physical Data

Formula: See Section 3	Vapor Pressure: No data available
Molecular Weight: Not applicable.	Evaporation Rate (BuAc=1): No data available
Appearance: Colorless Preserved Specimen	Vapor Density (Air=1): 0.9887
Odor: Moderate distinct biological and organic solvent odor	Specific Gravity: .99 (Carolina's Perfect Solution®)
Odor Threshold: No data available	Solubility in Water: Soluble
pH: 7	Log Pow (calculated): No data available
Melting Point: No data available	Autoignition Temperature: No data available
Boiling Point: No data available	Decomposition Temperature: No data available
Flash Point: > 93 C	Viscosity: No data available
Flammable Limits in Air: No data available	Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.
Chemical Stability: Stable under normal conditions.
Conditions to Avoid: Elevated temperatures
Incompatible Materials: Strong acids, Strong oxidizing agents
Hazardous Decomposition Products: Carbon dioxide, Carbon monoxide
Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry: Inhalation and ingestion.
Symptoms (Acute): Respiratory Irritation
Delayed Effects: Respiratory Irritation
Dermatitis
Headache

Acute Toxicity:	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Chemical Name				

Safety Data Sheet

Specimens in Carolina's Perfect Solution® Proprietary Oral LD50 Rat > 5000 mg/kg Dermal LD50 Rabbit Estimated > 20000 mg/kg Inhalation LC50 (4h) Rat Estimated > 20000 ppm

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
No data available	Proprietary	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.
Teratogenicity: Evidence of a teratogenic effect (birth defect).
Teratogenic effect only observed for chronic ingestion route of entry for one component.
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: No information available
Chronic: No information available

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.
Mobility: This material is expected to have high mobility in soil. It absorbs weakly to most soil types.
Persistence: Dissolved into water, Biodegradation, Evaporation into atmosphere
Bioaccumulation: Bioconcentration is not expected to occur.
Degradability: Biodegrades slowly.
Other Adverse Effects: Material has microbiocidal properties.

Chemical Name	CAS Number	Eco Toxicity
Specimens in Carolina's Perfect Solution®	Proprietary	

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): This material is not considered to be a RCRA hazardous waste.

Section 14 Transport Information

Ground - DOT Proper Shipping Name:	Air - IATA Proper Shipping Name:
Not regulated for transport by US DOT	Not regulated for air transport by IATA.

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	Proprietary	No	No	No	No	No

California Prop 65: WARNING: This product contains a chemical known to the state of California to cause cancer.

Section 16 Additional Information

Revised: 09/09/2015 **Replaces:** 08/13/2015 **Printed:** 10-29-2015

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Glossary

Safety Data Sheet

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

Safety Data Sheet

Crystal Violet, 1%

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Crystal Violet, 1%

Recommended Use: Science education applications

Synonyms: Gentian Violet, Aqueous

Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING



Causes serious eye irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Harmful to aquatic life.

GHS Classification:

Serious Eye Damage/Eye Irritation Category 2, Carcinogenicity Category 2, Reproductive Toxicity Category 2, Hazardous to the aquatic environment - Acute Category 3

Other Safety Precautions: IF exposed or concerned: Get medical advice/attention.

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	99
Crystal Violet	548-62-9	1

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Skin Contact: After contact with skin, wash immediately with plenty of water.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Safety Data Sheet

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.
Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7 Handling and Storage

Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required.

Storage: Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Green - general chemical storage

Section 8 Protection Information

<u>Chemical Name</u>	<u>(TWA)</u>	<u>ACGIH</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>OSHA PEL</u>	<u>(STEL)</u>
Crystal Violet	N/A		N/A	N/A		N/A

Control Parameters

Engineering Measures:

No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE):

Lab coat, apron, eye wash, safety shower.

Respiratory Protection:

No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 11. A respirator is not normally required.

Respirator Type(s):

Not normally required.

Eye Protection:

Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves:

No information available

Section 9 Physical Data

Formula: See Section 3
Molecular Weight: No data available
Appearance: Purple Liquid
Odor: None
Odor Threshold: No data available
pH: No data available
Melting Point: Estimated 0 C
Boiling Point: Estimated 100 C 100 C
Flash Point: No data available
Flammable Limits in Air: No data available

Vapor Pressure: No data available
Evaporation Rate (BuAc=1): No data available
Vapor Density (Air=1): No data available
Specific Gravity: 1
Solubility in Water: Soluble
Log Pow (calculated): No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available
Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.
Chemical Stability: Stable under normal conditions.
Conditions to Avoid: Elevated temperatures
Incompatible Materials: Water-reactive materials, Strong oxidizing agents
Hazardous Polymerization: Will not occur

Safety Data Sheet

Section 11

Toxicity Data

Routes of Entry: Inhalation, Ingestion, and Skin contact.
Symptoms (Acute): Cardiovascular system, Respiratory disorders
Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Water	7732-18-5	Oral LD50 Rat 90000 mg/kg		
Crystal Violet	548-62-9	Oral LD50 Mouse 96 mg/kg Oral LD50 Rabbit 150 mg/kg		

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Crystal Violet	548-62-9	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.
Teratogenicity: Evidence of a teratogenic effect (birth defect).
Sensitization: No evidence of a sensitization effect.
Reproductive: Evidence of negative reproductive effects.
Target Organ Effects:
Acute: Cardiovascular system, Respiratory system
Chronic: No data available

Section 12

Ecological Data

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife.
Mobility: This material is expected to have only slight mobility in soil. It absorbs strongly to most soil types.
Persistence: Adsorbs to soil.
Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical Name	CAS Number	Eco Toxicity
Water	7732-18-5	No data available
Crystal Violet	548-62-9	

Section 13

Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): Not Determined

Section 14

Transport Information

Ground - DOT Proper Shipping Name: Not regulated for transport by US DOT.
Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

Section 15

Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Crystal Violet	548-62-9	No	No	No	No	No

Safety Data Sheet

Section 16

Additional Information

Revised: 10/22/2015

Replaces: 10/20/2015

Printed: 10-29-2015

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Glossary

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CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health



The Procter & Gamble Company
P&G Household Care
Fabric & Home Care Innovation Center
5299 Spring Grove Avenue
Cincinnati, OH 45217-1087

MATERIAL SAFETY DATA SHEET

MSDS #: RQ1309635 / RQ1310080 / RQ1310594
Supersedes: RQ1102048

Issue Date: 1/29/2014
Issue Date: 12/20/2011

SECTION I - PRODUCT IDENTIFICATION

Identity: **Liquid Hand Dishwashing Detergents and Antibacterial Hand Soaps** **Finished Product**
Brands: **ULTRA DAWN**

Ultra Dawn Original [96286475]

Ultra Dawn Lemon [96286480]

Orange Dishwashing Liquid/Antibacterial Hand Soap [96268211],
Apple Blossom Dishwashing Liquid/Antibacterial Hand Soap [96268210]

Dawn Pure Essentials

Sparkling Mist [96285526]

Citrus Infusion [96285555]

Dawn Destinations

Hawaiian Pineapple [92055661]

Thai Dragonfruit [96285472]

New Zealand Springs [92055670]

Mediterranean Lavender [92247546]

Fuji Cherry Blossom [96403605]

Caribbean Breeze [96403609]

Malibu Sunrise [96591236]

P&G Telephone Number: 1-800-725-3296
or call Local Poison Control Center or your physician.

SECTION II - HAZARDS IDENTIFICATION

Potential Health Hazards (Acute and Chronic): (See Section 11 for more information)

Ingestion: Ingestion may cause transient gastrointestinal irritation.

Eye Contact: May cause mild, transient irritation.

Skin: Transient irritation with prolonged exposure to concentrated material.

Inhalation: N/A

Signs and Symptoms of Exposure:

Ingestion: May result in nausea, vomiting, and/or diarrhea.

Eye Contact: May cause stinging, tearing, itching, swelling, and/or redness.

Skin: Prolonged contact with concentrated material may be drying or transiently irritating to skin.

Inhalation: N/A

Potential Environmental Effects: (See Section 12 for more information)

SECTION III - COMPOSITION AND INGREDIENTS

Ingredients listed on the product label are: biodegradable surfactants and **no phosphate**. For antibacterial hand soaps, active ingredient is triclosan at 0.1%. Inactive ingredients for antibacterial hand soaps are listed in the Drug Facts box on back label.

Hazardous Ingredients as defined by OSHA, 29 CFR 1910.1200. and/or WHMIS under the HPA:

<u>Chemical Name</u>	<u>Common Name</u>	<u>CAS No.</u>	<u>Composition Range</u>	<u>LD50/LC50</u>
Ethyl alcohol	Ethanol	64-17-5	1-5%	LD50(oral, rat) – 7.06 g/kg
Alcohol Ethoxysulfate, sodium salt	Sodium Laureth Sulfate	68585-34-2	10-30% total anionic surfactant	LD50 (oral, rat) - >2g/kg
Alcohol Sulfates, sodium salt	Sodium Lauryl Sulfate	68585-47-7		LD50 (oral, rat) - >2g/kg
Amines, C10-16 alkyldimethyl, N-oxides	Alkyl Dimethyl Amine Oxide	70592-80-2	1-5%	LD50 (oral, rat) - 1.33 g/kg

These substances are listed because in their pure bulk form they meet the OSHA and/or WHMIS definition of hazardous. Any hazards associated with this finished product are listed in Section II of this MSDS.

SECTION IV – FIRST AID INFORMATION

First Aid Procedures:

Ingestion: Drink 1 or 2 glasses of water.

Eye Contact: Flush thoroughly with water for 15 minutes.

Skin: If prolonged contact occurs, rinse thoroughly with water. If spilled on clothing, change clothes. If symptoms persist or recur, seek medical attention.

Inhalation: N/A

Other: Consumer product package has the following precautionary statement on the back label: “For external use only. Keep out of the reach of children. If Dawn gets in eyes, rinse thoroughly with water. If swallowed, drink a glass of water to dilute.”

SECTION V - FIRE FIGHTING INFORMATION

Flammable Properties: The liquid hand dishwashing detergents have a flashpoint of 115-135°F (46.1-57.2°C) Pensky-Martens (Closed cup). However, the detergents do **not** sustain combustion according to ASTM D4206.

Flammable Properties:

Upper Flammable Limit: N/A

Lower Flammable Limit: N/A

Explosive Limits: UEL: N/A LEL: N/A

Auto-ignition Temperature: N/A

Hazardous Combustion Products: N/A

Explosion Data (Sensitivity to Mechanical Impact): N/A

Explosion Data (Sensitivity to Static Discharge): N/A

Extinguishing Media:

Suitable: CO₂, water or dry chemical may be used.

Unsuitable: N/K

Protection of Firefighters:

Specific Hazards Arising from the Material: None.

SECTION VI - ACCIDENTAL RELEASE MEASURES

Personal Precautions: None

Environmental Precautions: DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. Solutions of the detergents may be allowed to be flushed down sewer - First check with your local water treatment plant. Recycling is recommended for undiluted scrap product. Do not landfill.

Steps To Be Taken in Case Material is Released or Spilled: Prevent spills from reaching a waterway. Sorbents may be used. Read "Waste Disposal Method" below for further information.

SECTION VII – HANDLING AND STORAGE

Precautions To Be Taken in Handling: No special precautions necessary.

Precautions To Be Taken in Storage: No special precautions necessary.

SECTION VIII - EXPOSURE CONTROLS / PERSONAL PROTECTION

Recommended Exposure Guidelines: Ethanol (CAS# 64-17-5) ACGIH-TLV 1000 ppm
OSHA Z-1 PEL 1000 ppm

Engineering Controls: N/A

Personal Protective Equipment (PPE): N/A

Eye/Face Protection: None required with normal household use.

Industrial Setting: For splash protection, use chemical goggles. Eye wash fountain is recommended.

Skin Protection: None required with normal household use.

Industrial Setting: Protective gloves (rubber, neoprene) should be used for prolonged direct contact.

Respiratory Protection: No special precautions for casual exposure.

Ventilation Local Exhaust: None required with normal consumer use. *Special:* None

Industrial (General): Normal/general dilution ventilation is acceptable. *Other:* None

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

Appearance (color, physical form, shape): Clear, opaque or colored liquids.

Odor: Perfumed

Odor Threshold: N/A

Physical State: Liquid hand dishwashing solution

Vapor Pressure (mm Hg): N/K

Vapor Density (Air=1): N/K

Boiling Point: N/K

Partition Coefficient (n-octanol/water): N/K

Volatile Organic Compound (VOC): Not applicable - Product not regulated for VOC Content at State or Federal level

Flash Point (Method Used): 115-135°F (46.1-57.2°C)
Pensky-Martens (Closed cup) but do **not** sustain combustion according to ASTM D4206.

Reserve Alkalinity: N/A

Solubility in Water: Complete

Decomposition Temperature: N/K

Evaporation Rate (nBuOAc=1): N/K

Specific Gravity/Density: ca. 1

Melting/Freezing Point: ~ 30 °F (-1.1°C)

pH (10% solution): 9

SECTION X - STABILITY AND REACTIVITY

Chemical Stability: Stable

Conditions to Avoid: None known

Incompatible Materials: None

Hazardous Decomposition Products: None known

Possibility of Hazardous Reactions: None known

SECTION XI - TOXICOLOGICAL INFORMATION

Liquid hand dishwashing detergents have a relatively low order of toxicity, may cause transient irritation and are expected to be emetic.

Chronic Effects: No chronic health effects reported.

Target Organs: No target organs reported.

Carcinogenicity: This finished product is not carcinogenic. **NTP:** No **IARC:** No **OSHA:** No

SECTION XII - ECOLOGICAL INFORMATION

All surfactants are readily biodegradable.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method: DISPOSAL SHOULD BE IN ACCORDANCE WITH FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS

Non Household Setting: Products covered by this MSDS, in their original form, when disposed as waste, are considered **non hazardous waste** according to Federal RCRA regulations (40 CFR 261). Disposal should be in accordance with local, state and federal regulations. Solutions of diluted detergent in the course of use, may be allowed to be flushed down sewer. First check with your local water treatment plant. Recycling is recommended for undiluted scrap product. Do not landfill.

California Hazardous Waste: Not hazardous, in accordance with 22 CCR 66261.20 through 22 CCR 66261.24

Household Use: Household product is safe for disposal down the drain during detergent use or in the trash. Dispose of empty bottle in the trash or recycle where facilities exist.

SECTION XIV - TRANSPORT INFORMATION

Products covered by this MSDS, in their original form, are not regulated for transportation.

Ground Transport (US DOT): Not regulated

Air Transport (IATA): Not regulated

Marine/Water Transport (IMDG): Not regulated

SECTION XV - REGULATORY INFORMATION

United States

All intentionally-added components of this product are listed on the US TSCA Inventory.

This product is not subject to warning labeling under California Proposition 65.

EPA Reg. No.: Not Applicable

This product contains the following SARA 313/302/304/311/312 chemicals:

None

This product contains the following CERCLA chemicals:

Chemical Name	CAS Number	Max Range in Product (%)
Ethanol	64-17-5	5.0%

State Right-to-Know:

The following ingredients present in the finished product are listed on state right-to-know lists or state worker exposure lists:

Ingredient	CAS #	Max Level	State				
			IL	MA	NJ	PA	RI
Ethanol	64-17-5	5.0 %	X	X	X	X	X

Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance

Canada

All ingredients are CEPA approved for import to Canada by Procter & Gamble. This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and this MSDS contains all information required by the Controlled Products Regulations.

SECTION XVI - OTHER INFORMATION

Perfumes contained within the products covered by this MSDS comply with appropriate IFRA guidance.

P&G Hazard Rating:	Health: 1	4=EXTREME
	Flammability: 1	3=HIGH
	Reactivity: 0	2=MODERATE
		1=SLIGHT
		0=NOT SIGNIFICANT

*N/A. - Not Applicable

*N/K. - Not Known

Data supplied is for use only in connection with occupational safety and health.

DISCLAIMER: This MSDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Procter & Gamble to be dependable and is accurate to the best of the Company's knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Procter & Gamble assumed no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the product.

Safety Data Sheet

Dextrose

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Dextrose
Recommended Use: Science education applications
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING

May form combustible dust concentrations in air

GHS Classification:
Combustible Dust Category 1

Acute Toxicity Dermal Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Gas Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Vapor Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Dust/Mist Contains	100 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Dextrose	50-99-7	100

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion: If swallowed, rinse mouth with water (only if the person is conscious).

Section 5 Firefighting Procedures

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Safety Data Sheet

Section 6 Spill or Leak Procedures

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Avoid creating dusts. Eliminate ignition sources. If a vacuum is used, ensure that the material is wetted or otherwise treated so an explosive dust atmosphere is not created within the vacuum.

Section 7 Handling and Storage

Handling: Avoid creating and inhaling dust.
Storage: Keep container tightly closed in a cool, well-ventilated place.
Storage Code: Green - general chemical storage

Section 8 Protection Information

Chemical Name	ACGIH		OSHA PEL	
	(TWA)	(STEL)	(TWA)	(STEL)
No data available	N/A	N/A	N/A	N/A

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: No information available

Section 9 Physical Data

Formula: See Section 3	Vapor Pressure: No data available
Molecular Weight:	Evaporation Rate (BuAc=1): No data available
Appearance: White Crystals	Vapor Density (Air=1): No data available
Odor: No data available	Specific Gravity: No data available
Odor Threshold: No data available	Solubility in Water: Soluble
pH: No data available	Log Pow (calculated): No data available
Melting Point: 150 C	Autoignition Temperature: No data available
Boiling Point: No data available	Decomposition Temperature: No data available
Flash Point: No data available	Viscosity: No data available
Flammable Limits in Air: No data available	Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Hazardous Polymerization: Will not occur

Safety Data Sheet

Section 11 Toxicity Data

Symptoms (Acute): No data available
Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Dextrose	50-99-7	Oral LD50 Rat 25800 mg/kg	Not determined	Not determined

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
No data available	50-99-7	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.
Teratogenicity: No evidence of a teratogenic effect (birth defect).
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: No data available
Chronic: No data available

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.
Mobility: No data
Persistence: No data
Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical Name	CAS Number	Eco Toxicity
N/A	50-99-7	

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Not regulated for transport by US DOT.
Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

Safety Data Sheet

Section 15

Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	50-99-7	No	No	No	No	No

Section 16

Additional Information

Revised: 09/03/2014

Replaces: 08/26/2014

Printed: 09-12-2014

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health



Revision Number: 036.0

Issue Date: 04/20/2015

1. IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER

Product identifier used on the label:

Dial® Antibacterial Hand Soap – Mountain Fresh, Spring Water, Pomegranate and Tangerine, Gold, Aloe
 Dial® Antibacterial Hand Soap – White Tea & Vitamin E (Fresh Snow)
 Berkley & Jensen® Antibacterial Liquid Hand Soap
 Dial® Antibacterial Hand Soap – Hello Kitty
 Dial® Seasonals Collection Antibacterial Liquid Hand Soap – Blackberry & Coriander, Red Grapes & Mint, Cranberry & Fig, Spiced Apple & Pear, Tropical Bloom, Fruit Splash, Exotic Escape, Refreshing Escape
 Dial® Skin Therapy Antibacterial Liquid Hand Soap - Himalayan Pink Salt
 Dial® Lavender & Twilight Jasmine Antibacterial Liquid Hand Soap
 Dial® Gold Antibacterial Hand Soap – Professional
 Liquid Dial® with Moisturizers
 Liquid Dial® Sensitive Skin

Other means of identification:

714729, 1631912 (Mountain Fresh); 1533782, 714757, 1631890, 1763465 (Spring Water); 1112000, 1151446, 1631899 (Pomegranate and Tangerine); 1198192, 1305319, 1632015, 1679927 (Gold); 1198180, 1305318, 1632019, 1661407, 1679939, 1763472 (Aloe); 1362663, 1631897 (White Tea & Vitamin E, Fresh Snow); 1365866 (Berkley & Jensen); 1605423, 1606021, 1631872 (Hello Kitty); 1693185 (SC Blackberry & Coriander), 1693201 (SC Red Grapes & Mint), 1713197 (SC Cranberry & Fig); 1713166 (SC Spiced Apple & Pear); 1742158 (SC Tropical Bloom); 1729985 (SC Fruit Splash); 1802082 (Exotic Escape); 1802073 (Refreshing Escape); 1715643 (Skin Therapy - Himalayan Pink Salt), 1778120 (Lavender & Twilight Jasmine); 1679927 (Professional); 1756809 (w/Moisturizers); 1756400 (Sensitive Skin)

Recommended use of the chemical and restrictions on use:

Liquid Antibacterial Hand Soap; No restrictions on use

Name, address and telephone number of the chemical manufacturer:

The Dial Corporation, a Henkel Company
 7201 E. Henkel Way
 Scottsdale, AZ 85255-9672 USA

CHEMTREC: 1-800-424-9300 (24 hours daily)
 Internet: www.henkelna.com

Emergency telephone number: Medical Emergencies: 1-888-689-9082

2. HAZARD IDENTIFICATION

The hazards described in this OSHA Globally Harmonized System Safety Data Sheet (SDS) are not intended for consumers, and does not address consumer use of the product. For information regarding consumer applications of this product, refer to the product label.

Classification of the substance or mixture in accordance with paragraph (d) of §1910.1200

HAZARD CLASS	HAZARD CATEGORY
None	None

Signal word, hazard statement(s), symbol(s) and precautionary statement(s) in accordance with paragraph (f) of §1910.1200

Signal word: Not prescribed
Hazard Statement(s): Not prescribed
Symbol(s): None

Precautionary Statements:

Prevention: Not prescribed
Response: Not prescribed
Storage: Not prescribed
Disposal: Dispose of contents and/or container according to Federal, State/Provincial and local governmental regulations.

Hazards not otherwise classified: Not available.

Classification complies with OSHA Hazard Communication Standard (29 CFR 1910.1200) and is consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

See Section 11 for additional toxicological information.

3. COMPOSITION / INFORMATION ON INGREDIENTS

The following chemicals are classified as health hazards in accordance with paragraph (d) of § 1910.1200.

Chemical Name*	CAS Number (Unique Identifier)	Concentration
Alcohols, C10-16, ethoxylated, sulfates, sodium salts, 2EO	68585-34-2	5 – 10 %
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	61789-40-0	1 – 5 %

*The specific chemical identity and/or exact percentage (concentration) of composition has been withheld because a trade secret is claimed in accordance with paragraph (i) of §1910.1200.

4. FIRST AID MEASURES

Description of necessary measures

Inhalation: First aid measures not required.
Skin contact: First aid measures not required. Cosmetic product and therefore not necessary.
Eye contact: Rinse eyes immediately with plenty of water, occasionally lifting upper and lower lids, until no evidence of product remains. Get medical attention if pain or irritation develops.
Ingestion: Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. Contact physician or local poison control center.

Most important symptoms and effects, both acute and delayed

After eye contact: May cause mild transient irritation. After skin contact: Repeated or prolonged excessive exposure may cause irritation or dermatitis. After ingestion: Nausea and possible vomiting may occur. After inhalation: Unlikely to occur due to the physical properties of the product. At elevated temperatures, vapors or mists may cause irritation.

Indication of any immediate medical attention and special treatment needed

After eye contact: Rinse eyes with plenty of water until no evidence of product remains. After skin contact: Rinse affected area with mild soap and water until no evidence of product remains. After ingestion: Dilution by rinsing the mouth and giving a glass of water to drink is generally recommended. After inhalation: Remove from exposure area to fresh air.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Dry chemical, carbon dioxide, water spray or regular foam.

Unsuitable extinguishing media: None known

Specific hazards arising from the chemical

Oxides of carbon and oxides of nitrogen.

Special protective equipment and precautions for fire-fighters

In case of fire, wear a full-face positive-pressure self-contained breathing apparatus and protective suit. Shut off all ignition sources. Move containers from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Use flooding amounts of water as a fog, solid streams may be ineffective. Avoid breathing hazardous vapors, keep upwind.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Wear skin, eye and respiratory protection as recommended in Section 8. Stop or reduce any leaks if it is safe to do so. Spills present a slipping hazard. Keep unnecessary personnel away. Ventilate spill area if possible. Make sure area is slip-free before re-opening to traffic.

Environmental Precautions

Small or household quantities may be disposed in sewer or other liquid waste system. For larger quantities check with your local water treatment plant.

Methods and materials for containment and cleaning up

SMALL SPILLS: Contain and absorb with absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water.
LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. Dispose in suitable waste container.

7. HANDLING AND STORAGE

Precautions for safe handling

Do not get in eyes. Do not take internally. Use with adequate ventilation. Avoid generating aerosols and mists.

Conditions for safe storage, including any incompatibilities

Store in original containers in a cool dry area. Storage areas for large quantities (warehouse) should be well ventilated. Keep the containers tightly closed when not in use.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

OSHA permissible exposure limit (PEL), American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV), and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the safety data sheet, where available.

Hazardous Component(s)	ACGIH	OSHA PEL	AIHA WEEL	OTHER
Alcohols, C10-16, ethoxylated, sulfates, sodium salts, 2EO	None	None	None	None

Appropriate engineering controls

Provide local exhaust or general dilution ventilation to keep exposure to airborne contaminants below the permissible exposure limits where mists or vapors may be generated.

Individual protection measures

Respiratory: Air contamination monitoring should be carried out where mists or vapors are likely to be generated, to assure that the employees are not exposed to airborne contaminants above the permissible exposure limits.

Eye: Splash-proof safety glasses are required to prevent eye contact where splashing of the product may occur.

Hand/Body: Protective gloves are required where repeated or prolonged skin contact may occur. Protective clothing is required where repeated or prolonged skin contact may occur.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	liquid, colorless
Odor:	citric, green, fresh
Odor threshold:	Not available.
pH:	5.20 - 6.20 (25 °C)
Melting point/ range:	Not available.
Boiling point/range:	Not available.
Flash point:	> 93.3 °C (> 199.94 °F)
Evaporation rate:	Not available.
Flammable/Explosive limits - lower:	Not available.
Flammable/Explosive limits - upper:	Not available.
Vapor pressure:	Not available.
Vapor density:	Not available.
Solubility in water:	Soluble
Partition coefficient (n-octanol/water):	Not available.
Autoignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	3,000 – 8,000 mPas
VOC content:	Not available.
Specific gravity:	1.024 at 20 °C (68°F)

10. STABILITY AND REACTIVITY

Reactivity:	This product may react with strong alkalies.
Chemical stability:	Stable under normal ambient temperature (70°F, 21°C) and pressure (1 atm).
Possibility of hazardous reactions:	Hazardous polymerization has not been reported to occur under normal temperatures and pressures.
Conditions to avoid:	Avoid storing in direct sunlight and avoid extremes of temperature.
Incompatible materials:	Strong oxidizers and alkalis.
Hazardous decomposition products:	Thermal decomposition may release toxic and/or hazardous gases, including ammonia.

11. TOXICOLOGICAL INFORMATION

Likely routes of exposure including symptoms related to characteristics

Inhalation:	Unlikely to occur due to the physical properties of the product. At elevated temperatures, vapors or mists may cause irritation.
Skin contact:	Not a hazard under normal use conditions.
Eye contact:	This product may cause slight irritation.
Ingestion:	May cause mild gastrointestinal irritation with nausea, vomiting, diarrhea and abdominal pain.
Physical/Chemical:	No physical/chemical hazards are anticipated for this product.

Other relevant toxicity information:

This product is a personal care or cosmetic product. Direct contact with eyes may cause irritation. No adverse effects are anticipated to skin from normal use.

Numerical measures of toxicity, including delayed and immediate effect

Hazardous Component(s)	LD50s and LC50s	Immediate and Delayed Health Effects
Alcohols, C10-16, ethoxylated, sulfates, sodium salts, 2EO	None	Irritant
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	None	Irritant, Allergen

Carcinogenicity information

Hazardous Component(s)	NTP Carcinogen	IARC Carcinogen	OSHA Carcinogen
Alcohols, C10-16, ethoxylated, sulfates, sodium salts, 2EO	No	No	No
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-coco acyl derivs., hydroxides, inner salts	No	No	No

Carcinogenicity

None of the ingredients in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA).

Mutagenicity

None of the ingredients in this product are known to cause mutagenicity.

Toxicity to reproduction

None of the ingredients in this product are known to have reproductive, fetal, or developmental hazards.

12. ECOLOGICAL INFORMATION

Aquatic Toxicity:

This product is anticipated to be safe for the environment at concentrations predicted in household settings under normal use conditions.

Toxicity to fish:

The aquatic toxicity profile of this product has not been determined.

Toxicity to aquatic invertebrates:

The aquatic toxicity profile of this product has not been determined.

Toxicity to algae:

The aquatic toxicity profile of this product has not been determined.

Persistence and Degradability: The persistence and degradability of this product has not been determined. The hazardous ingredients are readily biodegradable.

Hazardous substances	Result value	Route of application	Species	Method
Alcohols, C10-16, ethoxylated, sulfates, sodium salts, 2EO	Readily biodegradable	aerobic	80 – 83 %	OECD 301 B (CO2 evolution)
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,Ndimethyl-,N-coco acyl derivs., hydroxides, inner Salts	Readily biodegradable	aerobic	86 %	OECD 301 D (closed bottle)

Bioaccumulation Potential: The bioaccumulation potential of this product has not been determined.

Mobility: The mobility of this product (in soil and water) has not been determined.

13. DISPOSAL CONSIDERATIONS

Waste Number and Description: Not applicable, not regulated.

Disposal Considerations:**Disposal of products:**

This product is not a RCRA hazardous waste and can be disposed of in accordance with federal, state and local regulations.

Disposal of packages:

Place in trash.

Additional information:

Observe all federal, state and local regulations when storing or disposing of this substance

14. TRANSPORT INFORMATION

The transport information provided in this section only applies to the material/formulation itself, and is not specific to any package/configuration.

U.S. Department of Transportation Ground (49 CFR)

Proper shipping name: Not regulated

Hazard class or division: None

Identification number: None

Packing group: None

International Air Transportation (ICAO/IATA)

Proper shipping name: None
Hazard class or division: None
Identification number: None
Packing group: None

Water Transportation (IMO/IMDG)

Proper shipping name: None
Hazard class or division: None
Identification number: None
Packing group: None
Marine pollutant: None

15. REGULATORY INFORMATION

Occupational safety and health act: Hazard Communication Standard, 29 CFR 1910.1200(g) Appendix D: The Occupational Safety and Health Administration (OSHA) require that the Safety Data Sheets (SDSs) are readily accessible to employees for all hazardous chemicals in the workplace. Since the use pattern and exposure in the workplace are generally not consistent with those experienced by consumers, this SDS may contain health hazard information not relevant to consumer use.

United States Regulatory Information:

TSCA 8 (b) Inventory Status:	All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.
TSCA 12 (b) Export Notification:	None above reporting de minimis
CERCLA/SARA Section 302:	None above reporting de minimis
CERCLA/SARA Section 311/312:	Not available.
CERCLA/SARA Section 313:	None above reporting de minimis
California Proposition 65:	No California Proposition 65 listed chemicals are known to be present.

Canada Regulatory Information:

CEPA DSL/NDL Status: One or more components are not listed on, and are not exempt from listing on either the Domestic Substances List or the Non-Domestic Substances List.

16. OTHER INFORMATION

DISCLAIMER: The data contained herein are furnished for information only and are believed to be reliable. However, Henkel Corporation and its affiliates ("Henkel") does not assume responsibility for any results obtained by persons over whose methods Henkel has no control. It is the user's responsibility to determine the suitability of Henkel's products or any production methods mentioned herein for a particular purpose, and to adopt such precautions as may be advisable for the protection of property and persons against any hazards that may be involved in the handling and use of any Henkel's products. In light of the foregoing, Henkel specifically disclaims all warranties, express or implied, including warranties of merchantability and fitness for a particular purpose, arising from sale or use of Henkel's products. Henkel further disclaims any liability for consequential or incidental damages of any kind, including lost profits.

This safety data sheet contains changes from the previous version in sections: 2, 12

Prepared by: R&D Support Services

Issue date: 04/20/2015

Supercedes: Rev. 35, 08/06/2014

Safety Data Sheet

Ethanol, Denatured, Absolute

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Ethanol, Denatured, Absolute
Recommended Use: Science education applications
Synonyms: Ethyl Alcohol
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER



Highly flammable liquid and vapor. Toxic in contact with skin. May cause damage to organs.

GHS Classification:

Flammable Liquid Category 2, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 2, Acute Toxicity - Dermal Category 3

Other Safety Precautions: IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Ethanol	64-17-5	90.5
2-Propanol	67-63-0	5
Methanol	67-56-1	4.5

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact: After contact with skin, wash immediately with plenty of water.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Vapors may travel back to ignition source. Closed Containers exposed to heat may explode.
Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Safety Data Sheet

Steps to Take in Case Material Is Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Ventilate the contaminated area. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area.

Section 7 Handling and Storage

Handling: Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

Storage: Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

Section 8 Protection Information

Chemical Name	ACGIH		OSHA PEL	
	(TWA)	(STEL)	(TWA)	(STEL)
Ethanol	N/A	1000 ppm STEL	1000 ppm TWA; 1900 mg/m3 TWA	N/A
2-Propanol	200 ppm TWA	400 ppm STEL	400 ppm TWA; 980 mg/m3 TWA	N/A
Methanol	200 ppm TWA	250 ppm STEL	200 ppm TWA; 260 mg/m3 TWA	N/A

Control Parameters

Engineering Measures:

No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE):

Lab coat, apron, eye wash, safety shower.

Respiratory Protection:

No respiratory protection required under normal conditions of use.

Respirator Type(s):

NIOSH approved air purifying respirator with organic vapor cartridge and HEPA filter.

Eye Protection:

Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves:

Butyl rubber, Natural latex,, Neoprene, Nitrile

Section 9 Physical Data

Formula: CH₃CH₂OH
Molecular Weight: 46.07
Appearance: Colorless Liquid
Odor: Strong Alcohol Odor
Odor Threshold: No data available
pH: No data available
Melting Point: -114 C
Boiling Point: 79 C
Flash Point: 13 C
Flammable Limits in Air: 3.3 - 19%

Vapor Pressure: 44 mmHg at 25 °C
Evaporation Rate (BuAc=1): No data available
Vapor Density (Air=1): 1.6
Specific Gravity: .790 at 20 °C
Solubility in Water: Soluble
Log Pow (calculated): -0.32
Autoignition Temperature: 363 C
Decomposition Temperature: No data available
Viscosity: No data available
Percent Volatile by Volume: 100%

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.
Chemical Stability: Stable under normal conditions.

Safety Data Sheet

Conditions to Avoid:	Temperatures above flash point in combination with sparks, open flames, or other sources of ignition.
Incompatible Materials:	Organic Peroxides, Strong acids, Oxidizing materials
Hazardous Decomposition Products:	Carbon dioxide, Carbon monoxide
Hazardous Polymerization:	Will not occur

Section 11

Toxicity Data

Routes of Entry	Inhalation and ingestion.
Symptoms (Acute):	Central Nervous System Disorders
Delayed Effects:	Liver disorders

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
2-Propanol	67-63-0	Oral LD50 Rat 5045 mg/kg Oral LD50 Mouse 3600 mg/kg		INHALATION LC50 Rat 16000 ppm
Methanol	67-56-1	Oral LD50 Mouse 7300 mg/kg		INHALATION LC50 Rat 64000 ppm

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Ethanol	64-17-5	Listed	Listed	Listed
2-Propanol	67-63-0	Listed	Not listed	Not listed
Methanol	67-56-1	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity:	No evidence of a mutagenic effect.
Teratogenicity:	Evidence of a teratogenic effect (birth defect).
Sensitization:	No evidence of a sensitization effect.
Reproductive:	Evidence of negative reproductive effects.
Target Organ Effects:	
Acute:	Central Nervous System, Eyes
Chronic:	Liver

Section 12

Ecological Data

Overview:	This material is not expected to be harmful to the ecology.
Mobility:	This material is expected to have high mobility in soil. It absorbs weakly to most soil types.
Persistence:	Biodegradation
Bioaccumulation:	Bioconcentration is not expected to occur.
Degradability:	Biodegrades quickly.
Other Adverse Effects:	No data

Chemical Name	CAS Number	Eco Toxicity
Ethanol	64-17-5	96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 2 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 10800 MG/L 48 HR LC50 DAPHNIA MAGNA 9268 - 14221 MG/L
2-Propanol	67-63-0	96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 µG/L 96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 13299 MG/L 72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L 96 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L
Methanol	67-56-1	96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]

Section 13

Disposal Information

Safety Data Sheet

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): If discarded, this product is considered a RCRA ignitable waste, D001.

Section 14

Transport Information

Ground - DOT Proper Shipping Name:

UN1170
Ethanol Solutions
Class. 3
P.G. II

Air - IATA Proper Shipping Name:

UN1170
Ethanol Solutions
Class. 3
P.G. II

Section 15

Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Ethanol	64-17-5	No	No	No	No	No
2-Propanol	67-63-0	Isopropyl alcohol	No	No	No	No
Methanol	67-56-1	Methanol	No	5000 lb final RQ; 2270 kg final RQ	No	No

California Prop 65:

WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

Section 16

Additional Information

Revised: 09/09/2015

Replaces: 09/03/2014

Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health



MATERIAL SAFETY DATA SHEET

Section 1. Company Identification and Product Information

Product Name or Identity:	Fraser Broth Base Supplement		
Manufacturer's Name:	Acumedia Manufacturers, Inc.	Emergency Phone No.:	517/372-9200
	740 East Shiawassee	Fax No.:	517/372-0108
	Lansing, Michigan 48912	e-mail:	foodsafety@neogen.com
Date Prepared or Revised:	December 2009	Chemtrec: (800) 424-9300	
		Outside US and Canada: (703) 527-3887	

Section 2. Composition / Information on Hazardous Ingredients

This product is a mixture of the substances listed below with the addition of nonhazardous materials.

Hazardous Components Specific Chemical Identity:	CAS-No.	%	Hazard Symbol
Ferric Ammonium Citrate	1185-57-5	5%	Xi (Irritant)

Section 3. Health Hazard Identification

Health Hazards: (Acute and Chronic)	Information pertaining to particular dangers for man and environment. R 36/37/38, Irritating to eyes, respiratory system and skin.
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Section 4. First Aid Measures

Emergency / First Aid Procedures:	General Information: No special measures required.
	Ingestion: If swallowed, seek medical attention immediately. Show physician product label or MSDS.
	Inhalation: If inhaled, supply fresh air or oxygen. Seek medical attention if breathing becomes labored or difficult.
	Eye Contact: Rinse opened eye for at least 15 minutes under running water, lifting lower and upper eyelids occasionally. Seek medical attention.
	Skin Contact: Remove contaminated clothing. Immediately wash with plenty of soap and water for at least 15 minutes. Wash clothing before reuse.

Section 5. Fire and Explosion Hazard Data

Flash Point (Method Used): N/A	Flammable Limits: LEL – N/A UEL – N/A
Extinguishing Media: Use CO ₂ , ABC multipurpose dry chemical, or water spray. Fight larger fires with water spray or alcohol resistant foam.	
Protective Equipment: Wear self contained breathing apparatus for firefighting if necessary.	
Unusual Fire and Explosion Hazards: This product itself does not burn.	

Section 6. Accidental Release Measures

Personal Precautions: Prevent formation of aerosols, avoid inhalation and skin contact. Wear protective clothing, including gloves and dust mask.
Environmental Precautions: Prevent dispersion of material. Wipe up with a damp sponge or mop.
Clean-up Methods: Sweep up. Keep in suitable, closed containers for disposal.

Section 7. Handling and Storage

Handling: Protect against physical damage. Keep tightly closed.

Storage: Requirements to be met by storerooms and receptacles: 2 - 8°C

Keep container tightly closed in a dry and well-ventilated place. Protect from direct sunlight and moisture.

Other Precautions: Not identified

Section 8. Exposure Controls / Personal Protection

Components with limit values that require monitoring: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

OSHA-PEL: N/A

REL: N/A

TLV: N/A

Additional Information: Personal Protection listed below are general requirements for laboratory personnel. Follow the usual precautionary measures for handling chemicals / powder. Avoid contact with eyes, skin, and clothing.

Personal Protective Equipment:

Keep away from food, beverages, and feed. Wash hands before and after entering laboratory.

Breathing Equipment: Use chemical fume hood, dust mask or NIOSH/MSHA-approved respirator.

Hand Protection: Use chemical resistant gloves.

Eye Protection: Wear safety glasses or goggles.

Body Protection: Wear lab coat or other protective work clothing.

Section 9. Physical and Chemical Properties

Appearance and Odor: Dark brown clear solution, may have yellow cast.

Boiling Point: Not determined

Density: Not determined

Flash Point: Not applicable

Melting Point: Not determined

Auto Igniting: Product is not self-igniting

Solubility in Water: Soluble

Section 10. Stability and Reactivity

Stability: Unstable

Stable

X

Conditions to Avoid: Stable under recommended storage conditions.

Incompatibility (Materials to Avoid): Avoid strong oxidizing agents.

Hazardous Decomposition or Byproducts: Ammonia (NH₄) and Nitrogen oxides.

Hazardous Polymerization: May Occur

Will Not Occur

X

No dangerous reactions known.

Section 11. Toxicological Information

LD/LC50 values that are relevant:

LD₅₀: ORL-RAT, >5000 mg/kg, Ferric Ammonium Citrate (1185-57-5)

Carcinogenicity Classification:

IARC (International Agency for Research on Cancer) - Not listed

NTP (National Toxicology Program) - Not listed

Irritant: Irritant to eyes, skin, and mucous membranes.

Inhalation: Irritant if inhaled or absorbed through the skin

Ingestion: May be harmful if swallowed.

Subacute to chronic toxicity: none listed

**Section 12. Ecological Information****Ecotoxicity Tests:**

The ecological effects have not been thoroughly investigated, but currently none have been identified. Not known to be hazardous to water.

Section 13. Disposal Considerations

Waste Disposal Method: Dispose in accordance with all applicable federal (40 CFR 261.3), state, and local environmental regulations. Smaller quantities can be disposed of with solid waste.

RCRA Hazardous Waste – No

Contact a licensed professional waste disposal service to dispose of this material if questions arise.

Container Information: Do not remove labels from containers until they have been cleaned.

Section 14. Transport Information**DOT Regulations:**

Not Regulated

Land Transport ADR/RID (cross-border):

Not Regulated

Maritime Transport IMDG:

Not Regulated

Air Transport ICAO-TI and IATA-DGR:

Not Regulated

Section 15. Regulatory Information**EU Regulations, Hazard Symbol(s):**

(Ferric Ammonium Citrate CAS#1185-57-5): **Xi (Irritant)**

Risk Phrases:

R 36/37/38, Irritating to eyes, respiratory system and skin.

Safety Phrases:

S 7 Keep container tightly closed

S 23 Do not breathe dust, gas, fumes, vapor or spray

S 24/25 Avoid contact with skin and eyes.

S 36 Wear suitable protective clothing.

Section 16. Other Information

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. Acumedia Manufacturers, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute NO WARRANTY.

Safety Data Sheet

Glycerol

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Glycerol

Recommended Use: Science education applications

Synonyms: Glycerin, Glycerine, Trihydroxypropane

Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150

Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)

Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING

Causes eye irritation.

GHS Classification:

Serious Eye Damage/Eye Irritation Category 2B, Skin Corrosion/Irritation Category 3

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Glycerol	56-81-5	100

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Safety Data Sheet

Section 7 Handling and Storage

Handling: Wash thoroughly after handling. Keep container tightly closed in a cool, well-ventilated place. Keep away from ... (incompatible materials to be indicated by the manufacturer).
Storage: Keep container tightly closed in a cool, well-ventilated place.
Storage Code: Green - general chemical storage

Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Glycerol	10 mg/m ³	N/A	15 mg/m ³ TWA (mist, total particulate); 5 mg/m ³ TWA (mist, respirable fraction)	N/A

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: Nitrile

Section 9 Physical Data

Formula: C ₃ H ₅ (OH) ₃	Vapor Pressure: 0.0025 mmHg at 50 °C
Molecular Weight: 92.09	Evaporation Rate (BuAc=1): N/A
Appearance: Colorless, Oily Liquid	Vapor Density (Air=1): 3.17
Odor: No data available	Specific Gravity: 1.262 at 20 °C
Odor Threshold: No data available	Solubility in Water: Soluble
pH: 5.5 - 8	Log Pow (calculated): -1.76
Melting Point: 18 C	Autoignition Temperature: No data available 392.78 C
Boiling Point: 290 C	Decomposition Temperature: No data available
Flash Point: No data available 179 C	Viscosity: No data available
Flammable Limits in Air: N/A	Percent Volatile by Volume: 0

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Strong oxidizing agents, Caustics (bases)

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry: Inhalation, ingestion, eye or skin contact.

Symptoms (Acute): , Eye disorders, Liver disorders, Impaired Kidney Function

Delayed Effects: No data available

Safety Data Sheet

Acute Toxicity:

Chemical Name Glycerol	CAS Number 56-81-5	Oral LD50 Oral LD50 Mouse 4090 mg/kg	Dermal LD50 Not determined	Inhalation LC50 Not determined
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Carcinogenicity:

Chemical Name No data available	CAS Number 56-81-5	IARC Not listed	NTP Not listed	OSHA Not listed
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Chronic Effects:

Mutagenicity:	No evidence of a mutagenic effect.
Teratogenicity:	No evidence of a teratogenic effect (birth defect).
Sensitization:	No evidence of a sensitization effect.
Reproductive:	No evidence of negative reproductive effects.
Target Organ Effects:	
Acute:	See Section 2
Chronic:	Not listed as a carcinogen by IARC, NTP or OSHA., Mutation data cited., Reproductive data cited.

Section 12

Ecological Data

Overview:	This material is not expected to be harmful to the ecology.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	No data
Other Adverse Effects:	No data

Chemical Name Glycerol	CAS Number 56-81-5	Eco Toxicity 24 HR EC50 DAPHNIA MAGNA > 500 MG/L
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Section 13

Disposal Information

Disposal Methods:	Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s):	Not Determined

Section 14

Transport Information

Ground - DOT Proper Shipping Name: Not dangerous goods	Air - IATA Proper Shipping Name: Not dangerous goods
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Section 15

Regulatory Information

TSCA Status:	All components in this product are on the TSCA Inventory.					
Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	56-81-5	No	No	No	No	No

Section 16

Additional Information

Revised: 09/09/2015 **Replaces: 09/05/2014** **Printed: 10-29-2015**

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

Safety Data Sheet

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

Safety Data Sheet

Iodine

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Iodine
Recommended Use: Science education applications
Synonyms: Di-iodine
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER



Harmful if swallowed, in contact with skin or if inhaled. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. Very toxic to aquatic life.

GHS Classification:

Skin Corrosion/Irritation Category 1C, Serious Eye Damage/Eye Irritation Category 1, Skin Sensitisation Category 1, Hazardous to the aquatic environment - Acute Category 1, Acute Toxicity - Inhalation Gas Category 4, Acute Toxicity - Dermal Category 4, Acute Toxicity - Oral Category 4

Acute Toxicity Inhalation Vapor Contains 100 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Dust/Mist Contains 100 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Iodine	7553-56-2	100

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact: IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.
Ingestion: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.

Safety Data Sheet

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Hydrogen Iodide

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Collect spillage.

Section 7 Handling and Storage

Handling: Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Avoid direct sunlight and heat.

Storage: Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Blue - Toxic. Store separately in a secured area.

Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Iodine	0.01 ppm TWA (inhalable fraction and vapor)	0.1 ppm STEL (aerosol and vapor)	N/A	N/A

Control Parameters

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.

Respirator Type(s): None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: Nitrile, Polyvinyl chloride, Butyl rubber

Section 9 Physical Data

Formula: I ₂	Vapor Pressure: 0.3 mm at 20°C
Molecular Weight: 253.80	Evaporation Rate (BuAc=1): Sublimes at ordinary temperatures
Appearance: Purple Solid	Vapor Density (Air=1): 8.75
Odor: Strong Characteristic Irritating	Specific Gravity: 4.93
Odor Threshold: No data available	Solubility in Water: Slightly Soluble
pH: No data available	Log Pow (calculated): 2.49
Melting Point: 114 C	Autoignition Temperature: No data available
Boiling Point: 184 C	Decomposition Temperature: No data available
Flash Point: No data available	Viscosity: No data available
Flammable Limits in Air: Not explosive	Percent Volatile by Volume: 100%

Safety Data Sheet

Section 10

Reactivity Data

Reactivity:	Mildly reactive - See below
Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	Elevated temperatures
Incompatible Materials:	Metals (ferrous), Acetaldehydes, Rust, Strong reducing agents, Magnesium, Sulfur, Rubber, Plastics, Halogens
Hazardous Decomposition Products:	Hydrogen Iodide
Hazardous Polymerization:	Will not occur

Section 11

Toxicity Data

Routes of Entry	Inhalation, ingestion, eye or skin contact.
Symptoms (Acute):	Allergies, Impaired Kidney Function, Cardiovascular system, Central Nervous System Disorders, Pulmonary Edema, Headache, Iodism
Delayed Effects:	Hyperthyroidism Hypothyroidism Acne Allergies

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Iodine	7553-56-2	Oral LD50 Mouse 22000 mg/kg Oral LD50 Rat 14000 mg/kg	Not determined	Not determined

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Iodine	7553-56-2	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity:	No evidence of a mutagenic effect.
Teratogenicity:	No evidence of a teratogenic effect (birth defect).
Sensitization:	Evidence of a sensitization effect.
Reproductive:	Evidence of negative lactation effects.
Target Organ Effects:	
Acute:	No data available
Chronic:	No data available

Section 12

Ecological Data

Overview:	Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility:	This material is expected to have moderate mobility in soil. It absorbs to most soil types.
Persistence:	Adsorbs to sediment, evaporates into atmosphere.
Bioaccumulation:	Bioconcentration may occur.
Degradability:	Naturally occurring element. Does not biodegrade.
Other Adverse Effects:	Combines with organics, forming new compounds.

Chemical Name	CAS Number	Eco Toxicity
Iodine	7553-56-2	No data available

Section 13

Disposal Information

Disposal Methods:	Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s):	Not Determined

Section 14

Transport Information

Iodine

Safety Data Sheet

Ground - DOT Proper Shipping Name:

UN3495
Iodine
Class 8 (Division 6.1)
P.G. III

Air - IATA Proper Shipping Name:

UN3495
Iodine
Class 8 (Division 6.1)
P.G. III

Section 15

Regulatory Information

TSCA Status:

All components in this product are on the TSCA Inventory.

Chemical Name**CAS
Number****§ 313 Name****§ 304 RQ****CERCLA RQ****§ 302 TPQ****CAA 112(2)
TQ**

Iodine

7553-56-2

No

No

No

No

No

Section 16

Additional Information

Revised: 09/09/2015

Replaces: 09/03/2014

Printed: 10-29-2015

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Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

Safety Data Sheet

Specimens in Carolina's Perfect Solution®

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Specimens in Carolina's Perfect Solution®
Recommended Use: Science education applications
Synonyms: Specimens in Carosafe 2000
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING

Causes mild skin irritation

GHS Classification:
Skin Corrosion/Irritation Category 3

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
The composition of this mixture is proprietary and is protected as a Trade Secret.	Proprietary	100

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact: After contact with skin, wash immediately with plenty of water.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Ventilate the contaminated area.

Safety Data Sheet

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7 Handling and Storage

Handling: Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection.
Storage: Keep container tightly closed in a cool, well-ventilated place.
Storage Code: Green - general chemical storage

Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Proprietary ingredient	N/A	1000 ppm	1000 ppm	N/A

Control Parameters

Engineering Measures: No data available. No special ventilation requirements
Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.
Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 11. A respirator is not normally required.
Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.
Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
Gloves: Butyl rubber, Neoprene, Nitrile, Polyvinyl chloride

Section 9 Physical Data

Formula: See Section 3	Vapor Pressure: No data available
Molecular Weight: Not applicable.	Evaporation Rate (BuAc=1): No data available
Appearance: Colorless Preserved Specimen	Vapor Density (Air=1): 0.9887
Odor: Moderate distinct biological and organic solvent odor	Specific Gravity: .99 (Carolina's Perfect Solution®)
Odor Threshold: No data available	Solubility in Water: Soluble
pH: 7	Log Pow (calculated): No data available
Melting Point: No data available	Autoignition Temperature: No data available
Boiling Point: No data available	Decomposition Temperature: No data available
Flash Point: > 93 C	Viscosity: No data available
Flammable Limits in Air: No data available	Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.
Chemical Stability: Stable under normal conditions.
Conditions to Avoid: Elevated temperatures
Incompatible Materials: Strong acids, Strong oxidizing agents
Hazardous Decomposition Products: Carbon dioxide, Carbon monoxide
Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry: Inhalation and ingestion.
Symptoms (Acute): Respiratory Irritation
Delayed Effects: Respiratory Irritation
Dermatitis
Headache

Acute Toxicity:				
Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50

Safety Data Sheet

Specimens in Carolina's Perfect Solution® Proprietary Oral LD50 Rat > 5000 mg/kg Dermal LD50 Rabbit Estimated > 20000 mg/kg Inhalation LC50 (4h) Rat Estimated > 20000 ppm

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
No data available	Proprietary	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.
Teratogenicity: Evidence of a teratogenic effect (birth defect).
Teratogenic effect only observed for chronic ingestion route of entry for one component.
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: No information available
Chronic: No information available

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.
Mobility: This material is expected to have high mobility in soil. It absorbs weakly to most soil types.
Persistence: Dissolved into water, Biodegradation, Evaporation into atmosphere
Bioaccumulation: Bioconcentration is not expected to occur.
Degradability: Biodegrades slowly.
Other Adverse Effects: Material has microbiocidal properties.

Chemical Name	CAS Number	Eco Toxicity
Specimens in Carolina's Perfect Solution®	Proprietary	

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): This material is not considered to be a RCRA hazardous waste.

Section 14 Transport Information

Ground - DOT Proper Shipping Name:	Air - IATA Proper Shipping Name:
Not regulated for transport by US DOT	Not regulated for air transport by IATA.

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	Proprietary	No	No	No	No	No

California Prop 65: WARNING: This product contains a chemical known to the state of California to cause cancer.

Section 16 Additional Information

Revised: 09/09/2015 **Replaces:** 08/13/2015 **Printed:** 10-29-2015

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Glossary

Safety Data Sheet

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

Safety Data Sheet

Kovac Solution

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Kovac Solution
Recommended Use: Science education applications
Synonyms: Kovac's Reagent
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER



Flammable liquid and vapor. Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. May cause respiratory irritation. May cause drowsiness or dizziness.

GHS Classification:

Skin Corrosion/Irritation Category 1A, Serious Eye Damage/Eye Irritation Category 1, Flammable Liquid Category 3, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 3, Acute Toxicity - Oral Category 4

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
1-Butanol	71-36-3	71
Water	7732-18-5	15.07
Hydrogen Chloride	7647-01-0	8.93
p-Dimethylaminobenzaldehyde	100-10-7	5

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
Ingestion: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

Section 5 Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products: Carbon dioxide, Carbon monoxide, Hydrogen chloride

Safety Data Sheet

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area. If this material is released into a work area, evacuate the area immediately.

Section 7

Handling and Storage

Handling: Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. Avoid direct sunlight and heat.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep Refrigerated.

Storage Code: Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

Section 8

Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
1-Butanol	20 ppm TWA	N/A	100 ppm TWA; 300 mg/m ³ TWA	N/A
Hydrogen Chloride	N/A	2 ppm (Ceiling)	N/A	5 ppm (Ceiling)
p-Dimethylaminobenzaldehyde	N/A	N/A	N/A	N/A

Control Parameters

Engineering Measures:

Local exhaust ventilation, process enclosures, or other engineering controls are necessary when handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE):

Lab coat, apron, eye wash, safety shower.

Respiratory Protection:

Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms. NIOSH approved air purifying respirator with organic vapor/acid gas cartridge.

Respirator Type(s):

Wear chemical splash goggles when handling this product. Have an eye wash station available.

Eye Protection:

Skin Protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves:

Nitrile, Natural rubber, Neoprene, Butyl rubber

Section 9

Physical Data

Formula: See section 3

Molecular Weight: No data available

Appearance: Yellow Colorless Liquid

Odor: Moderate Strong Sweet Rancid

Odor Threshold: No data available

pH: No data available

Melting Point: No data available -90 C

Boiling Point: No data available

Flash Point: Estimated > 37 C

Flammable Limits in Air: 1-Butanol: 1.4 - 11.2

Vapor Pressure: No data available

Evaporation Rate (BuAc=1): No data available

Vapor Density (Air=1): No data available

Specific Gravity: No data available

Solubility in Water: Slightly Soluble

Log Pow (calculated): No data available

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Viscosity: No data available

Percent Volatile by Volume: 87%

Safety Data Sheet

Section 10

Reactivity Data

Reactivity:	Mildly reactive - See below
Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	Temperatures above the high flash point of this combustible material in combination with sparks, open flames, or other sources of ignition. Reaction with water is exothermic. Exposure to light.
Incompatible Materials:	Strong oxidizing agents, Alkali and Alkaline Metals, Halogens, Mineral acids, Water-reactive materials, Water, Caustics (bases), Oxidizing materials, Acetic anhydride, Amines, Alkanolamines, Isocyanates, Copper, Metals
Hazardous Decomposition Products:	Hydrogen chloride, Carbon dioxide, Carbon monoxide
Hazardous Polymerization:	Will not occur

Section 11

Toxicity Data

Routes of Entry Inhalation, ingestion, eye or skin contact.
Symptoms (Acute): Central Nervous System Disorders, Headache, Gastrointestinal,, Respiratory Irritation, Anesthetic properties

Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
1-Butanol	71-36-3	Oral LD50 Rat 790 mg/kg		INHALATION LC50 Rat 8000 ppm
Water	7732-18-5	Oral LD50 Rat 90000 mg/kg		
Hydrogen Chloride	7647-01-0	Oral LD50 Rabbit 900 mg/kg		INHALATION LC50 Rat 3700 ppm INHALATION LC50 Mouse 1108 ppm INHALATION LC50 Rat 45000 MG/M3 INHALATION LC50 Rat 8300 MG/M3
p-Dimethylaminobenzaldehyde	100-10-7	Oral LD50 Mouse 800 mg/kg		

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Hydrogen Chloride	7647-01-0	Not listed	Not listed	Not listed
p-Dimethylaminobenzaldehyde	100-10-7	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity:	No evidence of a mutagenic effect.
Teratogenicity:	No evidence of a teratogenic effect (birth defect).
Sensitization:	No evidence of a sensitization effect.
Reproductive:	No evidence of negative reproductive effects.
Target Organ Effects:	
Acute:	Central Nervous System, Kidneys, Liver
Chronic:	No data available

Section 12

Ecological Data

Safety Data Sheet

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife.
Mobility: This material is expected to have moderate mobility in soil. It absorbs to most soil types.
Persistence: Evaporation into atmosphere, Evaporation into atmosphere, dissolved in water.
Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical Name	CAS Number	Eco Toxicity
1-Butanol	71-36-3	96 HR LC50 PIMEPHALES PROMELAS 1910000 µG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 1983 MG/L 72 HR EC50 DESMODESMUS SUBSPICATUS > 500 MG/L 96 HR EC50 DESMODESMUS SUBSPICATUS > 500 MG/L
Water	7732-18-5	No data available
Hydrogen Chloride	7647-01-0	96 HR LC50 GAMBUSIA AFFINIS 282 MG/L [STATIC]
p-Dimethylaminobenzaldehyde	100-10-7	

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): If discarded, this product is considered a RCRA ignitable waste, D001.
If discarded, this product is considered a RCRA corrosive waste, D002.

Section 14 Transport Information

Ground - DOT Proper Shipping Name:	Air - IATA Proper Shipping Name:
UN2924 Flammable Liquids, corrosive, N.O.S. (1-Butanol, Hydrochloric Acid) Class 3 P.G. II	UN2924 Flammable Liquids, corrosive, N.O.S. (1-Butanol, Hydrochloric Acid) Class 3 P.G. II

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
1-Butanol	71-36-3	n-Butyl alcohol	No	5000 lb final RQ; 2270 kg final RQ	No	No
Hydrogen Chloride	7647-01-0	No	No	No	No	No
p-Dimethylaminobenzaldehyde	100-10-7	No	No	No	No	No

Section 16 Additional Information

Revised: 09/09/2015

Replaces: 09/09/2015

Printed: 10-29-2015

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Glossary

Safety Data Sheet

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

SAFETY DATA SHEET

Version 5.3
Revision Date 08/13/2014
Print Date 04/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION**1.1 Product identifiers**

Product name : Lactose
Product Number : 17814
Brand : Sigma-Aldrich
CAS-No. : 63-42-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture****GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Combustible dust,

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS Label elements, including precautionary statements

Pictogram : none
Signal word : Warning
Hazard statement(s) : May form combustible dust concentrations in air
Precautionary statement(s) : none

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Combustible dust

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.1 Substances**

Synonyms : Lactosum anhydricum
Formula : C₁₂H₂₂O₁₁
Molecular weight : 342.30 g/mol
CAS-No. : 63-42-3
EC-No. : 200-559-2

No components need to be disclosed according to the applicable regulations.
For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- | | |
|---------------------------------|-------------------|
| a) Appearance | Form: solid |
| b) Odour | No data available |
| c) Odour Threshold | No data available |
| d) pH | No data available |
| e) Melting point/freezing point | No data available |

f)	Initial boiling point and boiling range	No data available
g)	Flash point	No data available
h)	Evaporation rate	No data available
i)	Flammability (solid, gas)	May form combustible dust concentrations in air
j)	Upper/lower flammability or explosive limits	No data available
k)	Vapour pressure	No data available
l)	Vapour density	No data available
m)	Relative density	No data available
n)	Water solubility	No data available
o)	Partition coefficient: n-octanol/water	No data available
p)	Auto-ignition temperature	No data available
q)	Decomposition temperature	No data available
r)	Viscosity	No data available
s)	Explosive properties	No data available
t)	Oxidizing properties	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - No data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - > 10,000 mg/kg

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

No data available

Developmental Toxicity - Rat - Oral

Specific Developmental Abnormalities: Musculoskeletal system.

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Lactose	63-42-3	

New Jersey Right To Know Components

	CAS-No.	Revision Date
Lactose	63-42-3	

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

May form combustible dust concentrations in air

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.3

Revision Date: 08/13/2014

Print Date: 04/01/2016



Product Name:	EMB Levine Agar
Catalog Number:	G25

Dear Customer:

This product does not require a Safety Data Sheet under the Occupational Health and Safety Administration standard entitled "Hazardous Communication" 29 CFR 1910.1200 for the United States.

Additionally, the product does not meet the criteria for W.H.M.I.S. classification as a controlled product. As a result, a W.H.M.I.S. Safety Data Sheet is not required (in Canada) for this product.

If you have any questions, please contact us at (800) 266-2222 option 2 or via email at TechService@HardyDiagnostics.com

Sincerely,

Quality Assurance Department
Hardy Diagnostics

Dear Customer:

This product does not require a Safety Data Sheet under the Occupational Health and Safety Administration standard entitled "Hazardous Communication" 29 CFR 1910.1200 for the United States.

Additionally, the product does not meet the criteria for W.H.M.I.S. classification as a controlled product. As a result, a W.H.M.I.S. Safety Data Sheet is not required (in Canada) for this product.

If you have any questions, please contact us at (800) 266-2222 option 2 or via email at TechService@HardyDiagnostics.com

Sincerely,

Quality Assurance Department
Hardy Diagnostics

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HDRA 4277A Rev. 093014vr

HDRA 4277A Rev. 093014vr

SAFETY DATA SHEET

Version 5.3
Revision Date 08/11/2015
Print Date 04/28/2016

1. PRODUCT AND COMPANY IDENTIFICATION**1.1 Product identifiers**

Product name : Levine EMB Agar

Product Number : 62087
Brand : Sigma-Aldrich

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures**

Synonyms : Levine's Eosin Methylene Blue Agar
Eosin methylene Blue Lactose Agar according to Levine

Hazardous components

Component	Classification	Concentration
Disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate		
CAS-No.	17372-87-1	Eye Irrit. 2A; H319
EC-No.	241-409-6	
		>= 1 - < 5 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides, Oxides of phosphorus, Hydrogen bromide gas, Potassium oxides, Sodium oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas.
For personal protection see section 8.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Hygroscopic. Moisture sensitive. Keep in a dry place.

Storage class (TRGS 510): Non Combustible Solids

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Appearance	Form: powder Colour: light red
b) Odour	No data available
c) Odour Threshold	No data available
d) pH	7.0
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available

- | | |
|---|-------------------|
| n) Water solubility | No data available |
| o) Partition coefficient: n-octanol/water | No data available |
| p) Auto-ignition temperature | No data available |
| q) Decomposition temperature | No data available |
| r) Viscosity | No data available |
| s) Explosive properties | No data available |
| t) Oxidizing properties | No data available |

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate)

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence (Methylthioninium chloride)

12. ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

Acute Health Hazard

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Agar	9002-18-0	
Lactose	63-42-3	
Meat peptone	-	
Dipotassium hydrogenorthophosphate	7758-11-4	

New Jersey Right To Know Components

	CAS-No.	Revision Date
Agar	9002-18-0	
Lactose	63-42-3	
Meat peptone	-	
Dipotassium hydrogenorthophosphate	7758-11-4	
Disodium 2-(2,4,5,7-tetrabromo-6-oxido-3-oxoxanthen-9-yl)benzoate	17372-87-1	

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

Eye Irrit.	Eye irritation
H319	Causes serious eye irritation.

HMIS Rating

Health hazard:	2
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	2
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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Preparation Information
Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.3

Revision Date: 08/11/2015

Print Date: 04/28/2016



Product Name:	MacConkey Agar, USP
Catalog Number:	G35

Dear Customer:

This product does not require a Safety Data Sheet under the Occupational Health and Safety Administration standard entitled "Hazardous Communication" 29 CFR 1910.1200 for the United States.

Additionally, the product does not meet the criteria for W.H.M.I.S. classification as a controlled product. As a result, a W.H.M.I.S. Safety Data Sheet is not required (in Canada) for this product.

If you have any questions, please contact us at (800) 266-2222 option 2 or via email at TechService@HardyDiagnostics.com

Sincerely,

Quality Assurance Department
Hardy Diagnostics

Dear Customer:

This product does not require a Safety Data Sheet under the Occupational Health and Safety Administration standard entitled "Hazardous Communication" 29 CFR 1910.1200 for the United States.

Additionally, the product does not meet the criteria for W.H.M.I.S. classification as a controlled product. As a result, a W.H.M.I.S. Safety Data Sheet is not required (in Canada) for this product.

If you have any questions, please contact us at (800) 266-2222 option 2 or via email at TechService@HardyDiagnostics.com

Sincerely,

Quality Assurance Department
Hardy Diagnostics

022316vr

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HDRA 4277A Rev. 093014vr

HDRA 4277A Rev. 093014vr

SAFETY DATA SHEET

Version 4.3
Revision Date 06/24/2014
Print Date 04/20/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : MacConkey Agar

Product Number : M7408

Brand : Sigma

CAS-No. : 9002-18-0

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832

Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

CAS-No. : 9002-18-0

EC-No. : 232-658-1

No ingredients are hazardous according to OSHA criteria.

No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

no data available

5. FIREFIGHTING MEASURES**5.1 Extinguishing media****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

5.4 Further information

no data available

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid dust formation. Avoid breathing vapours, mist or gas.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Moisture sensitive. Keep in a dry place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

8.2 Exposure controls**Appropriate engineering controls**

General industrial hygiene practice.

Personal protective equipment**Eye/face protection**

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- | | |
|---|-------------------------------------|
| a) Appearance | Form: powder
Colour: beige |
| b) Odour | no data available |
| c) Odour Threshold | no data available |
| d) pH | 5.0 - 7 at 15 g/l at 50 °C (122 °F) |
| e) Melting point/freezing point | no data available |
| f) Initial boiling point and boiling range | no data available |
| g) Flash point | no data available |
| h) Evaporation rate | no data available |
| i) Flammability (solid, gas) | no data available |
| j) Upper/lower flammability or explosive limits | no data available |
| k) Vapour pressure | no data available |
| l) Vapour density | no data available |
| m) Relative density | no data available |

- n) Water solubility no data available
- o) Partition coefficient: n-octanol/water no data available
- p) Auto-ignition temperature no data available
- q) Decomposition temperature no data available
- r) Viscosity no data available
- s) Explosive properties no data available
- t) Oxidizing properties no data available

9.2 Other safety information
no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

no data available

10.2 Chemical stability

Exposure to moisture.
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

Exposure to moisture.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - no data available
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - rat - 11,000 mg/kg

Inhalation: no data available

Dermal: no data available

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

RTECS: AW7950000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Agar	9002-18-0	

New Jersey Right To Know Components

	CAS-No.	Revision Date
Agar	9002-18-0	

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating

Health hazard:	0
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.3

Revision Date: 06/24/2014

Print Date: 04/20/2016

Safety Data Sheet

Maneval's Modified Stain

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Maneval's Modified Stain
Recommended Use: Science education applications
Synonyms: Maneval's Stain, Modified
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER



Causes skin irritation. Causes serious eye irritation. Toxic if inhaled. Suspected of causing genetic defects. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

GHS Classification:

Skin Corrosion/Irritation Category 2, Serious Eye Damage/Eye Irritation Category 2, Germ Cell Mutagenicity Category 2, Acute Toxicity - Inhalation Vapor Category 3, Hazardous to the aquatic environment - Acute Category 3, Hazardous to the aquatic environment - Chronic Category 3

Other Safety Precautions: IF exposed or concerned: Get medical advice/attention.

Acute Toxicity Dermal Contains 0 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Vapor Contains 7 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Dust/Mist Contains 3 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	89.26
Acetic Acid, Glacial	64-19-7	4.68
Phenol	108-95-2	3.21
Iron (III) Chloride, 6-Hydrate	10025-77-1	2.8
Acid Fuchsin	3244-88-0	0.05

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Safety Data Sheet

Section 5

Firefighting Procedures

Extinguishing Media:	Use dry chemical, CO2 or appropriate foam.
Fire Fighting Methods and Protection:	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards:	Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products:	Carbon dioxide, Carbon monoxide

Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:	Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Clean up spills immediately using Protective Equipment recommended in Section 8 at a minimum. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.
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Section 7

Handling and Storage

Handling:	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Suitable for any general chemical storage.
Storage Code:	Green - general chemical storage

Section 8

Protection Information

Chemical Name	ACGIH		OSHA PEL	
	(TWA)	(STEL)	(TWA)	(STEL)
Acetic Acid, Glacial	10 ppm TWA	15 ppm STEL	10 ppm TWA; 25 mg/m3 TWA	N/A
Phenol	5 ppm TWA	N/A	5 ppm TWA; 19 mg/m3 TWA	N/A
Iron (III) Chloride, 6-Hydrate	1 mg/m3 TWA (as Fe)	N/A	N/A	N/A

Control Parameters

Engineering Measures:	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.
Personal Protective Equipment (PPE):	Lab coat, apron, eye wash, safety shower.
Respiratory Protection:	Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
Gloves:	No information available

Section 9

Physical Data

Formula: N/A	Vapor Pressure: No data available
Molecular Weight: No data available	Evaporation Rate (BuAc=1): No data available
Appearance: Purple Liquid	Vapor Density (Air=1): No data available
Odor: Mild Vinegar	Specific Gravity: No data available
Odor Threshold: No data available	Solubility in Water: Soluble

Safety Data Sheet

pH: No data available
Melting Point: No data available
Boiling Point: No data available
Flash Point: No data available
Flammable Limits in Air: No data available

Log Pow (calculated): No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available
Percent Volatile by Volume: No data available

Section 10

Reactivity Data

Reactivity: Not generally reactive under normal conditions.
Chemical Stability: Stable under normal conditions.
Conditions to Avoid: No data available.
Incompatible Materials: Water-reactive materials, Acetic anhydride, Acetaldehydes, Caustics (bases), Oxidizing materials, Halogens, Carbonates, Mineral acids, Metals
Hazardous Polymerization: Will not occur

Section 11

Toxicity Data

Routes of Entry: Inhalation, Ingestion, and Skin contact.
Symptoms (Acute): Impaired Kidney Function, Respiratory Irritation, Lachrymation, Central Nervous System Disorders, Cardiovascular system, Respiratory disorders, Numbness, Allergies, Tachycardia, Hypoxemia (low blood oxygen), Metabolic Acidosis
Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Water	7732-18-5	Oral LD50 Rat 90000 mg/kg		
Acetic Acid, Glacial	64-19-7			INHALATION LC50 MAMMAL 11.4 GM/M3 INHALATION LC50 Mouse 5620 ppm
Phenol	108-95-2	Oral LD50 Rat 512 mg/kg	Dermal LD50 Rabbit 630 mg/kg	INHALATION LC50 Rat 316 MG/M3
Iron (III) Chloride, 6-Hydrate	10025-77-1	Oral LD50 Rat 317 mg/kg	Dermal LD50 Rabbit > 2000 mg/kg	
Acid Fuchsin	3244-88-0			

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Acetic Acid	64-19-7	Not listed	Not listed	Not listed
Phenol	108-95-2	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity: Evidence of a mutagenic effect.
Teratogenicity: No evidence of a teratogenic effect (birth defect).
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: No information available, Kidneys, Central Nervous System, Cardiovascular system, Lungs, Skin, Blood
Chronic: Teeth, Kidneys, Liver, Blood

Section 12

Ecological Data

Overview: This material is not expected to be harmful to the ecology.
Mobility: No data
Persistence: Biodegradation, Photodegradation, Dissolved into water
Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Safety Data Sheet

Chemical Name	CAS Number	Eco Toxicity
Water	7732-18-5	No data available
Acetic Acid, Glacial	64-19-7	Aquatic LC50 (96h) Fathead Minnow 79 MG/L Aquatic EC50 (24h) Daphnia 47 MG/L
Phenol	108-95-2	96 HR LC50 BRACHYDANIO RERIO 27.8 MG/L 96 HR LC50 LEPOMIS MACROCHIRUS 13.5 MG/L [STATIC] 96 HR LC50 ONCORHYNCHUS MYKISS 5 - 12 MG/L 96 HR LC50 PIMEPHALES PROMELAS 32 MG/L 48 HR EC50 DAPHNIA MAGNA 10.2 - 15.5 MG/L 96 HR EC50 PSEUDOKIRCHNERIELLA SUBCAPITATA 46.42 MG/L
Iron (III) Chloride, 6-Hydrate	10025-77-1	Aquatic LC50 (96h) Fathead Minnow 21.84 MG/L Aquatic EC50 (48h) Daphnia 9.6 MG/L
Acid Fuchsin	3244-88-0	

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Not regulated for transport by US DOT.

Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Acetic Acid, Glacial	64-19-7	No	5000 lb RQ	5000 lb final RQ; 2270 kg final RQ	No	No
Phenol	108-95-2	Phenol	1000 lb RQ	1000 lb final RQ; 454 kg final RQ	500 lb lower TPQ; 10000 lb upper TPQ	No
Iron (III) Chloride, 6-Hydrate	10025-77-1	No	No	No	No	No
Acid Fuchsin	3244-88-0	No	No	No	No	No

Section 16 Additional Information

Revised: 09/09/2015 **Replaces: 09/03/2014** **Printed: 10-29-2015**

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

Safety Data Sheet

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health



~ CERTIFICATE OF ANALYSIS ~

PREPARED CULTURE MEDIA, USP


Product Name:	Mannitol Salt Agar, USP
Container Size:	15x100mm monoplate
Catalog No:	G40
Lot No:	16083
Expiration Date:	7/21/2016
Certificate Date:	3/25/2016

This product has been supplied by Hardy Diagnostics in accordance with its quality system, which complies with U.S. Food and Drug Administration's (FDA's) Quality Systems Regulation (QSR) and current Good Manufacturing Practices (cGMP) contained in Title 21 Part 820 Code of Federal Regulations (CFR). The company's manufacturing establishments are registered, and its medical devices are listed with the FDA. Hardy Diagnostics' quality management system is [certified to ISO 13485](#) for medical devices.

Representative samples of this lot were tested and found to meet the specifications published in "[Technical Documents and IFUs](#)" under the "Technical Support" menu item located at www.HardyDiagnostics.com. In addition, this product conforms to the requirements set forth in *USP-NF, Microbiological Examination of Nonsterile Products: Microbial Enumeration Tests <61>*, *Microbiological Examination of Nonsterile Products: Tests for Specified Microorganisms <62>*, and *Sterility Tests <71>*; Rockville, MD: US Pharmacopeial Convention; current edition.

Performance Testing

Test Organism	Strain Number	Results
<i>Staphylococcus aureus</i>	ATCC® 25923*	Growth; yellow colonies and media at 24 to 48 hours
<i>Staphylococcus aureus</i>	ATCC® 6538*	Growth; yellow colonies and media at 18 hours
<i>Proteus mirabilis</i>	ATCC® 12453*	Partial to complete inhibition
<i>Escherichia coli</i>	ATCC® 8739*	Partial to complete inhibition

*  ATCC® is a registered trademark of the American Type Culture Collection, Manassas, VA 20108, USA.

In reference to USP chapters <61> and <62>, acceptable growth and/or inhibitory properties with appropriate organisms as described in the "Quality Control" section of this product's Instructions for Use (IFU) were verified at the time of release. [IFUs](#) are published in "[Technical Documents and IFUs](#)" under the "Technical Support" menu located at www.HardyDiagnostics.com.

Physical Characteristics

Appearance: Clear, slightly opalescent, pinkish-red; with no precipitate, chips, or debris

Consistency: Firm, not soft

pH: 7.4 ± 0.2 at 25°C ± 2°C. Note: The pH stated was determined at room temperature shortly after the date of manufacture. The pH may vary within the stated range depending on the age of the product, the probe used, and the

type of pH meter used by the end user.

Microbial Load Testing

Acceptable microbial load (as described in the "Test for Microbial Load" section of the *Finished Product Quality Control*) was verified at the time of release. [Finished Product Quality Control](#) is published in "Technical Documents and IFUs" under the "Technical Support" menu located at www.HardyDiagnostics.com.

Ingredient Origin

All ingredients of animal origin in this lot have been sourced from Bovine Spongiform Encephalopathy- (BSE-) free and Transmissible Spongiform Encephalopathy- (TSE-) free countries as identified by the United States Department of Agriculture (USDA). This product complies with 9 CFR 94.18 "*Restrictions on importation of meat and edible products from ruminants due to bovine spongiform encephalopathy.*"

Manufacturing Facility

Hardy Diagnostics maintains a manufacturing facility in both Springboro, Ohio, and Santa Maria, California. Each product's manufacturing location can be determined from the lot number. If the lot number contains the letter "H," the product was manufactured in Springboro, Ohio; if no "H," then it was manufactured in Santa Maria, California.



Wendy Hadley
Quality Control Manager
HARDY DIAGNOSTICS

022216vr



1430 West McCoy Lane, Santa Maria, CA 93455, USA
429 South Pioneer, Springboro, OH 45066, USA
Phone: (800) 266-2222

Distribution Centers:

California · Washington · Utah · Arizona · Texas · Ohio · New York · Florida · North Carolina

Website: www.HardyDiagnostics.com Email: Sales@HardyDiagnostics.com

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HDQA 2128C Rev. 120214vr



Material Safety Data Sheet

Section 1 - Product and Company Information

Product Name: Mannitol Salt Agar (MSA)
Catalog Number: G40, G602, L32, P98, Q96

Manufacturer: Hardy Diagnostics
Address: 1430 West McCoy Lane
 Santa Maria, CA 93455

Phone: (805) 346-2766
 (800) 266-2222

Emergency Phone: (800) 424-9300 ChemTrec (24hr service)

Section 2 - Composition / Information on Ingredients

Chemical Characterization:

Description: This product contains a mixture of the substances listed below along with nonhazardous additions. Hazardous ingredients within the product that are not listed below, are at concentrations lower than the regulatory threshold limits specified by 29 CFR 1910.1200.

CAS #	Hazardous Ingredients
7647-14-5	Sodium Chloride

Section 3 - Hazards Identification

Hazard Overview: May cause irritation in case of eye contact, ingestion, or skin contact.



NFPA Rating

Health - 1
 Fire - 0
 Reactivity - 0

Section 4 - First Aid Measures

Inhalation:	If not breathing remove to fresh air and give artificial respiration and immediately get medical attention.
Ingestion:	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical advice.
Skin Contact:	Immediately wash thoroughly with soap and water. If irritation occurs, consult a physician.
Eye Contact:	Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, keeping eyelid open. If irritation occurs, consult a physician.

Section 5 - Fire Fighting Measures

Suitable Extinguishing Media:	Water spray, carbon dioxide, dry chemical powder or appropriate foam.
Protective Equipment:	In the event of a fire, wear protective clothing and NIOSH-approved breathing apparatus necessary to prevent any possible irritation.

Section 6 - Accidental Release Measures

Personal Precautions:	Wear chemical resistant gloves to avoid irritation. If media has been inoculated, observe proper biohazard precautions and disposal.
Methods for Clean Up:	Wipe up with a damp sponge or mop.

Section 7 - Handling and Storage

Safe Handling:	Wear appropriate personal protective equipment as indicated in section 8.
Storage:	Keep container tightly closed. Store in a cool dry place in accordance with specified storage conditions.

Section 8 - Exposure Controls and Personal Protection Equipment

Engineering Controls:	Safety shower and eye bath.
------------------------------	-----------------------------

Personal Protective Equipment

Respiratory:	No special protection equipment required.
Hand:	None for normal use. Wash thoroughly after handling.
Eye:	No special protection equipment required.

Section 9 - Physical and Chemical Properties

Physical State:	Solid
Color:	Pinkish-red
Odor:	None
pH:	7.4 +/- 0.2
Boiling Point:	Not determined
Melting Point:	Not determined
Flash Point:	Not determined
Autoigniting Temp:	Not determined
Explosion Limits:	Not determined
Vapor Pressure:	Not determined
Density:	Not determined
Solubility:	Soluble

Section 10 - Stability and Reactivity

Stability:	This product is stable.
Materials to be Avoided:	Strong oxidizing agent.
Decomposition Products:	Hazardous decomposition products formed under fire conditions. - Sodium/sodium oxides, Hydrogen chloride gas.

Section 11 - Toxicological Information

Effects of Skin Contact:	May be irritating to the skin.
Effects of Eye Contact:	May cause eye irritation.
Effects of Ingestion:	May cause irritation by ingestion.
Effects of Inhalation:	May cause irritation by inhalation.
Sensitization:	Not available
Target Organs:	Not available
Additional toxicological information:	Irritant
Toxicity Data:	LD/Lc50 values that are relevant for classification
7647-14-5 Sodium Chloride	
Oral	LD50 3000 mg/kg (rat)

Section 12 - Ecological Information

Ecotoxicity:	Not determined
General Information:	Not available

Section 13 - Disposal Considerations

Waste Disposal: Dispose of in accordance with applicable state and federal regulations.
Disposal must be in accordance with regulations 40 CFR 261.

Section 14 - Transport Information

DOT Hazard Class: Not a DOT controlled material (United States).
Shipping Name: None
Identification Number: None
Packing Group: None

Section 15 - Regulations

Warning Label Text

Indication of Hazard: IRRITANT.
Risk Statements: Irritating to eyes, skin and digestive system.
Safety Statements: Avoid contact or ingestion. Refer to MSDS.

Carcinogenicity

NTP: No
IARC: No
OSHA: No
California Prop 65: No

Section 16 - Other Information

The above information, to the best of our knowledge, is accurate. Hardy Diagnostics assumes no liability whatsoever for the accuracy or completeness of the information stated above. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards may be described, we cannot guarantee that these are the only hazards that exist.

Revision 112113hh

HARDY DIAGNOSTICS

1430 W. McCoy Lane, Santa Maria, CA 93455

Phone: (805) 346-2766

Fax: (805) 346-2760

website: www.hardydiagnostics.com

email: techservice@hardydiagnostics.com

Hardy Diagnostics

Safety Data Sheet

1. Product And Company Identification

1.1. Product identifiers

Product Name: **Methyl Red Test Reagent**

Other Common Names: None

Catalog Number: Z117

1.2. Recommended use

Developer reagent for the Methyl Red test.

Details of the supplier of this Safety Data Sheet

Company: Hardy Diagnostics
 1430 West McCoy Lane
 Santa Maria, CA 93455

Telephone: (805) 346-2766

(800) 266-2222

Emergency Phone: (800) 424-9300 ChemTrec (24hr service)


2. Hazards Identification

2.1. Classification of substance or mixture

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS)

Flammable Liquid (Category 2), H225

2.2. GHS Label elements, including precautionary statements

Pictogram:	
Signal Word:	Danger
Hazard Statements:	
H225	Highly flammable liquid and vapor.
Precautionary Statements:	
P210	Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P280	Wear protective clothing.
P303+P361+P353	IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water or shower.
P370+P378	In case of fire: Use water spray, carbon dioxide, dry chemical powder, or appropriate foam.
P403+P235	Store in a well-ventilated place. Keep cool.
P501	Dispose of contents or container at an approved waste disposal facility, according to applicable regulations.

2.3. **Hazards not otherwise classified or not covered by GHS**

No data available.

3. **Composition/Information on Ingredients**

3.1. **Mixtures**

Hazardous components:

Substance:	Concentration:	Hazard Information:
Ethyl Alcohol (CAS# 64-17-5)	60%	Flammable Liquid 2

4. **First Aid Measures**

4.1. **Description of first aid measures**

Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration and immediately seek medical attention.
Ingestion:	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Seek medical advice immediately.
Skin Contact:	Immediately wash thoroughly with soap and water. If irritation persists, consult a physician.
Eye Contact:	Immediately flush eyes with plenty of water for at least 15 minutes, keeping eyelid open. If irritation persists, consult a physician.

4.2. **Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3. **Indication of any immediate medical attention and special treatment needed**

No data available.

5. **Firefighting Measures**

5.1. **Extinguishing media**

Water spray, carbon dioxide, dry chemical powder or appropriate foam.

5.2. **Special hazards arising from the substance or mixture**

Carbon oxides.

5.3. **Advice for firefighters**

In the event of a fire, wear protective clothing and NIOSH-approved breathing apparatus necessary to prevent any possible irritation.

5.4. **Further information**

No data available.

6. **Accidental Release Measures**

6.1. **Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Keep unprotected persons away. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

Environmental precautions

No data available.

6.2. Methods and materials for containment and cleaning up

Remove all sources of ignition. Ventilate area of leak or spill. Recover spill or leak with inert material such as vermiculite or sand. Contain recovered material in a suitable receptacle.

6.3. Reference to other sections

For disposal, see section 13.

7. Handling and Storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition – No smoking. Take measures to prevent the build-up of electrostatic charge.

CAUTION: High concentrations may be ignitable.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store away from all sources of ignition. Store in a cool, dry, well-ventilated place in accordance with specified storage conditions.

7.3. Specific end uses

Apart from uses mentioned in section 1.2, not other specific uses are stipulated.

8. Exposure Controls/Personal Protection

8.1. Control parameters

Component	CAS #	Value	Control Parameters	Basis
Ethanol	64-17-5	TWA	1,000 ppm	USA ACGIH Threshold Limit Values
	Remarks	Upper Respiratory Tract irritation Confirmed animal carcinogen with unknown relevance to humans		
		TWA	1,000 ppm 1,900 mg/m ³	USA Occupational Exposure Limits (OSHA)
		The value in mg/m ³ is approximate.		
		TWA	1,000 ppm 1,900 mg/m ³	USA NIOSH Recommended Exposure Limits.

8.2. Appropriate engineering controls

Safety shower and eye bath. Mechanical exhaust recommended.

8.3. Personal protective equipment

Eye/Face:	Safety goggles.
Skin:	Chemical resistant gloves.
Respiratory:	None for normal use.
Thermal Hazards:	None for normal use.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance:	Physical State: Liquid Color: Reddish-brown
Odor:	Alcohol smell
Odor Threshold:	Not Determined
pH:	Not Determined
Melting/Freezing Point:	Not Determined
Boiling Point:	Not Determined
Flash Point:	Not Determined
Evaporation Rate:	Not Determined
Flammability:	Not Determined
Explosion Limits:	Not Determined
Vapor Pressure:	Not Determined
Vapor Density:	Not Determined
Relative Density:	Not Determined
Water Solubility:	Soluble
Partition coefficient (n-octanol/water):	Not Determined
Auto-ignition Temperature:	Not Determined
Decomposition Temperature:	Not Determined
Viscosity:	Not Determined
Explosive Properties:	Not Determined
Oxidizing Properties:	Not Determined

9.2. Other safety information

No data available.

10. Stability and Reactivity

Reactivity	No data available.
Chemical stability	This product is stable.
Possibility of hazardous reactions	Vapors may form explosive mixture with air.
Conditions to avoid	Heat, flames, ignition sources.
Incompatible materials	Oxidizing agents.
Hazardous decomposition products	No dangerous decomposition products known.

11. Toxicological Information

11.1. Information on toxicological effects

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific target organ toxicity – single exposure	No data available
Specific target organ toxicity – repeated exposure	No data available
Aspiration Hazard	No data available

Additional information	No data available.
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12. Ecological Information

Ecotoxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	Ethyl Alcohol: -0.32 (log Pow)
Results of PBT and vPvB assessment	No data available
Other adverse effects	No data available

13. Disposal Considerations

13.1. **Waste disposal**

Dispose of in accordance with applicable state and federal regulations.
 Disposal must be in accordance with regulations 40 CFR 261.

14. Transport Information

DOT hazard class	Class 3: Flammable Liquid
Shipping name	Ethanol
Identification number	UN1170
Packing group	II

15. Regulations

Carcinogenicity	Yes/No
NTP:	No
IARC:	No
OSHA:	No
California Prop 65:	No
IATA:	No

16. Other Information

The above information, to the best of our knowledge, is accurate. Hardy Diagnostics assumes no liability whatsoever for the accuracy or completeness of the information stated above. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards may be described, we cannot guarantee that these are the only hazards that exist.



Product Name:	MR-VP Broth
Catalog Number:	K237

Dear Customer:

This product does not require a Safety Data Sheet under the Occupational Health and Safety Administration standard entitled "Hazardous Communication" 29 CFR 1910.1200 for the United States.

Additionally, the product does not meet the criteria for W.H.M.I.S. classification as a controlled product. As a result, a W.H.M.I.S. Safety Data Sheet is not required (in Canada) for this product.

If you have any questions, please contact us at (800) 266-2222 option 2 or via email at TechService@HardyDiagnostics.com

Sincerely,

Quality Assurance Department
Hardy Diagnostics

Dear Customer:

This product does not require a Safety Data Sheet under the Occupational Health and Safety Administration standard entitled "Hazardous Communication" 29 CFR 1910.1200 for the United States.

Additionally, the product does not meet the criteria for W.H.M.I.S. classification as a controlled product. As a result, a W.H.M.I.S. Safety Data Sheet is not required (in Canada) for this product.

If you have any questions, please contact us at (800) 266-2222 option 2 or via email at TechService@HardyDiagnostics.com

Sincerely,

Quality Assurance Department
Hardy Diagnostics

020915sw

Hardy Diagnostics ~ 1430 West McCoy Lane ~ Santa Maria, CA 93455 ~ USA ~ (805)346-2766
Sales@HardyDiagnostics.com ~ www.HardyDiagnostics.com

Distribution Centers: California · Washington · Utah · Arizona · Texas · Ohio · New York · Florida · North Carolina

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HDRA 4277A Rev. 093014vr

HDRA 4277A Rev. 093014vr

Date Prepared: 02/13/2013

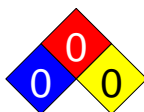
Reviewed On: 02/13/2013

1 Identification of the substance/mixture and of the company/undertaking

- **Product Identifier**
- **Product Name:** MR VP Broth
- **Catalog Number:** 211383
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the preparation** *In-vitro Diagnostics*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
BD Diagnostic Systems
7 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771 - 0100 or (800) 638 – 8663
Email Address: Technical_Services@bd.com
- **Information Department:** Technical Service
- **Emergency telephone number:**
In case of a chemical emergency, spill, fire, exposure, or accident, contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

2 Hazards identification

- **Classification of the substance or mixture**
The product is not classified according to the Globally Harmonized System (GHS).
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
This product contains no hazardous constituents, or the concentration of all chemical constituents are below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29 CFR 1910.1200, the Canada's Workplace Hazardous Materials Information System (WHMIS) and the European Directive 67/548/EEC and 1999/45/EC.
Void
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **Label elements**
- **Labelling according to EU guidelines:**
Observe the general safety regulations when handling chemicals
The product is not subject to identification regulations pertaining to regulations on hazardous materials.
- **NFPA ratings (scale 0-4)**



Health = 0
Flammability = 0
Reactivity = 0

(Contd. on page 2)

US

Date Prepared: 02/13/2013

Reviewed On: 02/13/2013

Product Name: MR VP Broth

(Contd. of page 1)

· HMIS ratings (scale 0-4)

HEALTH	0	Health = 0
FIRE	0	Flammability = 0
REACTIVITY	0	Reactivity = 0

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixture**
- **Description:** Mixture consisting of the following components.
- **Dangerous Components:** Void

4 First aid measures

- **Description of first aid measures**
- **General information** No special measures required.
- **After inhalation** Seek medical treatment in case of complaints.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing** If symptoms persist consult doctor.
- **Information for doctor** Show this product label or this MSDS.
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
CO₂, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

US

(Contd. on page 3)

Date Prepared: 02/13/2013

Reviewed On: 02/13/2013

Product Name: MR VP Broth

(Contd. of page 2)

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Wipe up with damp sponge or mop.
- **Methods and material for containment and cleaning up:** No special measures required.
- **Reference to other sections** No dangerous substances are released.

7 Handling and storage

- **Handling**
- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:**
No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:**
Store away from oxidizing agents.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:**
No further data; see Section 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal Protective Equipment**
- **General protective and hygienic measures**
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:**
In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.
- **Protection of hands:**



Chemical resistant gloves (i.e. nitrile, or equivalent).

- **Eye protection:** Safety glasses

(Contd. on page 4)

US

Date Prepared: 02/13/2013

Reviewed On: 02/13/2013

Product Name: MR VP Broth· **Body protection:** Protective work clothing (lab coat).

(Contd. of page 3)

9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

Form:	Solid.
Color:	Light beige
Odor:	Characteristic

· **Change in condition**

Melting point/Melting range: Not determined

Boiling point/Boiling range: Undetermined

· **Flash point:** Not applicable· **Flammability (solid, gaseous)** Product is not flammable.· **Danger of explosion:** Product does not present an explosion hazard.· **Density:** Not determined· **Solubility in / Miscibility with**

Water: Soluble

· **Other information** No further relevant information available.

10 Stability and reactivity

· **Reactivity**· **Chemical stability**· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **Possibility of hazardous reactions** No dangerous reactions known· **Conditions to avoid** No further relevant information available.· **Incompatible materials:** No further relevant information available.· **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**· **Acute toxicity:**· **Primary irritant effect:**· **on the skin:** No irritating effect.· **on the eye:** No irritating effect.· **Sensitization:** No sensitizing effects known.

(Contd. on page 5)

Date Prepared: 02/13/2013

Reviewed On: 02/13/2013

Product Name: MR VP Broth

(Contd. of page 4)

· Additional toxicological information:

The product is not subject to OSHA classification according to internally approved calculation methods for preparations.

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories**· IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

12 Ecological information**· Toxicity**

· **Aquatic toxicity:** No further relevant information available.

· **Persistence and degradability** No further relevant information available.

· Behavior in environmental systems:

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· Ecotoxicological effects:**· Other information:**

The ecological effects have not been thoroughly investigated, but currently none have been identified.

· Additional ecological information:

· **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects** No further relevant information available.

13 Disposal considerations**· Waste treatment methods****· Recommendation**

Smaller quantities can be disposed of with solid waste.

This product is not considered a RCRA hazardous waste.

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.

· Uncleaned packagings:

· **Recommendation:** Disposal must be made according to state and federal regulations.

· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

US

(Contd. on page 6)

Date Prepared: 02/13/2013

Reviewed On: 02/13/2013

Product Name: MR VP Broth

(Contd. of page 5)

14 Transport information

· UN-Number	
· DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name	
· DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	If a "void" appears in the Hazard Class section for the type of transportation, this indicates the product is not regulated for transportation.
· UN "Model Regulation":	-

15 Regulatory information

 · **Safety, health and environmental regulations/legislation specific for the substance or mixture**

 · **SARA Section 355 (extremely hazardous substances)**

None of the ingredients is listed.

 · **SARA Section 313 (specific toxic chemical listings)**

None of the ingredients is listed.

 · **TSCA (Toxic Substances Control Act)**

50-99-7 dextrose

7758-11-4 potassium phosphate, dibasic

7778-77-0 potassium phosphate, monobasic

 · **California Proposition 65 - Chemicals known to cause cancer**

None of the ingredients is listed.

(Contd. on page 7)

Date Prepared: 02/13/2013

Reviewed On: 02/13/2013

Product Name: MR VP Broth

(Contd. of page 6)

· California Proposition 65 - Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories**· TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· Product related hazard information:

Observe the general safety regulations when handling chemicals

The product is not subject to identification regulations pertaining to regulations on hazardous materials.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**16 Other information**

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.

· Department issuing MSDS:

Environmental, Health & Safety

Created by Michael J. Spinazzola

· Contact: Technical Service Representative**· Abbreviations and acronyms:**RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer
(Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

Safety Data Sheet

Nutrient Agar, Prepared, 1.5%

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Nutrient Agar, Prepared, 1.5%
Recommended Use: Science education applications
Synonyms: N/A
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Classification:

Other Safety Precautions: Not a dangerous substance according to GHS classification criteria.
No known OSHA hazards.

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	97.7
Agar	9002-18-0	1.5
Peptones	73049-73-7	0.5
Beef Extract	N/A	0.3

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact: After contact with skin, wash immediately with plenty of water.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: N/A
Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: No adverse health affects expected from the clean-up of spilled material.
Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. No special spill clean-up considerations. Collect and discard in regular trash.

Section 7 Handling and Storage

Safety Data Sheet

Handling: N/A
Storage: Keep container tightly closed in a cool, well-ventilated place.
Storage Code: Green - general chemical storage

Section 8 Protection Information

<u>Chemical Name</u>	<u>(TWA)</u>	<u>ACGIH</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>OSHA PEL</u>	<u>(STEL)</u>
No data available	N/A		N/A	N/A		N/A

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: Natural latex,, Natural rubber, Neoprene, Nitrile, Polyvinyl chloride

Section 9 Physical Data

Formula: See Section 3	Vapor Pressure: N/A
Molecular Weight: N/A	Evaporation Rate (BuAc=1): N/A
Appearance: Colorless to pale amber Semi-solid	Vapor Density (Air=1): N/A
Odor: None	Specific Gravity: N/A
Odor Threshold: No data available	Solubility in Water: Slightly Soluble
pH: No data available	Log Pow (calculated): No data available
Melting Point: No data available	Autoignition Temperature: No data available
Boiling Point: 100 C	Decomposition Temperature: No data available
Flash Point: No data available	Viscosity: No data available
Flammable Limits in Air: N/A	Percent Volatile by Volume: 0%

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Incompatible Materials: Water-reactive materials

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry: Inhalation and ingestion.

Symptoms (Acute): N/A

Delayed Effects: No data available

Acute Toxicity:

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Oral LD50</u>	<u>Dermal LD50</u>	<u>Inhalation LC50</u>
Water	7732-18-5	Oral LD50 Rat 90000 mg/kg		
Agar	9002-18-0	Oral LD50 Mouse 16000 mg/kg		

Carcinogenicity:

Nutrient Agar, Prepared, 1.5%

Safety Data Sheet

Chemical Name No data available	CAS Number	IARC Not listed	NTP Not listed	OSHA Not listed
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Chronic Effects:

Mutagenicity:	No evidence of a mutagenic effect.
Teratogenicity:	No evidence of a teratogenic effect (birth defect).
Sensitization:	No evidence of a sensitization effect.
Reproductive:	No evidence of negative reproductive effects.
Target Organ Effects:	
Acute:	See Section 2
Chronic:	Not listed as a carcinogen by IARC, NTP or OSHA.

Section 12 Ecological Data

Overview:	This material is not expected to be harmful to the ecology.
Mobility:	No data
Persistence:	No data
Bioaccumulation:	No data
Degradability:	No data
Other Adverse Effects:	No data

Chemical Name Water	CAS Number 7732-18-5	Eco Toxicity No data available
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Section 13 Disposal Information

Disposal Methods:	Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s):	Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: N/A	Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.
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Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available		No	No	No	No	No

Section 16 Additional Information

Revised: 10/28/2015

Replaces: 10/21/2015

Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

SAFETY DATA SHEET

Version 5.4
Revision Date 02/26/2016
Print Date 04/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Phenol red solution
Product Number : P0290
Brand : Sigma-Aldrich

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA
Telephone : +1 800-325-5832
Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIREFIGHTING MEASURES**5.1 Extinguishing media****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

No data available

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

No data available

6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For disposal see section 13.

7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters****Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

8.2 Exposure controls**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

- | | |
|---|-------------------|
| a) Appearance | Form: liquid |
| b) Odour | No data available |
| c) Odour Threshold | No data available |
| d) pH | No data available |
| e) Melting point/freezing point | No data available |
| f) Initial boiling point and boiling range | No data available |
| g) Flash point | No data available |
| h) Evaporation rate | No data available |
| i) Flammability (solid, gas) | No data available |
| j) Upper/lower flammability or explosive limits | No data available |
| k) Vapour pressure | No data available |
| l) Vapour density | No data available |
| m) Relative density | No data available |
| n) Water solubility | No data available |
| o) Partition coefficient: n-octanol/water | No data available |
| p) Auto-ignition temperature | No data available |
| q) Decomposition temperature | No data available |
| r) Viscosity | No data available |
| s) Explosive properties | No data available |
| t) Oxidizing properties | No data available |

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

No data available

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Oxides of phosphorus, Hydrogen chloride gas, Potassium oxides, Sodium oxides

Other decomposition products - No data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION**DOT (US)**

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

Disodium hydrogenorthophosphate

CAS-No.
7558-79-4

Revision Date
2007-03-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Sodium chloride	7647-14-5	
Disodium hydrogenorthophosphate	7558-79-4	2007-03-01

New Jersey Right To Know Components

	CAS-No.	Revision Date
Sodium chloride	7647-14-5	
Disodium hydrogenorthophosphate	7558-79-4	2007-03-01
Potassium chloride	7447-40-7	
Potassium dihydrogenorthophosphate	7778-77-0	

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	1
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.4

Revision Date: 02/26/2016

Print Date: 04/01/2016

Safety Data Sheet

Phenolphthalein, 1% in 95% Ethanol

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Phenolphthalein, 1% in 95% Ethanol
Recommended Use: Science education applications
Synonyms: Phenolphthalein solution, Alcoholic, Phenolphthalein pH Indicator
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER



Highly flammable liquid and vapor. Toxic in contact with skin. Suspected of causing genetic defects. May cause cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs.

GHS Classification:

Carcinogenicity Category 1B, Flammable Liquid Category 2, Germ Cell Mutagenicity Category 2, Reproductive Toxicity Category 2, Specific Target Organ Systemic Toxicity (STOT) - Single Exposure Category 2, Acute Toxicity - Dermal Category 3

Other Safety Precautions:

IF exposed or concerned: Get medical advice/attention.
IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Ethanol	64-17-5	85.12
Water	7732-18-5	4.95
2-Propanol	67-63-0	4.7
Methanol	67-56-1	4.23
Phenolphthalein	77-09-8	1

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF ON SKIN: Wash with plenty of soap and water. Remove/Take off immediately all contaminated clothing. Wash contaminated clothing before reuse.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Safety Data Sheet

Fire and/or Explosion Hazards: Vapors may travel back to ignition source. Closed Containers exposed to heat may explode.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Evaporation of volatile substances can lead to the displacement of air creating an environment that can cause asphyxiation. Isolate area. Keep unnecessary personnel away. Ventilate the area by opening door and/or turning on fans and blowers. Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container.

Section 7 Handling and Storage

Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../ equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection. Use personal protective equipment as required.

Storage: Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: Red - Flammables. Store in approved flammable containers. Store away from oxidizing materials.

Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Ethanol	N/A	1000 ppm STEL	1000 ppm TWA; 1900 mg/m3 TWA	N/A
2-Propanol	200 ppm TWA	400 ppm STEL	400 ppm TWA; 980 mg/m3 TWA	N/A
Methanol	200 ppm TWA	250 ppm STEL	200 ppm TWA; 260 mg/m3 TWA	N/A
Phenolphthalein	N/A	N/A	N/A	N/A

Control Parameters

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 11. A respirator is not normally required.

Respirator Type(s): None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection: Wear protective gloves. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work

Gloves: Nitrile

Section 9 Physical Data

Formula: See Section 3
Molecular Weight: No data available
Appearance: Colorless Liquid
Odor: Moderate Alcohol Odor

Vapor Pressure: 40 mmHg at 20 °C
Evaporation Rate (BuAc=1): 1.70
Vapor Density (Air=1): 1.5
Specific Gravity: .815 at 15.5 °C

Safety Data Sheet

Odor Threshold: No data available

pH: No data available

Melting Point: No data available -114 C

Boiling Point: Estimated 79 C

Flash Point: Estimated 17 C 17 C

Flammable Limits in Air: Ethyl alcohol: 3.3 - 19%

Solubility in Water: Soluble

Log Pow (calculated): No data available -0.32

Autoignition Temperature: Estimated 423 C

Decomposition Temperature: No data available

Viscosity: No data available

Percent Volatile by Volume: 94%

Section 10

Reactivity Data

Reactivity: Mildly reactive - See below
Chemical Stability: Stable under normal conditions.
Conditions to Avoid: Temperatures above flash point in combination with sparks, open flames, or other sources of ignition.
Incompatible Materials: Organic Peroxides, Strong acids, Oxidizing materials, Water-reactive materials, Strong oxidizing agents
Hazardous Decomposition Products: Carbon dioxide
Hazardous Polymerization: Will not occur

Section 11

Toxicity Data

Routes of Entry: Inhalation and ingestion.
Symptoms (Acute): Respiratory Irritation, Dermatitis, Central Nervous System Depression, Dizziness, Eye disorders, Allergies, Laxative effect
Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Water	7732-18-5	Oral LD50 Rat 90000 mg/kg		
2-Propanol	67-63-0	Oral LD50 Rat 5045 mg/kg Oral LD50 Mouse 3600 mg/kg		INHALATION LC50 Rat 16000 ppm
Methanol	67-56-1	Oral LD50 Mouse 7300 mg/kg		INHALATION LC50 Rat 64000 ppm
Phenolphthalein	77-09-8			

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Ethanol	64-17-5	Listed	Listed	Listed
2-Propanol	67-63-0	Listed	Not listed	Not listed
Methanol	67-56-1	Not listed	Not listed	Not listed
Phenolphthalein	77-09-8	Listed	Listed	Listed

Chronic Effects:

Mutagenicity: Evidence of a mutagenic effect.
Teratogenicity: Evidence of a teratogenic effect (birth defect).
Sensitization: No evidence of a sensitization effect.
Reproductive: Evidence of negative reproductive effects.

Target Organ Effects:

Acute: Central Nervous System, Eyes, Kidneys, Liver, Gastrointestinal tract
Chronic: Eyes, Kidneys, Liver, Gastrointestinal tract

Section 12

Ecological Data

Overview: Slight ecological hazard. In high concentrations, this product may be dangerous to plants and/or wildlife.
Mobility: This material is expected to have moderate mobility in soil. It adsorbs to most soil types.
Persistence: Biodegradation, Adsorbs to soil/solids
Bioaccumulation: Bioconcentration is not expected to occur.
Degradability: Biodegrades quickly.
Other Adverse Effects: No data

Safety Data Sheet

Chemical Name	CAS Number	Eco Toxicity
Ethanol	64-17-5	96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 2 MG/L [STATIC] 24 HR EC50 DAPHNIA MAGNA 10800 MG/L 48 HR LC50 DAPHNIA MAGNA 9268 - 14221 MG/L
Water	7732-18-5	No data available
2-Propanol	67-63-0	96 HR LC50 LEPOMIS MACROCHIRUS > 1400000 µG/L 96 HR LC50 PIMEPHALES PROMELAS 11130 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 13299 MG/L 72 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L 96 HR EC50 DESMODESMUS SUBSPICATUS > 1000 MG/L
Methanol	67-56-1	96 HR LC50 PIMEPHALES PROMELAS > 100 MG/L [STATIC]
Phenolphthalein	77-09-8	

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.

Waste Disposal Code(s): If discarded, this product is considered a RCRA ignitable waste, D001.

Section 14 Transport Information

Ground - DOT Proper Shipping Name: UN1170 Ethanol Solutions Class 3 P.G. II	Air - IATA Proper Shipping Name: UN1170 Ethanol Solutions Class 3 P.G. II
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Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Ethanol	64-17-5	No	No	No	No	No
2-Propanol	67-63-0	Isopropyl alcohol	No	No	No	No
Methanol	67-56-1	Methanol	No	5000 lb final RQ; 2270 kg final RQ	No	No
Phenolphthalein	77-09-8	Phenolphthalein	No	No	No	No

California Prop 65: WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

Section 16 Additional Information

Revised: 10/23/2015

Replaces: 09/09/2015

Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

Safety Data Sheet

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

Safety Data Sheet

Specimens in Carolina's Perfect Solution®

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Specimens in Carolina's Perfect Solution®
Recommended Use: Science education applications
Synonyms: Specimens in Carosafe 2000
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING

Causes mild skin irritation

GHS Classification:
Skin Corrosion/Irritation Category 3

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
The composition of this mixture is proprietary and is protected as a Trade Secret.	Proprietary	100

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact: After contact with skin, wash immediately with plenty of water.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Ventilate the contaminated area.

Safety Data Sheet

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7 Handling and Storage

Handling: Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection.
Storage: Keep container tightly closed in a cool, well-ventilated place.
Storage Code: Green - general chemical storage

Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Proprietary ingredient	N/A	1000 ppm	1000 ppm	N/A

Control Parameters

Engineering Measures: No data available. No special ventilation requirements
Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.
Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 11. A respirator is not normally required.
Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.
Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
Gloves: Butyl rubber, Neoprene, Nitrile, Polyvinyl chloride

Section 9 Physical Data

Formula: See Section 3	Vapor Pressure: No data available
Molecular Weight: Not applicable.	Evaporation Rate (BuAc=1): No data available
Appearance: Colorless Preserved Specimen	Vapor Density (Air=1): 0.9887
Odor: Moderate distinct biological and organic solvent odor	Specific Gravity: .99 (Carolina's Perfect Solution®)
Odor Threshold: No data available	Solubility in Water: Soluble
pH: 7	Log Pow (calculated): No data available
Melting Point: No data available	Autoignition Temperature: No data available
Boiling Point: No data available	Decomposition Temperature: No data available
Flash Point: > 93 C	Viscosity: No data available
Flammable Limits in Air: No data available	Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.
Chemical Stability: Stable under normal conditions.
Conditions to Avoid: Elevated temperatures
Incompatible Materials: Strong acids, Strong oxidizing agents
Hazardous Decomposition Products: Carbon dioxide, Carbon monoxide
Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry: Inhalation and ingestion.
Symptoms (Acute): Respiratory Irritation
Delayed Effects: Respiratory Irritation
Dermatitis
Headache

Acute Toxicity:	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Chemical Name				

Safety Data Sheet

Specimens in Carolina's Perfect Solution® Proprietary Oral LD50 Rat > 5000 mg/kg Dermal LD50 Rabbit Estimated > 20000 mg/kg Inhalation LC50 (4h) Rat Estimated > 20000 ppm

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
No data available	Proprietary	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.
Teratogenicity: Evidence of a teratogenic effect (birth defect).
Teratogenic effect only observed for chronic ingestion route of entry for one component.
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: No information available
Chronic: No information available

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.
Mobility: This material is expected to have high mobility in soil. It absorbs weakly to most soil types.
Persistence: Dissolved into water, Biodegradation, Evaporation into atmosphere
Bioaccumulation: Bioconcentration is not expected to occur.
Degradability: Biodegrades slowly.
Other Adverse Effects: Material has microbiocidal properties.

Chemical Name	CAS Number	Eco Toxicity
Specimens in Carolina's Perfect Solution®	Proprietary	

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): This material is not considered to be a RCRA hazardous waste.

Section 14 Transport Information

Ground - DOT Proper Shipping Name:	Air - IATA Proper Shipping Name:
Not regulated for transport by US DOT	Not regulated for air transport by IATA.

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	Proprietary	No	No	No	No	No

California Prop 65: WARNING: This product contains a chemical known to the state of California to cause cancer.

Section 16 Additional Information

Revised: 09/09/2015 **Replaces:** 08/13/2015 **Printed:** 10-29-2015

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Glossary

Safety Data Sheet

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

Safety Data Sheet

Potassium Hydroxide, Pellets

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Potassium Hydroxide, Pellets
Recommended Use: Science education applications
Synonyms: Caustic Potash, Potassium Hydrate
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER



May be corrosive to metals. Harmful if swallowed. Causes serious eye damage. Harmful to aquatic life.

GHS Classification:

Substance or mixture corrosive to metals Category 1, Serious Eye Damage/Eye Irritation Category 1, Hazardous to the aquatic environment - Acute Category 3, Acute Toxicity - Oral Category 4

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Potassium Hydroxide	1310-58-3	100

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Section 5 Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Non-combustible but contact with water or moisture may generate sufficient heat to ignite combustible materials
Hazardous Combustion Products: None Known

Section 6 Spill or Leak Procedures

Safety Data Sheet

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Avoid the generation of dusts during clean-up.

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Do not flush spill to drain. Absorb spillage to prevent material damage.

Section 7 Handling and Storage

Handling: Keep only in original container. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Avoid creating and inhaling dust.

Storage: Store in corrosive resistant/... container with a resistant inner liner. Keep container tightly closed in a cool, well-ventilated place.

Storage Code: White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Potassium Hydroxide	N/A	N/A	N/A	N/A

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. Use local exhaust ventilation or other engineering controls to minimize exposures and maintain operator comfort.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 11. A respirator is not normally required.

Respirator Type(s): NIOSH approved air purifying respirator with HEPA filter.

Eye Protection: Wear chemical splash goggles when handling this product. Additionally, wear a face shield when the possibility of splashing of liquid exists. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly.

Gloves: Neoprene, Nitrile, Nitrile - Extra Thick (8 mm)

Section 9 Physical Data

Formula: KOH
Molecular Weight: 56.11
Appearance: White Solid
Odor: None
Odor Threshold: No data available
pH: 13, conc: 1 % (solution)
Melting Point: 360 - 380 C
Boiling Point: 1320 - 1327 C
Flash Point: No data available
Flammable Limits in Air: No data available

Vapor Pressure: 2.6664 - 3.9997 hPa at 15.6 °C
Evaporation Rate (BuAc=1): No data available
Vapor Density (Air=1): No data available
Specific Gravity: 2.1 @ 20°C
Solubility in Water: Soluble
Log Pow (calculated): No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available
Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity: Mildly reactive - See below
Chemical Stability: Stable under normal conditions.
Conditions to Avoid: Exposure to moisture Reaction with water is exothermic.

Safety Data Sheet

Incompatible Materials: Acids, Halogenated Hydrocarbons, Metals, Maleic Anhydride, Moisture, Water, Peroxides
Hazardous Decomposition Products: None Known
Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry: Inhalation and ingestion.
Symptoms (Acute): Diarrhea, Coffee Ground Emesis, Vomiting, Respiratory Irritation
Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Potassium Hydroxide	1310-58-3	Oral LD50 Rat 273 mg/kg	Not determined	Not determined

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Potassium Hydroxide	1310-58-3	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.
Teratogenicity: No evidence of a teratogenic effect (birth defect).
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: No information available
Chronic: No information available

Section 12 Ecological Data

Overview: Moderate ecological hazard. This product may be dangerous to plants and/or wildlife.
Mobility: This material is expected to have very high mobility in soil. It does not absorb to most soil types.
Persistence: Dissolved into water
Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical Name	CAS Number	Eco Toxicity
Potassium Hydroxide	1310-58-3	96 HR LC50 GAMBUSIA AFFINIS 80 MG/L [STATIC]

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): If discarded, this product is considered a RCRA corrosive waste, D002.

Section 14 Transport Information

Ground - DOT Proper Shipping Name:	Air - IATA Proper Shipping Name:
UN1813 Potassium Hydroxide, solid Class 8 P.G. II	UN1813 Potassium Hydroxide, solid Class 8 P.G. II

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Safety Data Sheet

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Potassium Hydroxide	1310-58-3	No	1000 lb RQ	1000 lb final RQ (454 kg)	No	No

Section 16

Additional Information

Revised: 10/23/2015

Replaces: 09/09/2015

Printed: 10-29-2015

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Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

Safety Data Sheet

PTC Taste Test Strips

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: PTC Taste Test Strips
Recommended Use: Science education applications
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Classification:

Other Safety Precautions: May cause irritation.
May cause gastrointestinal discomfort.
May cause irritation to respiratory tract.
May cause irritation to skin.

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Phenylthiourea	103-85-5	
PTC is highly toxic, but it has been calculated that each test strip contains less than 0.3 mg of PTC, far below the toxicity level. Contains <0.02% of PTC		

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

No data.

Section 7 Handling and Storage

Handling: Do not ingest or take internally.
Storage: Keep container tightly closed in a cool, well-ventilated place.
Storage Code: Green - general chemical storage

Safety Data Sheet

Section 8

Protection Information

Chemical Name	ACGIH		OSHA PEL	
	(TWA)	(STEL)	(TWA)	(STEL)
No data available	N/A	N/A	N/A	N/A

Control Parameters

Engineering Measures:

No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE):

Lab coat, apron, eye wash, safety shower.

Respiratory Protection:

No respiratory protection required under normal conditions of use.

Eye Protection:

No special requirements under normal industrial use.

Skin Protection:

Not normally considered a skin hazard. Where use can result in skin contact, practice good personal hygiene and wear a barrier cream and/or impervious surgical style gloves. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves:

No information available

Section 9

Physical Data

Formula: See Section 3

Molecular Weight:

Appearance: Solid

Odor: No data available

Odor Threshold: No data available

pH: No data available

Melting Point: No data available

Boiling Point: No data available

Flash Point: No data available

Flammable Limits in Air: No data available

Vapor Pressure: No data available

Evaporation Rate (BuAc=1): No data available

Vapor Density (Air=1): No data available

Specific Gravity: No data available

Solubility in Water: No data available

Log Pow (calculated): No data available

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Viscosity: No data available

Percent Volatile by Volume: No data available

Section 10

Reactivity Data

Reactivity:

No data available

Chemical Stability:

Stable under normal conditions.

Conditions to Avoid:

None known.

Hazardous Polymerization:

Will not occur

Section 11

Toxicity Data

Symptoms (Acute): No data available

Delayed Effects: No data available

Acute Toxicity:

Chemical Name

Phenylthiourea

CAS Number

103-85-5

Oral LD50

Oral LD50 Rat 3

mg/kg

Oral LD50 Mouse

10 mg/kg

Oral LD50 Rabbit

40 mg/kg

Dermal LD50

Inhalation LC50

Carcinogenicity:

Chemical Name

No data available

CAS Number

IARC

Not listed

NTP

Not listed

OSHA

Not listed

Chronic Effects:

Mutagenicity:

No evidence of a mutagenic effect.

Safety Data Sheet

Teratogenicity: No evidence of a teratogenic effect (birth defect).
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: See Section 2, Respiratory system, Skin
Chronic: No data available

Section 12

Ecological Data

Overview: This material is not expected to be harmful to the ecology.
Mobility: No data
Persistence: No data
Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical Name	CAS Number	Eco Toxicity
Phenylthiourea	103-85-5	Aquatic LC50 (48h) Daphnia = 59 MG/L

Section 13

Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): Not Determined

Section 14

Transport Information

Ground - DOT Proper Shipping Name: Not regulated for transport by US DOT.	Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.
---	---

Section 15

Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Phenylthiourea	103-85-5	No	No	No	No	No

Section 16

Additional Information

Revised: 09/12/2014

Replaces: 09/03/2014

Printed: 09-12-2014

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

SAFETY DATA SHEET

Creation Date 06-Aug-2014

Revision Date 06-Aug-2014

Revision Number 1

1. Identification

Product Name Protocol Safranin Stain

Cat No. : 23-255-963, 23-270-183, 23-291-476, 23-291-471, 23-005-83

Synonyms Safranin

Recommended Use Laboratory chemicals.

Uses advised against No Information available

Details of the supplier of the safety data sheet

Company	Emergency Telephone Number
Richard Allan Scientific A Subsidiary of Thermo Fisher Scientific 4481 Campus Drive Kalamazoo, MI 49008 Tel: (800) 522-7270	Chemtrec US: (800) 424-9300 Chemtrec EU: 001 (202) 483-7616

2. Hazard(s) identification

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 3
Carcinogenicity	Category 1A
Specific target organ toxicity (single exposure)	Category 1
Target Organs - Central nervous system (CNS).	
Specific target organ toxicity - (repeated exposure)	Category 2
Target Organs - Kidney, Liver.	

Label Elements

Signal Word

Danger

Hazard Statements

Flammable liquid and vapor
May cause drowsiness or dizziness
May cause cancer
Causes damage to organs
May cause damage to organs through prolonged or repeated exposure



Precautionary Statements**Prevention**

Obtain special instructions before use
 Do not handle until all safety precautions have been read and understood
 Use personal protective equipment as required
 Do not breathe dust/fume/gas/mist/vapors/spray
 Wash face, hands and any exposed skin thoroughly after handling
 Do not eat, drink or smoke when using this product
 Use only outdoors or in a well-ventilated area
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking
 Keep container tightly closed
 Ground/bond container and receiving equipment
 Use explosion-proof electrical/ventilating/lighting/equipment
 Use only non-sparking tools
 Take precautionary measures against static discharge
 Keep cool

Response

IF exposed: Call a POISON CENTER or doctor/physician

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Call a POISON CENTER or doctor/physician if you feel unwell

Skin

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower

Fire

In case of fire: Use CO₂, dry chemical, or foam for extinction

Storage

Store locked up
 Store in a well-ventilated place. Keep container tightly closed

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)**Other hazards**

WARNING! This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

Unknown Acute Toxicity

.? % of the mixture consists of ingredients of unknown toxicity.

3. Composition / information on ingredients

Component	CAS-No	Weight %
Water	7732-18-5	80-85
Ethyl alcohol	64-17-5	16 - 18
Methyl alcohol	67-56-1	1 - 2
Safranin O, certified	477-73-6	< 1

4. First-aid measures

Eye Contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.

Skin Contact

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

Inhalation

Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.

Ingestion

Do not induce vomiting. Obtain medical attention.

Most important symptoms/effects	Breathing difficulties. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting
Notes to Physician	Treat symptomatically

5. Fire-fighting measures

Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media	No information available
Flash Point	27.78 - 36 °C / 82 - 96.8 °F
Method -	No information available
Autoignition Temperature	No information available
Explosion Limits	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available

Specific Hazards Arising from the Chemical

Flammable. Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated.

Hazardous Combustion Products

Carbon monoxide (CO) Carbon dioxide (CO₂)

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

NFPA

Health	Flammability	Instability	Physical hazards
3	3	0	N/A

6. Accidental release measures

Personal Precautions	Use personal protective equipment. Remove all sources of ignition. Take precautionary measures against static discharges.
Environmental Precautions	Should not be released into the environment. See Section 12 for additional ecological information.
Methods for Containment and Clean Up	Remove all sources of ignition. Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Take precautionary measures against static discharges.

7. Handling and storage

Handling	Wear personal protective equipment. Keep away from open flames, hot surfaces and sources of ignition. Do not get in eyes, on skin, or on clothing. Do not breathe vapors or spray mist. Take precautionary measures against static discharges.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat and sources of ignition. Flammables area.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ethyl alcohol	STEL: 1000 ppm	(Vacated) TWA: 1000 ppm (Vacated) TWA: 1900 mg/m ³ TWA: 1000 ppm TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³
Methyl alcohol	TWA: 200 ppm STEL: 250 ppm Skin	(Vacated) TWA: 200 ppm (Vacated) TWA: 260 mg/m ³ (Vacated) STEL: 250 ppm (Vacated) STEL: 325 mg/m ³ Skin TWA: 200 ppm TWA: 260 mg/m ³	IDLH: 6000 ppm TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 250 ppm STEL: 325 mg/m ³

Component	Quebec	Mexico OEL (TWA)	Ontario TWAEV
Ethyl alcohol	TWA: 1000 ppm TWA: 1880 mg/m ³	TWA: 1000 ppm TWA: 1900 mg/m ³	STEL: 1000 ppm
Methyl alcohol	TWA: 200 ppm TWA: 262 mg/m ³ STEL: 250 ppm STEL: 328 mg/m ³ Skin	TWA: 200 ppm TWA: 260 mg/m ³ STEL: 250 ppm STEL: 310 mg/m ³	TWA: 200 ppm STEL: 250 ppm Skin

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

Engineering Measures

Ensure adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical State	Liquid
Appearance	Red
Odor	Alcohol-like, pungent
Odor Threshold	No information available
pH	No information available
Melting Point/Range	No data available
Boiling Point/Range	95 °C / 203 °F
Flash Point	27.78 - 36 °C / 82 - 96.8 °F
Evaporation Rate	No information available
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	No information available

Relative Density	1
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	No information available

10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions.
Conditions to Avoid	Incompatible products. Heat, flames and sparks.
Incompatible Materials	Strong oxidizing agents, Acids, Acid anhydrides, Acid chlorides, Peroxides, Metals
Hazardous Decomposition Products	Carbon monoxide (CO), Carbon dioxide (CO ₂)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information	No acute toxicity information is available for this product
Oral LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Dermal LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Vapor LC50	Based on ATE data, the classification criteria are not met. ATE > 20 mg/l.

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Ethyl alcohol	7060 mg/kg (Rat)	Not listed	20000 ppm/10H (Rat)
Methyl alcohol	6200 mg/kg (Rat)	15800 mg/kg (Rabbit)	64000 ppm (Rat) 4 h 83.2 mg/L (Rat) 4 h

Toxicologically Synergistic Products	No information available
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Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation	No information available
-------------------	--------------------------

Sensitization	No information available
----------------------	--------------------------

Carcinogenicity	The table below indicates whether each agency has listed any ingredient as a carcinogen.
------------------------	--

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed	Not listed
Ethyl alcohol	64-17-5	Group 1	Not listed	A3	X	Not listed
Methyl alcohol	67-56-1	Not listed	Not listed	Not listed	Not listed	Not listed
Safranin O, certified	477-73-6	Not listed	Not listed	Not listed	Not listed	Not listed

ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration)

Mexico - Occupational Exposure Limits - Carcinogens

A1 - Known Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Animal Carcinogen

ACGIH: (American Conference of Governmental Industrial Hygienists)
OSHA: (Occupational Safety & Health Administration)
X - Present

Mexico - Occupational Exposure Limits - Carcinogens
A1 - Confirmed Human Carcinogen
A2 - Suspected Human Carcinogen
A3 - Confirmed Animal Carcinogen
A4 - Not Classifiable as a Human Carcinogen

A5 - Not Suspected as a Human Carcinogen

Mutagenic Effects	No information available
Reproductive Effects	Adverse reproductive effects have occurred in humans.
Developmental Effects	Substances known to cause developmental toxicity in humans.
Teratogenicity	Teratogenic effects have occurred in humans.
STOT - single exposure	Central nervous system (CNS)
STOT - repeated exposure	Kidney Liver
Aspiration hazard	No information available
Symptoms / effects, both acute and delayed	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting
Endocrine Disruptor Information	No information available
Other Adverse Effects	Tumorigenic effects have been reported in experimental animals. See actual entry in RTECS for complete information.

12. Ecological information

Ecotoxicity

Do not empty into drains.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Ethyl alcohol	EC50 (72h) = 275 mg/l (Chlorella vulgaris)	Fathead minnow (Pimephales promelas) LC50 = 14200 mg/l/96h	Photobacterium phosphoreum: EC50 = 34634 mg/L/30 min Photobacterium phosphoreum: EC50 = 35470 mg/L/5 min	EC50 = 9268 mg/L/48h EC50 = 10800 mg/L/24h
Methyl alcohol	Not listed	Pimephales promelas: LC50 > 10000 mg/L 96h	EC50 = 39000 mg/L 25 min EC50 = 40000 mg/L 15 min EC50 = 43000 mg/L 5 min	EC50 > 10000 mg/L 24h

Persistence and Degradability No information available
Bioaccumulation/ Accumulation No information available.

Mobility

Component	log Pow
Ethyl alcohol	-0.32
Methyl alcohol	-0.74

13. Disposal considerations

Waste Disposal Methods Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Component	RCRA - U Series Wastes	RCRA - P Series Wastes
Methyl alcohol - 67-56-1	U154	-

14. Transport information

DOT

UN-No UN1170
Proper Shipping Name ETHANOL SOLUTION
Hazard Class 3
Packing Group III

TDG

UN-No UN1170

Proper Shipping Name ETHANOL SOLUTION
 Hazard Class 3
 Packing Group III

IATA

UN-No UN1170
 Proper Shipping Name ETHANOL SOLUTION
 Hazard Class 3
 Packing Group III

IMDG/IMO

UN-No UN1170
 Proper Shipping Name ETHANOL SOLUTION
 Hazard Class 3
 Packing Group III

15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Water	X	X	-	231-791-2	-		X	-	X	X	X
Ethyl alcohol	X	X	-	200-578-6	-		X	X	X	X	X
Methyl alcohol	X	X	-	200-659-6	-		X	X	X	X	X
Safranin O, certified	X	X	-	207-518-8	-		X	X	X	X	X

Legend:

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B)).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313

Component	CAS-No	Weight %	SARA 313 - Threshold Values %
Methyl alcohol	67-56-1	1 - 2	1.0

SARA 311/312 Hazardous Categorization

Acute Health Hazard Yes
 Chronic Health Hazard Yes
 Fire Hazard Yes
 Sudden Release of Pressure Hazard No
 Reactive Hazard No

Clean Water Act Not applicable

Clean Air Act

Component	HAPS Data	Class 1 Ozone Depletors	Class 2 Ozone Depletors
Methyl alcohol	X		-

OSHA Occupational Safety and Health Administration

Not applicable

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Component	Hazardous Substances RQs	CERCLA EHS RQs
Methyl alcohol	5000 lb	-

California Proposition 65 This product contains the following Proposition 65 chemicals: Ethyl alcohol is only a considered a Proposition 65 developmental hazard when it is ingested as an alcoholic beverage

Component	CAS-No	California Prop. 65	Prop 65 NSRL	Category
Ethyl alcohol	64-17-5	Developmental	-	Developmental Carcinogen
Methyl alcohol	67-56-1	Developmental	-	Developmental

State Right-to-Know

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Water	-	-	X	-	-
Ethyl alcohol	X	X	X	X	X
Methyl alcohol	X	X	X	X	X

U.S. Department of Transportation

Reportable Quantity (RQ): Y
 DOT Marine Pollutant N
 DOT Severe Marine Pollutant N

U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade Serious risk, Grade 3

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D2A Very toxic materials
 B2 Flammable liquid



16. Other information

Prepared By Regulatory Affairs
 Richard Allan Scientific
 A Subsidiary of Thermo Fisher Scientific
 Tel: (800) 522-7270

Creation Date 06-Aug-2014
Revision Date 06-Aug-2014
Print Date 06-Aug-2014
Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS



Product Name:	Simmons Citrate Agar
Catalog Number:	L80

Dear Customer:

This product does not require a Safety Data Sheet under the Occupational Health and Safety Administration standard entitled "Hazardous Communication" 29 CFR 1910.1200 for the United States.

Additionally, the product does not meet the criteria for W.H.M.I.S. classification as a controlled product. As a result, a W.H.M.I.S. Safety Data Sheet is not required (in Canada) for this product.

If you have any questions, please contact us at (800) 266-2222 option 2 or via email at TechService@HardyDiagnostics.com

Sincerely,

Quality Assurance Department
Hardy Diagnostics

Dear Customer:

This product does not require a Safety Data Sheet under the Occupational Health and Safety Administration standard entitled "Hazardous Communication" 29 CFR 1910.1200 for the United States.

Additionally, the product does not meet the criteria for W.H.M.I.S. classification as a controlled product. As a result, a W.H.M.I.S. Safety Data Sheet is not required (in Canada) for this product.

If you have any questions, please contact us at (800) 266-2222 option 2 or via email at TechService@HardyDiagnostics.com

Sincerely,

Quality Assurance Department
Hardy Diagnostics

021015sw

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HDRA 4277A Rev. 093014vr

HDRA 4277A Rev. 093014vr

SAFETY DATA SHEET

Version 4.4
Revision Date 08/21/2014
Print Date 04/28/2016

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifiers

Product name : Simmons Citrate Agar

Product Number : 85463

Brand : Sigma-Aldrich

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832

Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Synonyms : Citrate Utilization Test

No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES

4.1 Description of first aid measures

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

- 4.2 Most important symptoms and effects, both acute and delayed**
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- 4.3 Indication of any immediate medical attention and special treatment needed**
No data available
-

5. FIREFIGHTING MEASURES

- 5.1 Extinguishing media**
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture**
No data available
- 5.3 Advice for firefighters**
Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information**
No data available
-

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Avoid dust formation. Avoid breathing vapours, mist or gas.
For personal protection see section 8.
- 6.2 Environmental precautions**
Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up**
Sweep up and shovel. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections**
For disposal see section 13.
-

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
Provide appropriate exhaust ventilation at places where dust is formed.
For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities**
Keep container tightly closed in a dry and well-ventilated place.

hygroscopic Moisture sensitive. Keep in a dry place.
- 7.3 Specific end use(s)**
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
-

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
Components with workplace control parameters
Contains no substances with occupational exposure limit values.
- 8.2 Exposure controls**
Appropriate engineering controls
General industrial hygiene practice.
- Personal protective equipment**
Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

a) Appearance	Form: powder Colour: beige
b) Odour	No data available
c) Odour Threshold	No data available
d) pH	7.0
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or explosive limits	No data available
k) Vapour pressure	No data available
l) Vapour density	No data available
m) Relative density	No data available
n) Water solubility	No data available
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
q) Decomposition temperature	No data available
r) Viscosity	No data available
s) Explosive properties	No data available
t) Oxidizing properties	No data available

9.2 Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Avoid moisture.

10.5 Incompatible materials

Strong oxidizing agents

10.6 Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

No data available

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Stomach - Irregularities - Based on Human Evidence (Magnesium(II) sulfate heptahydrate)

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION**DOT (US)**

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION**SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components

Agar

Sodium chloride

Trisodium citrate

CAS-No.

9002-18-0

7647-14-5

68-04-2

Revision Date

Ammonium sodium phosphate dibasic tetrahydrate 7783-13-3

New Jersey Right To Know Components

	CAS-No.	Revision Date
Agar	9002-18-0	
Sodium chloride	7647-14-5	
Trisodium citrate	68-04-2	
Ammonium sodium phosphate dibasic tetrahydrate	7783-13-3	

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

HMIS Rating

Health hazard:	1
Chronic Health Hazard:	*
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	1
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 4.4

Revision Date: 08/21/2014

Print Date: 04/28/2016

Safety Data Sheet

Sodium Benzoate Taste Test Papers



Section 1 Product Description

Product Name: Sodium Benzoate Taste Test Papers
Recommended Use: Science education applications
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

GHS Classification:

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Sodium Benzoate	532-32-1	0.02

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact: After contact with skin, wash immediately with plenty of water.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide, Sodium Oxides

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: No adverse health affects expected from the clean-up of spilled material.
No special spill clean-up considerations. Collect and discard in regular trash.

Section 7 Handling and Storage

Storage: Keep container tightly closed in a cool, well-ventilated place.
Storage Code: Green - general chemical storage

Safety Data Sheet

Section 8

Protection Information

Chemical Name	ACGIH		OSHA PEL	
	(TWA)	(STEL)	(TWA)	(STEL)
Sodium Benzoate	N/A	N/A	N/A	N/A

Control Parameters

Engineering Measures:

No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE):

Lab coat, apron, eye wash, safety shower.

Respiratory Protection:

No respiratory protection required under normal conditions of use.

Eye Protection:

Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection:

Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves:

Natural rubber, Neoprene, PVC or equivalent.

Section 9

Physical Data

Formula: See Section 3

Molecular Weight:

Appearance: Solid

Odor: No data available

Odor Threshold: No data available

pH: No data available

Melting Point: No data available

Boiling Point: No data available

Flash Point: No data available

Flammable Limits in Air: No data available

Vapor Pressure: No data available

Evaporation Rate (BuAc=1): No data available

Vapor Density (Air=1): No data available

Specific Gravity: No data available

Solubility in Water: No data available

Log Pow (calculated): No data available

Autoignition Temperature: No data available

Decomposition Temperature: No data available

Viscosity: No data available

Percent Volatile by Volume: No data available

Section 10

Reactivity Data

Reactivity:

No data available

Chemical Stability:

Stable under normal conditions.

Conditions to Avoid:

None known.

Hazardous Decomposition Products:

Sodium Oxides, Carbon dioxide, Carbon monoxide

Hazardous Polymerization:

Will not occur

Section 11

Toxicity Data

Symptoms (Acute): No data available

Delayed Effects: No data available

Acute Toxicity:

Chemical Name

Sodium Benzoate

CAS Number

532-32-1

Oral LD50

Oral LD50 Rat
2100 mg/kg

Dermal LD50

Inhalation LC50

Carcinogenicity:

Chemical Name

Sodium Benzoate

CAS Number

532-32-1

IARC

Not listed

NTP

Not listed

OSHA

Not listed

Chronic Effects:

Mutagenicity:

No evidence of a mutagenic effect.

Teratogenicity:

No evidence of a teratogenic effect (birth defect).

Safety Data Sheet

Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: No data available
Chronic: No data available

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.
Mobility: No data
Persistence: No data
Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical Name	CAS Number	Eco Toxicity
Sodium Benzoate	532-32-1	Aquatic LC50 (96h) Fathead Minnow > 100 MG/L Aquatic EC50 (48h) Daphnia < 650 MG/L

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): Not Determined

Section 14 Transport Information

Ground - DOT Proper Shipping Name: Not regulated for transport by US DOT.	Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.
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Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Sodium Benzoate	532-32-1	No	No	No	No	No

Section 16 Additional Information

Revised: 09/12/2014

Replaces: 09/03/2014

Printed: 09-12-2014

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

Safety Data Sheet

Sodium Hydroxide, 0.1M

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Sodium Hydroxide, 0.1M
Recommended Use: Science education applications
Synonyms: Soda Lye, Sodium Hydroxide 0.1N, Caustic Soda, Lye
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

DANGER



Causes skin irritation. Causes serious eye damage. Harmful to aquatic life.

GHS Classification:

Serious Eye Damage/Eye Irritation Category 1, Skin Corrosion/Irritation Category 2, Hazardous to the aquatic environment - Acute Category 3

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	99.74
Sodium Hydroxide	1310-73-2	0.26

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use media suitable to extinguish surrounding fire.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Safety Data Sheet

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill.

Environmental Precautions:

Avoid breathing material. Avoid contact with skin and eyes. Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7 Handling and Storage

Handling: Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin and eyes.
Storage: Keep container tightly closed in a cool, well-ventilated place.
Storage Code: Green - general chemical storage

Section 8 Protection Information

Chemical Name	ACGIH		OSHA PEL	
	(TWA)	(STEL)	(TWA)	(STEL)
Sodium Hydroxide	N/A	N/A	2 mg/m3 TWA	N/A

Control Parameters

Engineering Measures: Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Respirator Type(s): None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: Nitrile, Neoprene, Natural latex,

Section 9 Physical Data

Formula: NaOH (aq)	Vapor Pressure: No data available
Molecular Weight: 40.00 (Sodium Hydroxide)	Evaporation Rate (BuAc=1): No data available
Appearance: Colorless Liquid	Vapor Density (Air=1): No data available
Odor: None	Specific Gravity: > 1.0
Odor Threshold: No data available	Solubility in Water: Soluble
pH: 13	Log Pow (calculated): No data available
Melting Point: No data available	Autoignition Temperature: No data available
Boiling Point: No data available	Decomposition Temperature: No data available
Flash Point: No data available	Viscosity: No data available
Flammable Limits in Air: No data available	Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.
Chemical Stability: Stable under normal conditions.
Conditions to Avoid: None known.
Incompatible Materials: Water-reactive materials
Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry Ingestion, Skin contact.

Safety Data Sheet

Symptoms (Acute): Gastrointestinal,
Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Water	7732-18-5	Oral LD50 Rat 90000 mg/kg		

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
Sodium Hydroxide	1310-73-2	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.
Teratogenicity: No evidence of a teratogenic effect (birth defect).
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: No information available
Chronic: No information available

Section 12

Ecological Data

Overview: This material is not expected to be harmful to the ecology.
Mobility: This material is expected to have very high mobility in soil. It does not absorb to most soil types.
Persistence: Dissolved into water
Bioaccumulation: Bioconcentration is not expected to occur.
Degradability: No data
Other Adverse Effects: No data

Chemical Name	CAS Number	Eco Toxicity
Water	7732-18-5	No data available
Sodium Hydroxide	1310-73-2	Aquatic LC50 (96h) Rainbow Trout 45.4 MG/L

Section 13

Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): If discarded, this product is considered a RCRA corrosive waste, D002.

Section 14

Transport Information

Ground - DOT Proper Shipping Name: Not regulated for transport by US DOT.
Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

Section 15

Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Sodium Hydroxide	1310-73-2	No	1000 lb RQ	1000lb (454kg) final RQ	No	No

Section 16

Additional Information

Revised: 09/09/2015

Replaces: 08/19/2015

Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Safety Data Sheet

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

Safety Data Sheet

Specimens in Carolina's Perfect Solution®

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Specimens in Carolina's Perfect Solution®
Recommended Use: Science education applications
Synonyms: Specimens in Carosafe 2000
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING

Causes mild skin irritation

GHS Classification:
Skin Corrosion/Irritation Category 3

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
The composition of this mixture is proprietary and is protected as a Trade Secret.	Proprietary	100

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact: After contact with skin, wash immediately with plenty of water.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use dry chemical, CO2 or appropriate foam.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Ventilate the contaminated area.

Safety Data Sheet

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7 Handling and Storage

Handling: Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection.
Storage: Keep container tightly closed in a cool, well-ventilated place.
Storage Code: Green - general chemical storage

Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
Proprietary ingredient	N/A	1000 ppm	1000 ppm	N/A

Control Parameters

Engineering Measures: No data available. No special ventilation requirements
Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.
Respiratory Protection: No respiratory protection required under normal conditions of use. Provide general room exhaust ventilation if symptoms of overexposure occur as explained Section 11. A respirator is not normally required.
Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.
Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.
Gloves: Butyl rubber, Neoprene, Nitrile, Polyvinyl chloride

Section 9 Physical Data

Formula: See Section 3	Vapor Pressure: No data available
Molecular Weight: Not applicable.	Evaporation Rate (BuAc=1): No data available
Appearance: Colorless Preserved Specimen	Vapor Density (Air=1): 0.9887
Odor: Moderate distinct biological and organic solvent odor	Specific Gravity: .99 (Carolina's Perfect Solution®)
Odor Threshold: No data available	Solubility in Water: Soluble
pH: 7	Log Pow (calculated): No data available
Melting Point: No data available	Autoignition Temperature: No data available
Boiling Point: No data available	Decomposition Temperature: No data available
Flash Point: > 93 C	Viscosity: No data available
Flammable Limits in Air: No data available	Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity: Not generally reactive under normal conditions.
Chemical Stability: Stable under normal conditions.
Conditions to Avoid: Elevated temperatures
Incompatible Materials: Strong acids, Strong oxidizing agents
Hazardous Decomposition Products: Carbon dioxide, Carbon monoxide
Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry: Inhalation and ingestion.
Symptoms (Acute): Respiratory Irritation
Delayed Effects: Respiratory Irritation
Dermatitis
Headache

Acute Toxicity:	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Chemical Name				

Safety Data Sheet

Specimens in Carolina's Perfect Solution® Proprietary Oral LD50 Rat > 5000 mg/kg Dermal LD50 Rabbit Estimated > 20000 mg/kg Inhalation LC50 (4h) Rat Estimated > 20000 ppm

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
No data available	Proprietary	Not listed	Not listed	Not listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.
Teratogenicity: Evidence of a teratogenic effect (birth defect).
Teratogenic effect only observed for chronic ingestion route of entry for one component.
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: No information available
Chronic: No information available

Section 12 Ecological Data

Overview: This material is not expected to be harmful to the ecology.
Mobility: This material is expected to have high mobility in soil. It absorbs weakly to most soil types.
Persistence: Dissolved into water, Biodegradation, Evaporation into atmosphere
Bioaccumulation: Bioconcentration is not expected to occur.
Degradability: Biodegrades slowly.
Other Adverse Effects: Material has microbiocidal properties.

Chemical Name	CAS Number	Eco Toxicity
Specimens in Carolina's Perfect Solution®	Proprietary	

Section 13 Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): This material is not considered to be a RCRA hazardous waste.

Section 14 Transport Information

Ground - DOT Proper Shipping Name:	Air - IATA Proper Shipping Name:
Not regulated for transport by US DOT	Not regulated for air transport by IATA.

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
No data available	Proprietary	No	No	No	No	No

California Prop 65: WARNING: This product contains a chemical known to the state of California to cause cancer.

Section 16 Additional Information

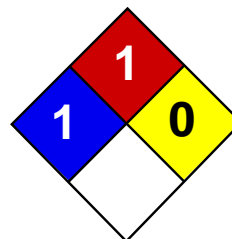
Revised: 09/09/2015 **Replaces:** 08/13/2015 **Printed:** 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

Safety Data Sheet

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health



Health	1
Fire	1
Reactivity	0
Personal Protection	E

Material Safety Data Sheet Starch, Potato MSDS

Section 1: Chemical Product and Company Identification

Product Name: Starch, Potato

Catalog Codes: SLS3448

CAS#: 9005-25-8

RTECS: GM5090000

TSCA: TSCA 8(b) inventory: Starch

CI#: Not available.

Synonym: Potato Starch

Chemical Name: Starch

Chemical Formula: Not available.

Contact Information:

Sciencelab.com, Inc.

14025 Smith Rd.

Houston, Texas 77396

US Sales: **1-800-901-7247**

International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call:

1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Starch	9005-25-8	100

Toxicological Data on Ingredients: Not applicable.

Section 3: Hazards Identification

Potential Acute Health Effects: Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation.

Potential Chronic Health Effects:

CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH. MUTAGENIC EFFECTS: Not available.

TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. Repeated or prolonged exposure is not known to aggravate medical condition.

Section 4: First Aid Measures

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

Skin Contact: Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.

Serious Skin Contact: Not available.

Inhalation:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Serious Inhalation: Not available.

Ingestion:

Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: May be combustible at high temperature.

Auto-Ignition Temperature: Not available.

Flash Points: Not available.

Flammable Limits: Not available.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Slightly flammable to flammable in presence of heat.

Explosion Hazards in Presence of Various Substances:

Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions:

SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.

Special Remarks on Fire Hazards: Not available.

Special Remarks on Explosion Hazards: Not available.

Section 6: Accidental Release Measures

Small Spill:

Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:

Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust. Keep away from incompatibles such as oxidizing agents.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 23°C (73.4°F).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill:

Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:

TWA: 10 (mg/m³) from ACGIH (TLV) [United States] [1999] Inhalation Total. TWA: 10 (mg/m³) [Canada] Inhalation Total. TWA: 10 (mg/m³) from NIOSH Inhalation Total. TWA: 5 (mg/m³) from NIOSH Inhalation Respirable. TWA: 15 (mg/m³) from OSHA (PEL) [United States] Inhalation Total. TWA: 5 (mg/m³) from OSHA (PEL) [United States] Inhalation Respirable. Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Solid.

Odor: Not available.

Taste: Not available.

Molecular Weight: Not available.

Color: White.

pH (1% soln/water): Not applicable.

Boiling Point: Not available.

Melting Point: Decomposes.

Critical Temperature: Not available.

Specific Gravity: 1.5 (Water = 1)

Vapor Pressure: Not applicable.

Vapor Density: Not available.

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Insoluble in cold water, hot water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Excess heat, incompatible materials.

Incompatibility with various substances: Reactive with oxidizing agents.

Corrosivity: Not available.

Special Remarks on Reactivity: Not available.

Special Remarks on Corrosivity: Not available.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Inhalation. Ingestion.

Toxicity to Animals:

LD50: Not available. LC50: Not available.

Chronic Effects on Humans: CARCINOGENIC EFFECTS: A4 (Not classifiable for human or animal.) by ACGIH.

Other Toxic Effects on Humans: Slightly hazardous in case of skin contact (irritant), of ingestion, of inhalation.

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans: Not available.

Special Remarks on other Toxic Effects on Humans:

Acute Potential Health Effects: Skin: May cause mild skin irritation. Low hazard for usual industrial handling. Eyes: Dust may cause mechanical irritation. Inhalation: Excessive inhalation may cause minor respiratory irritation. Ingestion: A low hazard for usual industrial handling Chronic Potential Health Effects: no information.

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: Not available.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Not a DOT controlled material (United States).

Identification: Not applicable.

Special Provisions for Transport: Not applicable.

Section 15: Other Regulatory Information

Federal and State Regulations:

Rhode Island RTK hazardous substances: Starch Pennsylvania RTK: Starch Minnesota: Starch Massachusetts RTK: Starch Tennessee: Starch TSCA 8(b) inventory: Starch

Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada): Not controlled under WHMIS (Canada).

DSCL (EEC):

This product is not classified according to the EU regulations. S24/25- Avoid contact with skin and eyes.

HMIS (U.S.A.):

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

Personal Protection: E

National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 1

Reactivity: 0

Specific hazard:

Protective Equipment:

Gloves. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Safety glasses.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/09/2005 06:39 PM

Last Updated: 05/21/2013 12:00 PM

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SAFETY DATA SHEET

Version 5.4
Revision Date 08/01/2014
Print Date 04/01/2016

1. PRODUCT AND COMPANY IDENTIFICATION**1.1 Product identifiers**

Product name : Sucrose solution

Product Number : 721891

Brand : Aldrich

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Company : Sigma-Aldrich
3050 Spruce Street
SAINT LOUIS MO 63103
USA

Telephone : +1 800-325-5832

Fax : +1 800-325-5052

1.4 Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Not a hazardous substance or mixture.

2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Sodium Azide may react with lead and copper plumbing to form highly explosive metal azides.

3. COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixtures**

Chemical characterization : Isotopically labeled

No components need to be disclosed according to the applicable regulations.

4. FIRST AID MEASURES**4.1 Description of first aid measures****If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

- 4.2 Most important symptoms and effects, both acute and delayed**
The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
- 4.3 Indication of any immediate medical attention and special treatment needed**
no data available
-

5. FIREFIGHTING MEASURES

- 5.1 Extinguishing media**
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Special hazards arising from the substance or mixture**
no data available
- 5.3 Advice for firefighters**
Wear self contained breathing apparatus for fire fighting if necessary.
- 5.4 Further information**
no data available
-

6. ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Avoid breathing vapours, mist or gas.
For personal protection see section 8.
- 6.2 Environmental precautions**
Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up**
Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections**
For disposal see section 13.
-

7. HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities**
Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Store under inert gas. hygroscopic
- 7.3 Specific end use(s)**
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
-

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- 8.1 Control parameters**
Components with workplace control parameters
Contains no substances with occupational exposure limit values.
- 8.2 Exposure controls**
Appropriate engineering controls
General industrial hygiene practice.
- Personal protective equipment**
Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

- | | |
|---|-------------------|
| a) Appearance | Form: liquid |
| b) Odour | no data available |
| c) Odour Threshold | no data available |
| d) pH | no data available |
| e) Melting point/freezing point | no data available |
| f) Initial boiling point and boiling range | no data available |
| g) Flash point | not applicable |
| h) Evaporation rate | no data available |
| i) Flammability (solid, gas) | no data available |
| j) Upper/lower flammability or explosive limits | no data available |
| k) Vapour pressure | no data available |
| l) Vapour density | no data available |
| m) Relative density | no data available |
| n) Water solubility | no data available |
| o) Partition coefficient: n-octanol/water | no data available |
| p) Auto-ignition temperature | no data available |
| q) Decomposition temperature | no data available |
| r) Viscosity | no data available |
| s) Explosive properties | no data available |
| t) Oxidizing properties | no data available |

9.2 Other safety information

no data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

no data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

no data available

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

Other decomposition products - no data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

no data available

Inhalation: no data available

Dermal: no data available

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

no data available

Additional Information

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Liver - Irregularities - Based on Human Evidence (Sodium azide)

12. ECOLOGICAL INFORMATION**12.1 Toxicity**

no data available

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION**DOT (US)**

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION**SARA 302 Components**

The following components are subject to reporting levels established by SARA Title III, Section 302:

	CAS-No.	Revision Date
Sodium azide	26628-22-8	2007-07-01

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Reportable Quantity : lowest RQ > 999999 lbs

lowest RQ > 999999 lbs

Massachusetts Right To Know Components

	CAS-No.	Revision Date
Sodium azide	26628-22-8	2007-07-01

Pennsylvania Right To Know Components

	CAS-No.	Revision Date
Water	7732-18-5	
Sodium azide	26628-22-8	2007-07-01
Deuterium oxide	7789-20-0	

New Jersey Right To Know Components

	CAS-No.	Revision Date
Water	7732-18-5	
Deuterium oxide	7789-20-0	

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION**HMIS Rating**

Health hazard:	0
Chronic Health Hazard:	
Flammability:	0
Physical Hazard	0

NFPA Rating

Health hazard:	0
Fire Hazard:	0
Reactivity Hazard:	0

Further information

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Preparation Information

Sigma-Aldrich Corporation
Product Safety – Americas Region
1-800-521-8956

Version: 5.4

Revision Date: 08/01/2014

Print Date: 04/01/2016

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)


Printing date 07/06/2015

Reviewed on 07/06/2015

1 Identification

- **Product identifier**
- **Trade name:** **SYSTANE® LUBRICANT EYE DROPS**
- **Other names:** None
- **Recommended use and restriction on use**
- **Recommended use:** Dry Eye Relief Product
- **Restrictions on use:** Contact manufacturer.
- **Details of the supplier of the Safety Data Sheet**
- **Manufacturer/Supplier:**
Alcon Laboratories, Inc.
6201 S. Freeway
Fort Worth, Texas 76134 USA
Tel 1-817-551-4444
E-mail: safety.datasheets@alcon.com
- **Emergency telephone number:**
ChemTel Inc.
(800) 255-3924, +1 (813) 248-0585

2 Hazard(s) identification

- **Classification of the substance or mixture**
The product is not classified as hazardous according to the Globally Harmonized System (GHS).
- **Additional information:**
0 percent of the mixture consists of ingredient(s) of unknown toxicity.
There are no other hazards not otherwise classified that have been identified.
- **Label elements**
- **GHS label elements**
The product is not classified as hazardous according to OSHA GHS regulations within the United States.
- **Hazard pictograms** Not Regulated
- **Signal word** Not Regulated
- **Hazard-determining components of labeling:** None.
- **Hazard statements** Not Regulated
- **Precautionary statements** Not Regulated
- **Hazard description:**
- **WHMIS-symbols:** Not hazardous under WHMIS.
- **Classification system:**
- **NFPA ratings (scale 0 - 4)**

 - Health = 0
 - Fire = 0
 - Reactivity = 0
- **HMIS-ratings (scale 0 - 4)**

HEALTH	0
FIRE	0
REACTIVITY	0

 - Health = 0
 - Fire = 0
 - Reactivity = 0
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.

(Contd. on page 2)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/06/2015

Reviewed on 07/06/2015

Trade name: SYSTANE® LUBRICANT EYE DROPS

- **vPvB:** Not applicable.

(Contd. of page 1)

3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:** None in reportable quantities.
- **Additional information:**
For the listed ingredients, the identity and exact percentages are being withheld as a trade secret.

4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
Generally the product does not irritate the skin.
Wash with soap and water.
If skin irritation is experienced, consult a doctor.
- **After eye contact:**
Product is indicated for ocular usage. In case of persistent or severe irritation after usage, discontinue use and seek medical advice.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
Do not induce vomiting; immediately call for medical help.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**
Adverse health effects are not reasonably expected from normal use of product.
- **Danger** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** None.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.
- **Additional information** No further relevant information available.

(Contd. on page 3)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/06/2015

Reviewed on 07/06/2015

Trade name: SYSTANE® LUBRICANT EYE DROPS

(Contd. of page 2)

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation.

For large spills, wear protective clothing.

- **Environmental precautions:** No special measures required.

- **Methods and material for containment and cleaning up:**

Absorb liquid components with liquid-binding material.

Dispose contaminated material as waste according to item 13.

- **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- **Handling:**

- **Precautions for safe handling** No special measures required.

- **Information about protection against explosions and fires:** No special measures required.

- **Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

Avoid storage near extreme heat, ignition sources or open flame.

- **Information about storage in one common storage facility:** Store away from foodstuffs.

- **Further information about storage conditions:**

Keep receptacle tightly sealed.

Storage Temperatures : 59 - 86 ° F / 15 - 30 ° C.

- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

- **Control parameters**

- **Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- **Additional information:** The lists that were valid during the creation were used as basis.

- **Exposure controls**

- **Personal protective equipment:**

- **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

- **Engineering controls:** No further relevant information available.

- **Breathing equipment:** Not required under normal conditions of use.

(Contd. on page 4)

Safety Data Sheet

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Printing date 07/06/2015

Reviewed on 07/06/2015

Trade name: SYSTANE® LUBRICANT EYE DROPS

(Contd. of page 3)

- **Protection of hands:**
Gloves not required under normal conditions of use.
Wear protective gloves to handle contents of damaged or leaking units.
- **Material of gloves** Rubber gloves
- **Eye protection:**
Not required for normal handling. Wear protective eyewear while handling damaged or leaking product.
- **Body protection:** Not required under normal conditions of use.
- **Limitation and supervision of exposure into the environment** No special requirements.
- **Risk management measures** No special requirements.

9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**
 - **Form:** Liquid
 - **Color:** Colorless
- **Odor:** Odorless
- **Odor threshold:** Not determined.
- **pH-value at 20 °C (68 °F):** 7
- **Change in condition**
 - **Melting point/Melting range:** Undetermined.
 - **Boiling point/Boiling range:** Undetermined.
- **Flash point:** The product is not flammable.
- **Flammability (solid, gaseous):** Not applicable.
- **Auto-ignition temperature:** Not determined.
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not self-igniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
 - **Lower:** Not determined.
 - **Upper:** Not determined.
- **Vapor pressure:** Not determined.
- **Density:** Not determined.
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with**
 - **Water:** Fully miscible.
- **Partition coefficient (n-octanol/water):** Not determined.

(Contd. on page 5)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/06/2015

Reviewed on 07/06/2015

Trade name: SYSTANE® LUBRICANT EYE DROPS

(Contd. of page 4)

- **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **Solvent content:**
 - Organic solvents:** Not determined.
 - Water:** Not determined.
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** Possible in traces.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **LD/LC50 values that are relevant for classification:** None.
- **Primary irritant effect:**
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Subacute to chronic toxicity:** No further relevant information available.
- **Additional toxicological information:**
The product is not subject to classification according to internally approved calculation methods for preparations:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- **Carcinogenic categories**
- **NTP (National Toxicology Program)**
None of the ingredients is listed.
- **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.
- **Probable Routes of Exposure**
Inhalation.
Eye contact.
Skin contact.

(Contd. on page 6)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/06/2015

Reviewed on 07/06/2015

Trade name: SYSTANE® LUBRICANT EYE DROPS

- **Repeated Dose Toxicity:** No further relevant information available.

(Contd. of page 5)

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Not known to be hazardous to water.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
Smaller quantities can be disposed of with household waste.
The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- | | |
|--|-----------------|
| · UN-Number | |
| · DOT, ADR, ADN, IMDG, IATA | Not Regulated |
| · UN proper shipping name | |
| · DOT, ADR, ADN, IMDG, IATA | Not Regulated |
| · Transport hazard class(es) | |
| · DOT, ADR, ADN, IMDG, IATA | |
| · Class | Not Regulated |
| · Packing group | |
| · DOT, ADR, IMDG, IATA | Not Regulated |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | - |

(Contd. on page 7)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/06/2015

Reviewed on 07/06/2015

Trade name: SYSTANE® LUBRICANT EYE DROPS

(Contd. of page 6)

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

- **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

- **Section 313 (Specific toxic chemical listings):**

None of the ingredients are listed.

- **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

- **Proposition 65 (California)**

- **Chemicals known to cause cancer:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

- **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

- **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

- **Carcinogenic categories**

- **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

- **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

- **State Right to Know Listings**

None of the ingredients is listed.

- **Canadian substance listings:**

- **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

- **Canadian Ingredient Disclosure list (limit 0.1%)**

None of the ingredients is listed.

- **Canadian Ingredient Disclosure list (limit 1%)**

None of the ingredients is listed.

(Contd. on page 8)

Safety Data Sheet

acc. to OSHA HCS (29 CFR 1910.1200)

Printing date 07/06/2015

Reviewed on 07/06/2015

Trade name: SYSTANE® LUBRICANT EYE DROPS

(Contd. of page 7)

· Other regulations, limitations and prohibitive regulations

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations.

- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Date of preparation / last revision** 07/06/2015 / -

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System (Canada)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

· Sources

SDS Prepared by:

ChemTel Inc.

1305 North Florida Avenue

Tampa, Florida USA 33602-2902

Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

Website: www.chemtelinc.com

Safety Data Sheet

Thiourea Taste Test Strips

CAROLINA[®]
www.carolina.com

Section 1 Product Description

Product Name: Thiourea Taste Test Strips
Recommended Use: Science education applications
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Classification:

Other Safety Precautions: May cause irritation.
May cause gastrointestinal discomfort.
May cause irritation to respiratory tract.
May cause irritation to skin.

Section 3 Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Thiourea	62-56-6	0.02

Thiourea is hazardous, but it has been calculated that each test strip contains less than 0.3 mg of thiourea, far below the toxicity level.

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact: After contact with skin, wash immediately with plenty of water.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use alcohol resistant foam, carbon dioxide, dry chemical, or water spray when fighting fires. Water or foam may cause frothing if liquid is burning but it still may be a useful extinguishing agent if carefully applied to the fire. Do not direct a water stream directly into the hot burning liquid.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Fire and/or Explosion Hazards: Acrid smoke and irritating fumes.

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled: No adverse health affects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Poses little or no immediate hazard
Contain the discharged material.

Safety Data Sheet

Section 7 Handling and Storage

Storage: Keep container tightly closed in a cool, well-ventilated place.
Storage Code: Green - general chemical storage

Section 8 Protection Information

<u>Chemical Name</u>	<u>ACGIH</u>		<u>OSHA PEL</u>	
	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	<u>(STEL)</u>
No data available	N/A	N/A	N/A	N/A

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: Natural rubber, Neoprene, PVC or equivalent.

Section 9 Physical Data

Formula: See Section 3	Vapor Pressure: No data available
Molecular Weight:	Evaporation Rate (BuAc=1): No data available
Appearance: Solid	Vapor Density (Air=1): No data available
Odor: No data available	Specific Gravity: No data available
Odor Threshold: No data available	Solubility in Water: No data available
pH: No data available	Log Pow (calculated): No data available
Melting Point: No data available	Autoignition Temperature: No data available
Boiling Point: No data available	Decomposition Temperature: No data available
Flash Point: No data available	Viscosity: No data available
Flammable Limits in Air: No data available	Percent Volatile by Volume: No data available

Section 10 Reactivity Data

Reactivity: No data available

Chemical Stability: Stable under normal conditions.

Conditions to Avoid: None known.

Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Symptoms (Acute): No data available
Delayed Effects: No data available

Acute Toxicity:

Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Thiourea	62-56-6	Oral LD50 Rat 125 mg/kg		

Carcinogenicity:

Chemical Name	CAS Number	IARC	NTP	OSHA
---------------	------------	------	-----	------

Safety Data Sheet

Thiourea

62-56-6

Not listed

Listed

Listed

Chronic Effects:

Mutagenicity: No evidence of a mutagenic effect.
Teratogenicity: No evidence of a teratogenic effect (birth defect).
Sensitization: No evidence of a sensitization effect.
Reproductive: No evidence of negative reproductive effects.
Target Organ Effects:
Acute: See Section 2
Chronic: No data available

Section 12

Ecological Data

Overview: This material is not expected to be harmful to the ecology.
Mobility: No data
Persistence: No data
Bioaccumulation: No data
Degradability: No data
Other Adverse Effects: No data

Chemical Name

Thiourea

CAS Number

62-56-6

Eco Toxicity

96 HR LC50 BRACHYDANIO RERIO 10000 MG/L
96 HR LC50 PIMEPHALES PROMELAS > 600 MG/L
48 HR EC50 DAPHNIA MAGNA 35 MG/L
72 HR EC50 DESMODESMUS SUBSPICATUS 3.8 - 10 MG/L
96 HR EC50 DESMODESMUS SUBSPICATUS 6.8 MG/L

Section 13

Disposal Information

Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s): Not Determined

Section 14

Transport Information

Ground - DOT Proper Shipping Name:

Not regulated for transport by US DOT.

Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA.

Safety Data Sheet

Section 15

Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Thiourea	62-56-6	Thiourea	No	10 lb final RQ; 4.54 kg final RQ	No	No

California Prop 65: WARNING: This product contains a chemical known to the state of California to cause cancer, birth defects or other reproductive harm.

Section 16

Additional Information

Revised: 09/03/2014

Replaces: 09/03/2014

Printed: 09-12-2014

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health

Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 03/26/2014


Reviewed On: 03/26/2014

1 Identification

- **Product Identifier**
- **Product Name:** Bacto Tryptic Soy Broth
- **Catalog Number:** 211823
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** *In-vitro Diagnostics*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
BD Diagnostic Systems
7 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771 - 0100 or (800) 638 – 8663
Email Address: Technical_Services@bd.com
- **Information Department:** Technical Service
- **Emergency telephone number:**
In case of a chemical emergency, spill, fire, exposure, or accident, contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

2 Hazard(s) identification

- **Classification of the substance or mixture**
The product is not classified according to the Globally Harmonized System (GHS).
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **NFPA ratings (scale 0-4)**

Health = 1
Flammability = 0
Reactivity = 0
- **HMIS ratings (scale 0-4)**

HEALTH	1	Health = 1
FIRE	0	Flammability = 0
REACTIVITY	0	Reactivity = 0

(Contd. on page 2)

US

Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 03/26/2014

Reviewed On: 03/26/2014

Product Name: Bacto Tryptic Soy Broth

(Contd. of page 1)

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixture**
- **Description:** Mixture consisting of the following components.
- **Dangerous Components:** Void
- **Additional information** Risk phrases refer to section 15.

4 First-aid measures

- **Description of first aid measures**
- **General information** No special measures required.
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**
Rinse opened eye for 15 minutes under running water. Then consult a doctor.
- **After swallowing** If symptoms persist consult doctor.
- **Information for doctor** Show this product label or this MSDS.
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
CO₂, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Wipe up with damp sponge or mop.
- **Methods and material for containment and cleaning up:** No special measures required.

(Contd. on page 3)

Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 03/26/2014

Reviewed On: 03/26/2014

Product Name: Bacto Tryptic Soy Broth

(Contd. of page 2)

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage**· Handling****· Precautions for safe handling** Prevent formation of dust.**· Information about protection against explosions and fires:**

No special measures required.

· Conditions for safe storage, including any incompatibilities**· Storage****· Requirements to be met by storerooms and receptacles:** 2 - 25°C**· Information about storage in one common storage facility:**

Store away from oxidizing agents.

· Further information about storage conditions:

Store in cool, dry conditions in well sealed containers.

· Specific end use(s) No further relevant information available.**8 Exposure controls/personal protection****· Additional information about design of technical systems:**

No further data; see Section 7.

· Control parameters**· Components with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· Additional information: The lists that were valid during the creation were used as basis.**· Exposure controls****· Personal Protective Equipment****· General protective and hygienic measures**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

· Breathing equipment:

In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.

· Protection of hands:

Chemical resistant gloves (i.e. nitrile, or equivalent).

(Contd. on page 4)

Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 03/26/2014

Reviewed On: 03/26/2014

Product Name: Bacto Tryptic Soy Broth

(Contd. of page 3)

- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing (lab coat).

9 Physical and chemical properties· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**

· Form:	Solid.
· Color:	Beige
· Odor:	Characteristic

· **pH-value:** 7.3+/-0.2

- **Change in condition** Undetermined
- **Melting point/Melting range:** Not determined
- **Boiling point/Boiling range:** Not determined

· **Flash point:** Not applicable· **Auto igniting:** Product is not self igniting.· **Danger of explosion:** Product does not present an explosion hazard.· **Density:** Not determined· **Solubility in / Miscibility with**· **Water:** Soluble· **Solvent content:**· **Solids content:** 100.0 %· **Other information** No further relevant information available.**10 Stability and reactivity**· **Reactivity**· **Chemical stability**· **Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· **Possibility of hazardous reactions** No dangerous reactions known· **Conditions to avoid** No further relevant information available.· **Incompatible materials:** Incompatible material: strong oxidizers.· **Hazardous decomposition products:** Chlorine (Cl)

US

(Contd. on page 5)

Date Prepared: 03/26/2014

Reviewed On: 03/26/2014

Product Name: Bacto Tryptic Soy Broth

(Contd. of page 4)

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

7647-14-5 sodium chloride

Oral LD50 3000 mg/kg (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Other information:**
The ecological effects have not been thoroughly investigated, but currently none have been identified.
- **Additional ecological information:**
- **General notes:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

US

(Contd. on page 6)

Safety Data Sheet
 acc. to OSHA HCS

Date Prepared: 03/26/2014

Reviewed On: 03/26/2014

Product Name: Bacto Tryptic Soy Broth

(Contd. of page 5)

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
 Smaller quantities can be disposed of with solid waste.
 Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.
 This product is not considered a RCRA hazardous waste.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to state and federal regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- | | |
|--|-----------------|
| · UN-Number | |
| · DOT, ADR, ADN, IMDG, IATA | Void |
| · UN proper shipping name | |
| · DOT, ADR, ADN, IMDG, IATA | Void |
| · Transport hazard class(es) | |
| · DOT, ADR, ADN, IMDG, IATA | |
| · Class | Void |
| · Packing group | |
| · DOT, ADR, IMDG, IATA | Void |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | - |

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **SARA Section 355 (extremely hazardous substances)**
 None of the ingredients is listed.

(Contd. on page 7)

Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 03/26/2014

Reviewed On: 03/26/2014

Product Name: Bacto Tryptic Soy Broth

(Contd. of page 6)

· SARA Section 313 (specific toxic chemical listings)

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act)

9002-18-0 agar

9000-71-9 casein

7647-14-5 sodium chloride

· California Proposition 65 - Chemicals known to cause cancer

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories**· TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· GHS label elements Void**· Hazard pictograms** Void**· Signal word** Void**· Hazard statements** Void**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**16 Other information**

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.

· Department issuing MSDS:

Environmental, Health & Safety

Created by Michael J. Spinazzola

· Contact: Technical Service Representative**· Date of preparation / last revision** 03/26/2014 / 1**· Abbreviations and acronyms:**RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer
(Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

(Contd. on page 8)



Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 03/26/2014

Reviewed On: 03/26/2014

Product Name: Bacto Tryptic Soy Broth

(Contd. of page 7)

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

US

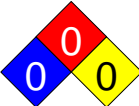
Date Prepared: 03/11/2015

Reviewed On: 03/11/2015

1 Identification

- **Product Identifier**
- **Product Name:** Trypticase Soy Broth w/20% Glycerol
- **Catalog Number:** 297808
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** *In-vitro Diagnostics*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
BD Diagnostic Systems
7 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771 - 0100 or (800) 638 – 8663
Email Address: Technical_Services@bd.com
- **Information Department:** Technical Service
- **Emergency telephone number:**
In case of a chemical emergency, spill, fire, exposure, or accident, contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

2 Hazard(s) identification

- **Classification of the substance or mixture**
The product is not classified according to the Globally Harmonized System (GHS).
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
This product contains no hazardous constituents, or the concentration of all chemical constituents are below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29 CFR 1910.1200, the Canada's Workplace Hazardous Materials Information System (WHMIS) and the European Directive 67/548/EEC and 1999/45/EC.
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **NFPA ratings (scale 0-4)**
 Health = 0
Flammability = 0
Reactivity = 0
- **HMIS ratings (scale 0-4)**

HEALTH	0
FIRE	0
REACTIVITY	0

 Health = 0
Flammability = 0
Reactivity = 0

(Contd. on page 2)

US

Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 03/11/2015

Reviewed On: 03/11/2015

Product Name: Trypticase Soy Broth w/20% Glycerol

(Contd. of page 1)

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixture**
- **Description:** Mixture consisting of the following components.
- **Dangerous Components:** Void
- **Additional information** Risk phrases refer to section 15.

4 First-aid measures

- **Description of first aid measures**
- **General information** No special measures required.
- **After inhalation** Seek medical treatment in case of complaints.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing** If symptoms persist consult doctor.
- **Information for doctor** Show this product label or this SDS.
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
CO₂, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Wipe up with damp sponge or mop.

(Contd. on page 3)

Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 03/11/2015

Reviewed On: 03/11/2015

Product Name: Trypticase Soy Broth w/20% Glycerol

(Contd. of page 2)

- **Methods and material for containment and cleaning up:** No special measures required.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage

- **Handling**
- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:**
No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:**
Store away from oxidizing agents.
- **Further information about storage conditions:**
Store in cool, dry conditions in well sealed containers.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:**
No further data; see Section 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal Protective Equipment**
- **General protective and hygienic measures**
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:**



Chemical resistant gloves (i.e. nitrile, or equivalent).

- **Eye protection:** Safety glasses

(Contd. on page 4)

US

Safety Data Sheet
 acc. to OSHA HCS

Date Prepared: 03/11/2015

Reviewed On: 03/11/2015

Product Name: Trypticase Soy Broth w/20% Glycerol

(Contd. of page 3)

 · **Body protection:** Protective work clothing (lab coat).

9 Physical and chemical properties

 · **Information on basic physical and chemical properties**

 · **General Information**

 · **Appearance:**

Form: Liquid

Color: Beige

 · **Odor:** Characteristic

 · **Odor threshold:** Not determined.

 · **pH-value:** Not determined.

 · **Change in condition** Undetermined

 · **Melting point/Melting range:** Not determined

 · **Boiling point/Boiling range:** Not determined

 · **Flash point:** Not applicable

 · **Flammability (solid, gaseous)** Not applicable.

 · **Ignition temperature:** 400 °C (752 °F)

 · **Decomposition temperature:** Not determined.

 · **Auto igniting:** Product is not self igniting.

 · **Danger of explosion:** Product does not present an explosion hazard.

 · **Explosion limits:**

Lower: 0.9 Vol %

Upper: Not determined.

 · **Vapor pressure at 20 °C (68 °F):** 23 hPa (17 mm Hg)

 · **Density:** Not determined

 · **Relative density** Not determined.

 · **Vapour density** Not determined.

 · **Evaporation rate** Not determined.

 · **Solubility in / Miscibility with**

Water: Soluble

 · **Partition coefficient (n-octanol/water):** Not determined.

 · **Viscosity:**

dynamic: Not determined.

kinematic: Not determined.

 · **Solvent content:**

Organic solvents: 20.0 %

Water: 77.7 %

(Contd. on page 5)

Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 03/11/2015

Reviewed On: 03/11/2015

Product Name: Trypticase Soy Broth w/20% Glycerol

(Contd. of page 4)

· Other information No further relevant information available.**10 Stability and reactivity**

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** Incompatible material: strong oxidizers.
- **Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
 - **on the skin:** No irritating effect.
 - **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
The product is not subject to OSHA classification according to internally approved calculation methods for preparations.
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
This product or product container contains dry natural rubber latex.

· Carcinogenic categories**· IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.

(Contd. on page 6)

Safety Data Sheet acc. to OSHA HCS

Date Prepared: 03/11/2015

Reviewed On: 03/11/2015

Product Name: Trypticase Soy Broth w/20% Glycerol

(Contd. of page 5)

- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Other information:**
The ecological effects have not been thoroughly investigated, but currently none have been identified.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation**
Smaller quantities can be disposed of with solid waste.
This product is not considered a RCRA hazardous waste.
Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to state and federal regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

14 Transport information

- | | |
|---------------------------------------|-----------------|
| · UN-Number | |
| · DOT, ADR, ADN, IMDG, IATA | Void |
| · UN proper shipping name | |
| · DOT, ADR, ADN, IMDG, IATA | Void |
| · Transport hazard class(es) | |
| · DOT, ADR, ADN, IMDG, IATA | |
| · Class | Void |
| · Packing group | |
| · DOT, ADR, IMDG, IATA | Void |
| · Environmental hazards: | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |

(Contd. on page 7)



Safety Data Sheet acc. to OSHA HCS

Date Prepared: 03/11/2015

Reviewed On: 03/11/2015

Product Name: Trypticase Soy Broth w/20% Glycerol

(Contd. of page 6)

- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** *Not applicable.*
- **Transport/Additional information:** *Not dangerous according to the above specifications.*
- **UN "Model Regulation":** *-*

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **SARA Section 355 (extremely hazardous substances)**

None of the ingredients is listed.

· **SARA Section 313 (specific toxic chemical listings)**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act)**

56-81-5	glycerol
9000-71-9	casein
7647-14-5	sodium chloride
50-99-7	dextrose
63-42-3	lactose
9005-65-6	Tween 80
8002-43-5	lecithin
68990-09-0	Beef extract
7732-18-5	water

· **California Proposition 65 - Chemicals known to cause cancer**

None of the ingredients is listed.

· **California Proposition 65 - Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **California Proposition 65 - Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **California Proposition 65 - Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **GHS label elements** *Void*

(Contd. on page 8)

Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 03/11/2015

Reviewed On: 03/11/2015

Product Name: Trypticase Soy Broth w/20% Glycerol

(Contd. of page 7)

- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.

- **Date of preparation / last revision** 03/11/2015 / -
- **Abbreviations and acronyms:**
 - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 - IMDG: International Maritime Code for Dangerous Goods
 - DOT: US Department of Transportation
 - IATA: International Air Transport Association
 - ACGIH: American Conference of Governmental Industrial Hygienists
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - NFPA: National Fire Protection Association (USA)
 - HMIS: Hazardous Materials Identification System (USA)

US



Product Name:	Triple Sugar Iron (TSI) Agar
Catalog Number:	L50

Dear Customer:

This product does not require a Safety Data Sheet under the Occupational Health and Safety Administration standard entitled "Hazardous Communication" 29 CFR 1910.1200 for the United States.

Additionally, the product does not meet the criteria for W.H.M.I.S. classification as a controlled product. As a result, a W.H.M.I.S. Safety Data Sheet is not required (in Canada) for this product.

If you have any questions, please contact us at (800) 266-2222 option 2 or via email at TechService@HardyDiagnostics.com

Sincerely,

Quality Assurance Department
Hardy Diagnostics

Dear Customer:

This product does not require a Safety Data Sheet under the Occupational Health and Safety Administration standard entitled "Hazardous Communication" 29 CFR 1910.1200 for the United States.

Additionally, the product does not meet the criteria for W.H.M.I.S. classification as a controlled product. As a result, a W.H.M.I.S. Safety Data Sheet is not required (in Canada) for this product.

If you have any questions, please contact us at (800) 266-2222 option 2 or via email at TechService@HardyDiagnostics.com

Sincerely,

Quality Assurance Department
Hardy Diagnostics

021015sw

Hardy Diagnostics ~ 1430 West McCoy Lane ~ Santa Maria, CA 93455 ~ USA ~ (805)346-2766
Sales@HardyDiagnostics.com ~ www.HardyDiagnostics.com

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HDRA 4277A Rev. 093014vr

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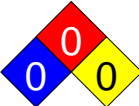
Date Prepared: 03/27/2015

Reviewed On: 07/25/2014

1 Identification

- **Product Identifier**
- **Product Name:** TSI Agar Slants
- **Catalog Number:** 221039
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** *In-vitro Diagnostics*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
BD Diagnostic Systems
7 Loveton Circle
Sparks, MD 21152
Telephone: (410) 771 - 0100 or (800) 638 - 8663
Email Address: Technical_Services@bd.com
- **Information Department:** Technical Service
- **Emergency telephone number:**
In case of a chemical emergency, spill, fire, exposure, or accident, contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

2 Hazard(s) identification

- **Classification of the substance or mixture**
The product is not classified according to the Globally Harmonized System (GHS).
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
This product contains no hazardous constituents, or the concentration of all chemical constituents are below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29 CFR 1910.1200, the Canada's Workplace Hazardous Materials Information System (WHMIS) and the European Directive 67/548/EEC and 1999/45/EC.
- **Classification system:**
The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.
- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **NFPA ratings (scale 0-4)**
 Health = 0
Flammability = 0
Reactivity = 0
- **HMIS ratings (scale 0-4)**

HEALTH	0
FIRE	0
REACTIVITY	0

 Health = 0
Flammability = 0
Reactivity = 0

(Contd. on page 2)

Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 03/27/2015

Reviewed On: 07/25/2014

Product Name: TSI Agar Slants

(Contd. of page 1)

- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- **Chemical characterization: Mixture**
- **Description:** Mixture consisting of the following components.
- **Dangerous Components:** Void
- **Additional information** Risk phrases refer to section 15.

4 First-aid measures

- **Description of first aid measures**
- **General information** No special measures required.
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact**
Rinse opened eye for 15 minutes under running water. Then consult a doctor.
- **After swallowing** If symptoms persist consult doctor.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents**
CO₂, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Wipe up with damp sponge or mop.
- **Methods and material for containment and cleaning up:** No special measures required.

(Contd. on page 3)

Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 03/27/2015

Reviewed On: 07/25/2014

Product Name: TSI Agar Slants

(Contd. of page 2)

· **Reference to other sections** No dangerous substances are released.**7 Handling and storage**

- **Handling**
- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:**
No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** 2 - 8 °C
- **Information about storage in one common storage facility:**
Store away from oxidizing agents.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems:**
No further data; see Section 7.
- **Control parameters**
- **Components with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal Protective Equipment**
- **General protective and hygienic measures**
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:**
In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator.
- **Protection of hands:**



Chemical resistant gloves (i.e. nitrile, or equivalent).

- **Eye protection:** Safety glasses
- **Body protection:** Protective work clothing (lab coat).

US

(Contd. on page 4)

Date Prepared: 03/27/2015

Reviewed On: 07/25/2014

Product Name: TSI Agar Slants

(Contd. of page 3)

9 Physical and chemical properties**· Information on basic physical and chemical properties****· General Information****· Appearance:****Form:** Highly viscous

Liquid

Color: Beige**· Odor:** Characteristic**· Change in condition** Undetermined**· Melting point/Melting range:** Not determined**· Boiling point/Boiling range:** Not determined**· Flash point:** Not applicable**· Danger of explosion:** Product does not present an explosion hazard.**· Density:** Not determined**· Solubility in / Miscibility with****Water:** Soluble**· Other information** No further relevant information available.**10 Stability and reactivity****· Reactivity****· Chemical stability****· Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

· Possibility of hazardous reactions No dangerous reactions known**· Conditions to avoid** No further relevant information available.**· Incompatible materials:** No further relevant information available.**· Hazardous decomposition products:** No dangerous decomposition products known.**11 Toxicological information****· Information on toxicological effects****· Acute toxicity:****· Primary irritant effect:****· on the skin:** No irritating effect.**· on the eye:** No irritating effect.**· Sensitization:** No sensitizing effects known.**· Additional toxicological information:**

The product is not subject to OSHA classification according to internally approved calculation methods for preparations.

(Contd. on page 5)

US

Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 03/27/2015

Reviewed On: 07/25/2014

Product Name: TSI Agar Slants

(Contd. of page 4)

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories**· IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information**· Toxicity****· Aquatic toxicity:** No further relevant information available.**· Persistence and degradability** No further relevant information available.**· Behavior in environmental systems:****· Bioaccumulative potential** No further relevant information available.**· Mobility in soil** No further relevant information available.**· Ecotoxicological effects:****· Other information:**

The ecological effects have not been thoroughly investigated, but currently none have been identified.

· Results of PBT and vPvB assessment**· PBT:** Not applicable.**· vPvB:** Not applicable.**· Other adverse effects** No further relevant information available.**13 Disposal considerations****· Waste treatment methods****· Recommendation**

Smaller quantities can be disposed of with solid waste.

This product is not considered a RCRA hazardous waste.

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements.

· Uncleaned packagings:**· Recommendation:** Disposal must be made according to state and federal regulations.**· Recommended cleansing agent:** Water, if necessary with cleansing agents.

US

(Contd. on page 6)

Safety Data Sheet
 acc. to OSHA HCS

Date Prepared: 03/27/2015

Reviewed On: 07/25/2014

Product Name: TSI Agar Slants

(Contd. of page 5)

14 Transport information

· UN-Number	
· DOT, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name	
· DOT, ADR, ADN, IMDG, IATA	Void
· Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Void
· Packing group	
· DOT, ADR, IMDG, IATA	Void
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	If "void" appears in the Hazard Class section for the type of transportation, this indicates the product is not regulated for transportation.
· UN "Model Regulation":	-

15 Regulatory information

 · **Safety, health and environmental regulations/legislation specific for the substance or mixture**

 · **SARA Section 355 (extremely hazardous substances)**

None of the ingredients is listed.

 · **SARA Section 313 (specific toxic chemical listings)**

None of the ingredients is listed.

 · **TSCA (Toxic Substances Control Act)**

7732-18-5	water
9002-18-0	agar
9000-71-9	casein
73049-73-7	meat peptone
57-50-1	sucrose
7647-14-5	sodium chloride

(Contd. on page 7)

Safety Data Sheet
 acc. to OSHA HCS

Date Prepared: 03/27/2015

Reviewed On: 07/25/2014

Product Name: TSI Agar Slants

(Contd. of page 6)

50-99-7	dextrose
7772-98-7	sodium thiosulfate
143-74-8	phenol red

· California Proposition 65 - Chemicals known to cause cancer

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· California Proposition 65 - Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Carcinogenic categories
· TLV (Threshold Limit Value established by ACGIH)

57-50-1	sucrose	A4
---------	---------	----

· GHS label elements Void

· Hazard pictograms Void

· Signal word Void

· Hazard statements Void

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we can not guarantee that these are the only hazards that exist.

· Contact: Technical Service Representative

· Date of preparation / last revision 03/27/2015 / 1

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organisation

ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

(Contd. on page 8)



Safety Data Sheet
acc. to OSHA HCS

Date Prepared: 03/27/2015

Reviewed On: 07/25/2014

Product Name: TSI Agar Slants

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

(Contd. of page 7)

US

FLINN SCIENTIFIC, INC.

Safety Data Sheet (SDS)

SDS #: 844.00

Revision Date: January 16, 2014

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Vinegar

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

Signal Word N/A

Pictograms

SECTION 2 — HAZARDS IDENTIFICATION

This chemical is considered nonhazardous according to GHS classifications for the Hazard Communication Standard. Treat all laboratory chemicals with caution.

Although this material is considered to be nonhazardous, unpredictable reactions among chemicals are always possible. Prudent laboratory practices should be observed.

Product should be treated as a chemical and is not for consumption as it has been stored with other nonfood-grade chemicals.

SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Acetic acid	64-19-7	CH ₃ COOH	60.05	4-8%
Water	7732-18-5	H ₂ O	18.00	92-96%

SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310). **If inhaled:** Remove victim to fresh air and keep at rest in a position comfortable for breathing (P304+P340). **If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If on skin (or hair):** Immediately remove all contaminated clothing. Rinse skin with water (P303+P361+P353). Wash contaminated clothing before reuse (P363). **If swallowed:** Rinse mouth. Do NOT induce vomiting (P301+P330+P331).

SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solution.

In case of fire: Use a tri-class dry chemical fire extinguisher.

NFPA CODE
None
established

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Ventilate area. Contain spill with sand or other inert absorbent material; deposit in sealed bag or container. See Sections 8 and 13 for further information.

SECTION 7 — HANDLING AND STORAGE

Flinn Suggested Chemical Storage Pattern: Organic #1. Store with acids, anhydrides and peracids.

SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

Wear protective gloves, protective clothing, and eye protection. Wash hands thoroughly after handling.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Clear or brown liquid. Strong smell of acetic acid.

Soluble: Water

pH: 2.4

Specific gravity: 1.01

Not for human consumption.

SECTION 10 — STABILITY AND REACTIVITY

Avoid contact with strong oxidizers.

Shelf life: Indefinite, if stored properly.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute effects: N.A.

ORL-RAT LD₅₀: N.A.

Chronic effects: Prolonged inhalation of vapors can cause irritation to respiratory tract.

IHL-RAT LC₅₀: N.A.

Target organs: Respiratory tract.

SKN-RBT LD₅₀: N.A.

N.A. = Not available, not all health aspects of this substance have been fully investigated.

SECTION 12 — ECOLOGICAL INFORMATION

Data not yet available.

SECTION 13 — DISPOSAL CONSIDERATIONS

Please review all federal, state and local regulations that may apply before proceeding.

Flinn Suggested Disposal Method #26b is one option.

SECTION 14 — TRANSPORT INFORMATION

Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

N/A = Not applicable

SECTION 15 — REGULATORY INFORMATION

Not listed.

SECTION 16 — OTHER INFORMATION

This Safety Data Sheet (SDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific, Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. The data should not be confused with local, state, federal or insurance mandates, regulations, or requirements and CONSTITUTE NO WARRANTY. Any use of this data and information must be determined by the science instructor to be in accordance with applicable local, state or federal laws and regulations. The conditions or methods of handling, storage, use and disposal of the product(s) described are beyond the control of Flinn Scientific, Inc. and may be beyond our knowledge. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THIS PRODUCT(S).

Consult your copy of the *Flinn Science Catalog/Reference Manual* for additional information about laboratory chemicals.

Revision Date: January 16, 2014

HAZARD COMMUNICATION PROGRAM

Southwestern Oregon Community College

TABLE OF CONTENTS

GENERAL INFORMATION	3
PURPOSE	3
IDENTIFYING HAZARDOUS CHEMICALS	3
IDENTIFYING CONTAINERS OF HAZARDOUS CHEMICALS	4
SECONDARY CONTAINER LABELING.....	5
SAFETY DATA SHEETS (SDS) (PREVIOUSLY KNOWN AS MATERIAL SAFETY DATA SHEETS).....	3
EMPLOYEE INFORMATION AND TRAINING.....	4
INFORMING EMPLOYEES WHO DO SPECIAL TASKS	4
HAZARDOUS CHEMICALS LIST.....	4
CHEMICALS IN PIPES	5
INFORMING CONTRACTORS	6
ACKNOWLEDGEMENT OF HAZARD COMMUNICATION TRAINING.....	7

[Appendices](#)

APPENDIX A SAFETY DATA SHEET LOCATIONS.....	8
APPENDIX B RULES HAZCOM DOES AND DOES NOT APPLY TO	9
APPENDIX C EXPLANATION OF PICTOGRAMS	10
APPENDIX D SAFETY DATA SHEETS	12
APPENDIX E CHEMICAL INVENTORIES.....	16

HAZARD COMMUNICATION PROGRAM

GENERAL INFORMATION

Southwestern Oregon Community College is committed to preventing accidents and ensuring the safety and health of our employees. We will comply with all applicable federal and state health and safety rules and provide a safe, healthful environment for all our employees. This written hazard communication plan is available on the “MyLakerLink” Administrative Services Safety portal at [Hazard Communication Program](#). It is also available in the front of all Safety Data Sheet (SDS) books (see SDS locations Appendix A) and can be found in [Safe Colleges](#), Southwestern’s online safety training system.

PURPOSE

The purpose of Hazard Communication or Right-to-Know as it is sometimes called, is very simple: Employees have both a need and a right to know the hazards and identities of the chemicals to which they are exposed and the necessary protective measures to prevent injury or illness.

Availability of hazard information benefits both employers and employees. Employers are required to provide a safe and healthful workplace for employees, and will be able to do a better job when they have information about the potential hazards. Employees will be better able to take steps to protect themselves when they know what the hazards are and how to avoid exposure. The result will be a reduction in chemically-related occupational illnesses and injuries.

A chemical is defined as any element, chemical compound or mixture of elements and/or compounds. Chemical hazards arise from inhaling chemical agents in the form of vapors, gases, dusts, fumes, and mists or by skin contact with these materials. The degree of risk of handling a given substance depends on the magnitude and duration of exposure.

IDENTIFYING HAZARDOUS CHEMICALS

A list is attached (Appendix E) to this plan that identifies all hazardous chemicals with a potential for employee exposure at this workplace. Detailed information about the physical, health, and other hazards of each chemical is included in a Safety Data Sheet (SDS) and the product identifier for each chemical on the list matches and can be easily cross-referenced with the product identifier on its label and on its Safety Data Sheet.

SAFETY DATA SHEETS (SDS) (PREVIOUSLY KNOWN AS MATERIAL SAFETY DATA SHEETS)

A Safety Data Sheet (SDS) is a detailed information bulletin prepared by the manufacturer or importer of a chemical that describes the physical and chemical properties, physical and health hazards, routes of exposure, precautions for safe handling and use, emergency and first-aid procedures, and control measures. Information on a SDS aids in the selection of safe products and helps prepare employers and employees to respond effectively to daily exposure situations as well as to emergency situations.

Copies of SDSs for all hazardous chemicals to which employees of Southwestern may be exposed are found in the locations listed in Appendix A. Safety Data Sheets are updated and managed by Administrative Services in cooperation with the Director of Facilities, Executive Director of OCCI, Executive Chef of Dining Services, Welding Faculty, Science Faculty, Housing Director, Nursing Simulation Equipment Lab Assistant and Art Faculty. The Dean of Curry Campus will manage Safety Data Sheets at the Brookings and Gold Beach Campuses. If a Safety Data Sheet is not immediately available for a hazardous chemical, employees can obtain the required information by calling one of the below staff:

Administrative Services: 541-888-7206
Facilities Director: 541-888-7229
Dean of Curry Campus: 541-813-1672
Assistant Director Curry: 541-813-1671

EMPLOYEE INFORMATION AND TRAINING

Prior to starting work, each new employee of Southwestern whose job requires them to work with chemicals will receive information and training on the following:

- An overview of the requirements in Oregon OSHA's hazard communication rules.
- Hazardous chemicals present in their workplace.
- Any operations in their work area where hazardous chemicals are used.
- The location of the written hazard communication plan and where it may be reviewed.
- How to understand and use the information on labels and in Safety Data Sheets.
- Physical and health hazards of the chemicals in their work areas.
- Methods used to detect the presence or release of hazardous chemicals in the work area.
- Steps the College has taken to reduce or prevent exposure to these chemicals such as ventilation, presence of another employee for specific procedures, respirators, emergency procedures, etc.
- Methods used to detect the presence or release of hazardous chemicals in the work area.
- How employees can protect themselves from exposure to these hazardous chemicals through use of engineering controls/work practices and Personal Protective Equipment (PPE).
- An explanation of any special labeling present in the workplace.
- Emergency procedures to follow if an employee is exposed to these chemicals.

Administrative Services, in cooperation with managers, is responsible to ensure that employees receive this training. After receiving training, each employee will sign the Acknowledgement of Hazard Communication Training page in this document and send it to Administrative Services to verify they received the training and understood the policies on hazard communication.

Prior to a new hazardous chemical being introduced into any area of this workplace, employees using the chemical will be given information as outlined above by their supervisor/manager.

INFORMING EMPLOYEES WHO DO SPECIAL TASKS

Before employees perform special non-routine tasks that may expose them to hazardous chemicals, their supervisor will review with them the chemical's hazards. Supervisors must inform employees how to control exposure and what to do in an emergency. The supervisor will evaluate the hazards of these tasks and provide appropriate controls including PPE and any additional training as required. Examples of special tasks that may expose employees to hazardous chemicals include the following:

Example of non-routine tasks performed by employees of Southwestern would be:

Task: Restriping curbs with yellow paint
Hazardous Chemical: Yellow Zone Marking Paint

HAZARDOUS CHEMICALS LIST

Appendix E is a list of all known hazardous chemicals used by Southwestern employees. Each SDS book on campus will have the appropriate index of chemicals that are in the area the SDS book is located. More information on each chemical noted is available by reviewing the corresponding Safety Data Sheet. Administrative Services is responsible for maintaining the chemical inventory list.

IDENTIFYING CONTAINERS OF HAZARDOUS CHEMICALS

All hazardous chemical containers used at Southwestern will be marked with one of the following:

- The original manufacturer's label that includes a product identifier; an appropriate signal word; hazard statements; pictograms; precautionary statements; and the name, address, and telephone number of the chemical manufacturer, importer, or other responsible party.
- Another label with the appropriate label elements just described.
- Workplace labeling that includes the product identifier and words, pictures, symbols, or a combination that provides at least general information regarding the hazards of the chemicals.

Below is a list of staff who will ensure that all containers in their areas of responsibility are appropriately labeled.

Facilities	Facilities Director
Student Housing	Executive Director of Student Housing
Chemistry/Biology Lab	Science Faculty
OCCI	Executive Director of OCCI
Dining Services	Executive Chef of Dining Services
Art Studio	Art Faculty
Nursing	Simulation Equipment Lab Assistant
Welding	Welding Faculty
Brookings	Dean of Curry Campus
Gold Beach	Dean of Curry Campus

No container will be released for use until this information is verified. Workplace labels must be legible and in English. Information in other languages is available by contacting Administrative Services at 541-888-7206.

It is the responsibility of each supervisor or staff in the areas above to obtain a new Safety Data Sheet whenever a new chemical is ordered. When new chemicals are received, the supervisor or staff will send Administrative Services a copy of the new Safety Data Sheet (SDS) indicating what department is using it. Administrative Services will then add the new SDS to the appropriate department's index to be placed at the front of the SDS Book by the supervisor/staff. The supervisor/staff should file the new SDS in alphabetical order with the other SDS. When new chemicals are introduced, the supervisor will do the following:

- Provide employees with information on the physical and health effects of the hazardous chemical by reviewing the SDS with them.
- Ensure that all secondary containers are labeled with product identifier and words, pictures, symbols, or a combination that provides general information regarding the hazards of the chemical.

SECONDARY CONTAINER LABELING

All secondary containers of hazardous chemicals used at Southwestern will be, at minimum, labeled with:

- Product identifier and words, pictures or symbols or a combination that provides at least general information about the hazards of the chemicals.



If the manufacturer/distributor of the chemical provides labels for secondary containers, staff shall use them on secondary containers.

The staff listed above in *Identifying Containers of Hazardous Chemicals* are responsible to verify that all containers of hazardous materials received for their area of use are labeled, tagged or marked with the correct information.

CHEMICALS IN PIPES

Some work activities are performed by employees in areas where chemicals are transferred through pipes. Southwestern follows the labeling requirements in OAR 437-002-0378 concerning the labeling of pipes. Before working in areas where hazardous chemicals are transferred through unlabeled pipes or where pipes are insulated with asbestos-containing material, employees will contact the Facilities Director for the following information:

- Identity of chemicals in the pipes.
- Physical or health hazards presented by the chemicals.
- Safe work practices necessary to prevent exposure.

INFORMING CONTRACTORS

It is the responsibility of the below staff to provide contractors (with employees) the following information:

Facilities	Facilities Director
Student Housing	Executive Director of Student Housing
Brookings	Dean of Curry Campus
Gold Beach	Dean of Curry Campus
Dining Services	Executive Chef of Dining Services
OCCI	Executive Director of OCCI

- The identity of the chemicals, how to review Southwestern Safety Data Sheets, and an explanation of the container and pipe labeling system.
- Safe work practices to prevent exposure.

It is the responsibility of the Facilities Director to identify and obtain SDSs for chemicals the contractor is bringing into the workplace.



Southwestern Oregon Community College

I have been informed about the hazardous chemicals that I may be exposed to during my work and I have received training on the following topics:

- An overview of the requirements in Oregon OSHA's hazard communication rules.
- Hazardous chemicals present in the workplace.
- The written hazard-communication plan.
- Physical and health effects of the hazardous chemicals.
- Methods to determine the presence or release of hazardous chemicals in the work area.
- How to reduce or prevent exposure to these hazardous chemicals through use of exposure controls/work practices and personal protective equipment.
- Steps we have taken to reduce or prevent exposure to these chemicals.
- Emergency procedures to follow if exposed to these chemicals.
- How to read labels and review safety data sheets.

Note to employee: This form becomes part of your personnel file; read and understand it before signing.

Employee: _____ Date: _____

Trainer: _____ Date: _____

PLEASE NOTE, BEFORE YOU USE A CHEMICAL, YOU MUST KNOW WHERE TO LOCATE THE SDS FOR IT, HOW TO READ THE SDS, AND ANY PERSONAL PROTECTIVE EQUIPMENT REQUIRED TO HANDLE THE CHEMICAL SAFELY. YOU SHOULD ALSO BE FAMILIAR WITH CONTROL MEASURES AND FIRST AID MEASURES IN CASE OF ACCIDENTAL EXPOSURE.

Please Return this Form to Administrative Services

APPENDIX A SAFETY DATA SHEET LOCATIONS

SDS Books are found at the following locations on campus:

Brookings Campus

- Science Lab (Room 112-only lab chemicals used)
- Staff 107 (master List of all chemicals in the building)
- 107a (toners, office supplies, etc.)
- Commercial Kitchen (kitchen cleaning chemicals)
- 140 Maintenance Office (maintenance, cleaning and other supplies)
- Nursing (Room 210a)

Coaledo Hall – Chemistry Lab #2 on west wall (specialty unit for Chem. Lab chemicals only)

Dellwood Hall – First Stop lobby

Eden Hall - Art Lab Sculpture area in Eden 5 on south wall (specialty unit for Art Lab chemicals only)

Empire Hall/PAC – Outside the Blackbox Theatre near first aid/disaster recovery plan/fire extinguisher station

Fairview Hall - Machine Tools Shop – outside Machine Shop Classroom (specialty unit for Machine Lab chemicals only)

Family Center/Childcare – Outside Office 108 in hallway at first aid/disaster recovery plan/fire extinguisher station

Fire Science Building – in garage on south wall

Green House (specialty unit for Greenhouse chemicals only)

Lampa Hall – outside of men's/women's bathrooms on west wall near first aid/disaster recovery plan/fire extinguisher station

Maintenance Building – south wall in carpenter's shop.

Newmark Center – On first floor in lobby inside north entrance near fire extinguisher

OCCI (specialty unit for OCCI chemicals only) –

- 1 in Baking Kitchen 128 in northwest corner
- 1 in Prep Kitchen 136 in southwest corner
- 1 in À la Carte Kitchen 121 in southwest corner

Print Shop – In Mail Room on west wall (specialty unit for Print Shop chemicals only)

Recreation Center – Next to front desk/near climbing wall in lobby area

Randolph Hall - Outside women's restroom in hallway

Sitkum Hall – Outside men's/women's bathrooms in hallway near east entrance with first aid/fire extinguisher station.

Stensland Hall – In lobby area on south wall outside of bathrooms/next to door to Student Support Services

Sumner Hall – In Sumner 2 (specialty unit for Nursing chemicals only)

Sunset Hall – Office #7

Tioga Hall – First- floor – On west wall outside of T105 near first aid/disaster recovery plan/fire extinguisher station All other floors the SDS are in the custodial closets which are not locked.

The SDS books are arranged in alphabetical order by the chemical's trade name or product name. SDSs will be available to all employees in their work area for review during each work shift. If SDSs are not available or new chemicals in use do not have a SDS, immediately contact Administrative Services at 541-888-7206. For more information on how to read a SDS, see Appendix D Safety Data Sheets.

APPENDIX B RULES HAZCOM DOES AND DOES NOT APPLY TO

RULES APPLY TO...

Any chemical that employees may be exposed to under normal conditions of use in the workplace or in a foreseeable emergency. "Foreseeable emergency" means any potential occurrence such as equipment failure, rupture of containers, or failure of control equipment.

RULES DO NOT APPLY TO...

Hazardous waste as defined by Solid Waste Disposal Act and subject to EPA.

Hazardous substances as defined by the Comprehensive Environmental Response, Compensation, and Liability Act and subject to EPA.

Tobacco or tobacco products.

Wood or wood products, including lumber which will not be processed, where only flammable or combustible hazards exist. Wood or wood products which have been treated with a hazardous chemical covered by the standard, and wood which may be subsequently sawed or cut, generating dust, are not exempted.

Articles - a manufactured item other than a fluid or particle that does not release more than minute or trace amounts of hazardous chemicals and does not pose physical or health hazard.

Food or alcoholic beverages sold, used, or prepared in a retail establishment. Foods intended for personal consumption.

Drugs as defined by the Federal Food, Drug, and Cosmetic Act, in solid, final form for direct administration to a patient.

Drugs packaged by manufacturers for sale in retail establishments (e.g., over-the-counter drugs).

Drugs intended for personal consumption (e.g., first aid supplies).

Cosmetics packaged for sale in retail establishments or intended for personal consumption.

Consumer products or hazardous substances defined by Consumer Product Safety Act and Federal Hazardous Substances Act used in same manner and ranges of exposure (frequency and duration) as that experienced by consumers.

Nuisance particulates that do not pose physical or health hazards.

Ionizing and nonionizing radiation

Biological hazards

HEALTH HAZARD



- **Carcinogens** – A chemical substance or mixture that can cause cancer.
- **Respiratory Sensitizer** – A chemical that if inhaled may lead to an allergic-type reaction of the lungs (respiratory system) if inhaled again.
- **Reproductive Toxicity** – Harmful effects to sexual function and fertility in adult males and females, or on development of the offspring.
- **Target Organ Toxicity (Single exposure)** – The significant health effects that can impair the function of a specific target organ (for example, the eyes or the kidneys) caused by a single exposure to a chemical. Toxic effects may be reversible or irreversible, immediate or delayed.
- **Target Organ Toxicity (Repeated exposure)** – The significant health effects that can impair function of a specific target organ (for example, the eyes or the kidneys) caused by repeated exposure to a substance or mixture. Toxic effects may be reversible or irreversible, immediate or delayed.
- **Mutagenicity** – Chemical exposure causing permanent changes in the amount or structure of the genetic material in a cell.
- **Aspiration Toxicity** – The harmful effect of a liquid or solid chemical when it enters the oral or nasal cavity directly by being breathed in or indirectly entering the respiratory system as a result of vomiting.

FLAME



- **Flammable Gases** – A gas that forms a flammable mixture with air at ambient temperature and pressure.
- **Flammable Aerosols** – A chemical in a non-refillable container with a gas compressed, liquefied or dissolved under pressure and fitted with a release device allowing the contents to be ejected as particles in suspension in a gas, or in another form; and meeting flammability test criteria.
- **Self Reactives** – Thermally unstable liquid or solid chemicals likely to undergo decomposition – even without interaction with air. These chemicals that are likely to undergo a stronger exothermic decomposition are classified under explosives.
- **Pyrophoric Liquids** – A liquid chemical that, even in small quantities, is likely to ignite within five minutes after coming into contact with air.
- **Pyrophoric Solids** – A solid chemical that even in small quantities is likely to ignite within five minutes after coming into contact with air.
- **Self-Heating** – A solid or liquid chemical (other than a pyrophoric liquid or solid) that, without energy supply, is likely to react with air and generate heat. Differs from a pyrophoric liquid or solid because it will ignite only when in large amounts and after long periods of time (hours or days).
- **Emits Flammable Gas** – Solid or liquid chemicals that, when in contact with water, emit flammable gases or that, by interaction with water, are likely to ignite spontaneously or to give off flammable gases in dangerous quantities.
- **Organic Peroxides** – A carbon-containing compound having two oxygen atoms joined together (-O-O-) called a “peroxy” group. Organic peroxides can be severe if and explosion hazards.

EXCLAMATION MARK



- **Irritant (Skin or Eyes)** – Reversible damage to the skin or eyes following exposure to a chemical substance.
- **Dermal Sensitizer** – An allergic-type reaction of skin tissue after repeated exposure to a chemical substance.
- **Acute Toxicity (Harmful)** – Harmful, health effects that occur soon after a single oral or dermal exposure to a chemical substance; or multiple doses given within 24 hours; or an inhalation exposure of four hours.
- **Narcotic Effects** – Depression of the central nervous system, exhibited as sleepiness, reduced alertness, loss of reflexes, lack of coordination, and dizziness caused by chemical exposure. Can also be shown as severe headache or nausea and can lead to irritability, fatigue, and worsen memory, perception, and reaction time.
- **Respiratory Tract Irritants** – Chemical exposure effects, characterized by localized by redness, swelling, and fluid build-up that weakens respiratory function with symptoms such as cough, pain, choking, and difficulty breathing.

GAS CYLINDER



- **Gas Under Pressure** – Gases in a container at a pressure of 29 psi (gauge) or more, are liquefied or are liquefied and refrigerated.

CORROSION



- **Corrosive (destructive) to skin or eyes** – Irreversible damage to the skin or eyes, including visible, localized death (necrosis) of skin tissue, burns, or serious eye damage following exposure to a chemical substance.
- **Corrosives** – A chemical that will by chemical action materially damage or destroy metals.

EXPLODING BOMB



- **Explosives** – A solid or liquid chemical that is capable by chemical reaction of producing gas at such a temperature and pressure and at such a speed as to cause damage to the surroundings. Pyrotechnic chemicals are included even when they do not evolve gases.
- **Self Reactives** – Thermally unstable liquid or solid chemicals likely to undergo a strongly exothermic decomposition even without participation of oxygen (air). This definition excludes chemicals classified under this section as explosives, organic peroxides, oxidizing liquids, or oxidizing solids.
- **Organic Peroxides** – Any organic (carbon-containing) compound having two oxygen atoms joined together (-O-O-) called a “peroxy” group, where one or both of the hydrogen atoms have been replaced by organic radicals (with an unpaired electron). Organic peroxides are thermally unstable chemicals, which may undergo exothermic self-accelerating decomposition. In addition, they are likely to have one or more of the following properties:
 - **Likely to explode**
 - **Burn intensely**
 - **Be sensitive to impact or friction**
 - **React dangerously with other substances**

FLAME OVER CIRCLE



- **Oxidizer** – A substance that readily yields oxygen to cause or intensify the combustion of organic material. Includes gases, liquids, and solids.

SKULL AND CROSSBONES



- **Acute Toxicity (Severe or Fatal)** – Severe, harmful health effects (that may include death) occurring soon after a single oral, dermal, or inhalation exposure to a chemical substance, or multiple exposures within a 24-hour period.

APPENDIX D SAFETY DATA SHEETS

SDS books are found in each building on campus listed in Appendix A. Administrative Services has electronic copies of all SDS for campus.

What information is required on an SDS? SDS must be written in English and contain the below information. The most important information when working with chemicals are section 1, 4, 8 and 11, which are highlighted.

Section 1, Identification includes product identifier; manufacturer or distributor name, address, phone number; emergency phone number; recommended use; restrictions on use.

Section 2, Hazard(s) identification includes all hazards regarding the chemical; required label elements.

Section 3, Composition/information on ingredients includes information on chemical ingredients; trade secret claims.

Section 4, First-aid measures includes important symptoms/ effects, acute, delayed; required treatment.

Section 5, Fire-fighting measures lists suitable extinguishing techniques, equipment; chemical hazards from fire.

Section 6, Accidental release measures lists emergency procedures; protective equipment; proper methods of containment and cleanup.

Section 7, Handling and storage lists precautions for safe handling and storage, including incompatibilities.

Section 8, Exposure controls/personal protection lists OSHA's Permissible Exposure Limits (PELs); ACGIH Threshold Limit Values (TLVs); and any other exposure limit used or recommended by the chemical manufacturer, importer, or employer preparing the SDS where available as well as appropriate engineering controls; personal protective equipment (PPE).

Section 9, Physical and chemical properties lists the chemical's characteristics.

Section 10, Stability and reactivity lists chemical stability and possibility of hazardous reactions.

Section 11, Toxicological information includes routes of exposure; related symptoms, acute and chronic effects; numerical measures of toxicity.

Section 12, Ecological information*

Section 13, Disposal considerations*

Section 14, Transport information*

Section 15, Regulatory information*

Section 16, Other information, includes the date of preparation or last revision.

*Note: Since other Agencies regulate this information, OSHA will not be enforcing Sections 12 through 15(29 CFR 1910.1200(g)(2)).

Below is a sample SDS:

SAFETY DATA SHEET

1. IDENTIFICATION

PRODUCT NAME: QUICKLINE T-A-P ORANGE

RECOMMENDED USE: NEUTRAL CITRUS DEGREASER

RESTRICTIONS ON USE: DO NOT USE IN A MANNER INCONSISTENT WITH THE LABEL.

LABEL BRAND: U S CHEMICAL

SDS 3216131 C O D E 3 1 8 3 7 0 3

U S CHEMICAL 316 HART STREET WATERTOWN,WI 53094 USA

MEDICAL EMERGENCY: 1-866-923-4913 USA

SPILL EMERGENCY: 1-800-424-9300 USA

PRODUCT INFORMATION: 1-800-558-9566 USA (8 A.M. TO 5 P.M. CST MONDAY TO FRIDAY)

INTERNET ADDRESS: WWW.USCHEMICAL.COM

2. HAZARD(S) IDENTIFICATION

CLASSIFICATION: EYE IRRITATION (CATEGORY 2B)

SKIN SENSITIZATION (CATEGORY 1)

LABEL ELEMENTS

SIGNAL WORD: WARNING

PICTOGRAMS: EXCLAMATION MARK

HAZARD STATEMENTS: CAUSES EYE IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION.

PRECAUTIONARY STATEMENTS: Wear chemical-resistant protective gloves. Avoid contact with eyes, skin, and clothing. Avoid breathing vapors or mists. Wash hands and affected areas thoroughly after handling. Contaminated work clothing must not be allowed out of the work place.

FIRST AID: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical attention. **IF ON SKIN:** Wash with plenty of water for at least 15 minutes. If skin irritation or rash occurs, get medical attention. Wash contaminated clothing before reuse. **IF SWALLOWED:** Rinse mouth. If conscious, dilute by drinking up to a cupful of milk or water as tolerated.

EMERGENCY TELEPHONE: 1-866-923-4913

Storage: Keep container tightly closed.

Disposal: Dispose of contents in accordance with all federal, state and local applicable laws and regulations.

KEEP OUT OF REACH OF CHILDREN. FOR COMMERCIAL AND INDUSTRIAL USE ONLY.

HAZARDS NOT OTHERWISE CLASSIFIED: Not applicable.

3. COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENT(S) CAS # WEIGHT %

ALCOHOL ETHOXYLATE

DIETHYLENE GLYCOL ETHYL ETHER

68439-46-3

111-90-0

1.7

1.1

D-LIMONENE 5989-27-5 0.5

STATE RIGHT TO KNOW: SEE SECTION 15 FOR STATE RTK CHEMICAL NAMES IN MIXTURE.

QUICKLINE T-A-P ORANGE SDS 3216131

4. FIRST-AID MEASURES

IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING FOR AT LEAST 15 MINUTES.

IF EYE IRRITATION PERSISTS, GET MEDICAL ATTENTION.

IF ON SKIN: WASH WITH PLENTY OF WATER. IF SKIN IRRITATION OCCURS, GET MEDICAL ATTENTION. TAKE OFF CONTAMINATED CLOTHING AND WASH IT BEFORE REUSE.

IF SWALLOWED: RINSE MOUTH. IF CONSCIOUS, DILUTE BY DRINKING UP TO A CUPFUL OF MILK OR WATER AS TOLERATED.

IF INHALED: NO SPECIFIC FIRST AID MEASURES ARE REQUIRED.

EMERGENCY TELEPHONE: 1-866-923-4913

MOST IMPORTANT SYMPTOMS / EFFECTS: CAUSES EYE IRRITATION. MAY CAUSE AN ALLERGIC SKIN REACTION.

MEDICAL CONDITIONS AGGRAVATED: NONE KNOWN.

NOTE TO PHYSICIAN: CALL 1-866-923-4913 FOR EXPOSURE MANAGEMENT ASSISTANCE.

5. FIRE-FIGHTING MEASURES

CHEMICAL HAZARDS: EYE IRRITATION. ALLERGIC SKIN REACTION. NON-FLAMMABLE.

COMBUSTION PRODUCT HAZARDS: OXIDES OF CARBON AND OTHER FUMES.

METHODS: SELECT EXTINGUISHER AND METHODS BASED ON FIRE SIZE AND TYPE.

EQUIPMENT: WEAR SCBA AND FULL PROTECTIVE GEAR AS CONDITIONS WARRANT.

NFPA RATING: HEALTH-2/FLAMMABILITY-0/ INSTABILITY-0/SPECIAL HAZARD-N.AP.

SUITABLE EXTINGUISHERS: WATER, DRY CHEMICAL, CO2 OR FOAM SUITABLE FOR FIRE.

UNSUITABLE EXTINGUISHERS: NO RESTRICTIONS BASED ON CHEMICAL HAZARDS.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: EVACUATE UNPROTECTED PERSONNEL FROM AREA.

WEAR PERSONAL PROTECTION INCLUDING RUBBER BOOTS. SEE SECTION 8. VENTILATE AREA IF NEEDED. BE CAREFUL NOT TO SLIP. WASH THOROUGHLY AFTER CLEAN-UP.

ENVIRONMENTAL PRECAUTIONS: PREVENT SPILL FROM ENTERING DRAIN, STORM SEWER OR SURFACE WATERWAY. PREVENT WATER AND SOIL CONTAMINATION.

CLEAN-UP METHODS: SMALL SPILLS MAY BE WIPED UP AND RINSED WITH WATER.

FOR LARGER SPILLS, DIKE TO CONTAIN. PUMP TO LABELED CONTAINER OR ABSORB SPILLAGE AND SCOOP UP WITH INERT ABSORBENT MATERIAL. AFTER SPILL COLLECTION, RINSE AREA WITH WATER AND FOLLOW WITH NORMAL CLEAN-UP PROCEDURES.

7. HANDLING AND STORAGE

HANDLING: FOLLOW ALL LABEL DIRECTIONS. INSTRUCT PERSONNEL ABOUT PROPER USE, HAZARDS, PRECAUTIONS, AND FIRST AID MEASURES. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. TAKE OFF CONTAMINATED CLOTHING AND WASH IT BEFORE REUSE. DO NOT TASTE OR SWALLOW. PRODUCT RESIDUE MAY REMAIN ON OR IN EMPTY CONTAINERS. HANDLE CAREFULLY TO AVOID DAMAGING CONTAINER.

STORAGE: KEEP CONTAINER CLOSED WHEN NOT IN USE. STORAGE AT AMBIENT TEMPERATURES IN A DRY AREA OUT OF DIRECT SUNLIGHT. PROTECT FROM FREEZING. ROTATE STOCK REGULARLY. KEEP AWAY FROM FOOD AND DRINK. KEEP OUT OF REACH OF CHILDREN.

QUICKLINE T-A-P ORANGE SDS 3216131

Southwestern Oregon Community College

Hazard Communication Program

August 2018

13 | Page

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE LIMITS: ALCOHOL ETHOXYLATE = NONE

DIETHYLENE GLYCOL ETHYL ETHER = NONE

D-LIMONENE = NONE

ENGINEERING CONTROLS: NONE REQUIRED. GENERAL ROOM VENTILATION IS TYPICALLY ADEQUATE.

PERSONAL PROTECTION

EYES: NONE REQUIRED WITH NORMAL USE.

HANDS: CHEMICAL-RESISTANT PROTECTIVE GLOVES (RUBBER OR NEOPRENE).

RESPIRATORY: NONE REQUIRED.

FEET: NONE REQUIRED. RUBBER BOOTS RECOMMENDED DURING SPILL CLEAN-UP.

BODY: NONE REQUIRED.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: ORANGE LIQUID

ODOR: ORANGE

pH CONCENTRATE: 10.0

pH @ 2500 PPM SOLUTION: N.AV.

pH @ USE DILUTION: N.AV.

PHYSICAL STATE: LIQUID

RELATIVE DENSITY (WATER): 1.008

SOLUBILITY (WATER): COMPLETE

VAPOR PRESSURE: N.AV.

VAPOR DENSITY: N. AV.

VISCOSITY: NON-VISCOUS

AUTO-IGNITION TEMPERATURE: N.AV.

DECOMPOSITION TEMPERATURE: N.AV.

EXPLOSIVE LIMITS (LEL/UEL): NONE

EVAPORATION RATE: N.AV.

FLAMMABILITY (SOLID, GAS): N.AP.

FLASH POINT: NONE

INITIAL BOILING POINT/RANGE: N.AV.

MELTING POINT/FREEZING POINT: N.AV.

ODOR THRESHOLD: N.AV.

PARTITION COEFF. (N-OCTANOL/WATER): N.AV.

OTHER: N.AV.

10. STABILITY AND REACTIVITY

REACTIVITY: NO HAZARD.

CHEMICAL STABILITY: STABLE.

POSSIBILITY OF HAZARDOUS REACTIONS: NONE KNOWN. WILL NOT POLYMERIZE.

CONDITIONS TO AVOID: TEMPERATURES BELOW 35°F (1.6°C) OR ABOVE 120°F (49°C).

MATERIALS TO AVOID: DIRECT MIXING WITH OTHER CHEMICALS. MIX ONLY WITH WATER.

HAZARDOUS DECOMPOSITION PRODUCTS: NONE UNDER NORMAL CONDITIONS.

11. TOXICOLOGICAL INFORMATION

ROUTES OF EXPOSURE: EYES, SKIN, INGESTION, INHALATION.

INFORMATION ON ROUTES OF EXPOSURE: NO LC50/LD50 TEST DATA ON MIXTURE.

ACUTE EFFECTS /SYMPTOMS

EYES: CAUSES EYE IRRITATION. MAY CAUSE DISCOMFORT, REDNESS AND WATERING.

SKIN: MAY CAUSE AN ALLERGIC SKIN REACTION, DISCOMFORT, DRYING AND REDNESS.

INGESTION: MAY CAUSE IRRITATION, NAUSEA, VOMITING AND DIARRHEA.

INHALATION: NONE KNOWN.

CHRONIC / OTHER EFFECTS: NO REPORTABLE GERM CELL MUTAGENS, RESPIRATORY SENSITIZERS, REPRODUCTIVE TOXINS OR ASPIRATION HAZARDS.

SKIN SENSITIZERS: D-LIMONENE. MAY CAUSE AN ALLERGIC SKIN REACTION.

SPECIFIC TARGET ORGANS (SINGLE/REPEATED): NONE KNOWN.

NUMERICAL MEASURES OF TOXICITY: ATEmix (ORAL-RAT) = ABOVE 2000 MG / KG

CARCINOGENS: NO REPORTABLE ACGIH, IARC, NTP, OR OSHA CARCINOGENS.

QUICKLINE T-A-P ORANGE SDS 3216131

12. ECOLOGICAL INFORMATION

ECOTOXICITY / CHEMICAL FATE: NOT AVAILABLE.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: DISPOSE OF CONTENTS IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL APPLICABLE LAWS AND REGULATIONS. CONSULT STATE AND LOCAL AUTHORITIES FOR RESTRICTIONS ON DISPOSAL OF CHEMICAL WASTE. MANAGE CHEMICAL WASTES THROUGH AN APPROVED WASTE TREATMENT FACILITY. DO NOT REUSE EMPTY CONTAINER. RINSE EMPTY CONTAINER THOROUGHLY WITH WATER BEFORE DISCARDING CONTAINER IN ACCORDANCE WITH CURRENT LOCAL COMMUNITY CODES. PLEASE RECYCLE EMPTY CONTAINER WHENEVER POSSIBLE.

14. TRANSPORT INFORMATION

DOT / IMDG / IATA / TDG: NOT REGULATED

15. REGULATORY INFORMATION

EPA CERCLA RQ: NO

EPA REGISTERED: NO

OSHA HAZARDOUS: YES

PHOSPHORUS CONTENT: 0.00%

PROPOSITION 65: NO

SARA 311/312 HAZARDS: ACUTE

SARA 313 CHEMICALS: NO

STATE RIGHT TO KNOW: WATER/7732-18-5, ALCOHOL ETHOXYLATE/68439-46-3, DIETHYLENE GLYCOL ETHYL ETHER/111-90-0, D-LIMONENE/5989-27-5

TSCA INVENTORY STATUS: ALL COMPONENTS ARE LISTED ON THE INVENTORY.

VOC: 0.50% CALCULATION METHOD USED IS BASED ON CALIFORNIA ARB STANDARD.

16. OTHER INFORMATION

PREPARATION DATE: 9-9-14 **PREPARED BY:** RC **REVISED SECTION:** 16

ABBREVIATIONS: N.AV. = NOT AVAILABLE N.AP. = NOT APPLICABLE

NOTICE TO READER

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Art

Egyptian Paste	EPK
Cal-spar	Feldspar
Frit2106	Frit3110
Georgia Kaolin	Frit3134
Silica, Colloidal Primcoat	Frit3195
Silica, Fused, 20/50 mesh stucco	Frit3269
Silica, Fused, 200 mesh fused silica flour	Gerstley Borate
Silica, Fused, 50/100 mesh stucco	Grog
Silicon Bronze Ingot	Gum Arabic
Willamette White Clay	Ilmenite
Zirconium Spinel	Iron Chromate
Albany Clay Slip	Kentucky Ball Clay (OM 4)
Alumina Hydrate	Kenzan Porcelain Clay
Alumina Oxide	Kingman Feldspar
Antimony Oxide	Lithium Carbonate
Bentonite	Magesium Carbonate
Black Iron Oxide	Magnesium Oxide
Bone Ash	Manganese Carbonate
Borax	Manganese Dioxide
Boric Acid	Mica
Brush on 40	Microcrystalline Wax
Burnt Umber	Nepheline Syenite
Calcium Carbonate	Nickel Carbonate
China Clay	Nickel Oxide
Chrome Oxide	OM4 Ball Clay/Kentucky Ball Clay
CMC Gum	Paraffin Wax
Cobalt Carbonate	Potassium Dichromate
Cobalt Oxide	Potassium Sulfate
Copper Carbonate	PV Clay
Cornwall Stone	Red Art Fire Clay
Cryolite	Red Iron Oxide
Custer Feldspar	Rutile (Fine Grind)
Dolomite	
Superpax	
Talc	
Tin Oxide	
Titanium Dioxide	
Titanium Oxide	
Ultrox	
Vee Gum	
Vitrox,	
Volcanic Ash	
Whiting	
Wollastonite (Plastic Dry clay)	
Yellow Ochre (Yellow Iron Oxide)	
Zinc Oxide	
Zircopax	

Chemistry SDS

1,1,2-Trichlorotrifluoroethane
1,10-Phenanthroline
1,4-Butanediol
1,4-Dimethoxybenzene
1,5,-Dihydroxynaphthalene
1,5-Diphenylcarbazine
1,5-Diphenylcarbohydrazide
12-Hydroxyoctadecanoic acid
1-Amino-2-naphthol-4-sulfonic acid
1-Aminonaphthalene
1-Bromododecane
1-Chloroadamantane
1-Dodecene
1-Naphthol
1-Nitroso-2-naphthol
1-octadecene
1-Phenyl-2-thiourea
2,4 Dichlorophenoxyacetic acid
2,4,6-Tripyridyl-s-Triazine
2,6-Dichloroindophenol sodium salt hydrate
2-Aminoethanol
2-Aminopyridine
2-Aminothiazole
2-Hydroxyacetophenone
2-Mercaptoethanol
2-Naphthol
3,5-Dinitrosalicylic acid
3-Nitrophthalic acid
3-Nitrophthalic anhydride
3-Pentanone
4-(p-Nitrophenylozo) resorcinol
4-Chloroaniline
4-Methyl-2-pentanol
Acetamide
Acetanilide
Acetic acid, glacial
Acetic acid, sodium salt trihydrate
Acetylacetone
Acetophenone
Acetylcholine chloride
Acid phosphotungstic
Adipic acid
Agar, nutrient
Aluminum chloride
Aluminum metal shot
Aluminum nitrate
Aluminum potassium sulfate
Aluminum potassium sulfate reagent
Aluminum sulfate
Amido black 10B
Amino-2-naphthol-4-sulfonic acid
Ammonium acetate
Ammonium bifluoride
Ammonium carbonate
Ammonium chloride
Ammonium dichromate
Ammonium molybdate tetrahydrate
Ammonium molybdate(VI) tetrahydrate

Ammonium nitrate
Ammonium oxalate
Ammonium sulfate
Ammonium thiocyanate
Ampicillin lyophilized
Anisole
Anthracene
Anthranilic acid
Anthrone
Antimony
Arginine
Arginine-HCl
Atropine sulfate
Bacto-lactose
Barium chloride anhydrous
Barium hydroxide
Barium nitrate
Barium peroxide
Basic fuchsin
Benzamide
Benzil
Benzilic acid
Benzoic acid
Benzoin
Benzophenone
Benzyl alcohol
Benzyladenine-N-6-monohydrate
Bis (2-ethoxyethyl) ether
Bis (2-methoxyethyl) ether
Bismark brown Y
Bismuth nitrate
Boiling stones
Borax carmine
Boric acid
Brilliant cresyl blue
Bromocresol green
Bromocresol purple
Butyric acid
Cadmium chloride hemi(pentahydrate)
Caffeine
Calcium acetate hydrate
Calcium carbonate
Calcium chloride
Calcium hydroxide
Calcium hypochlorite
Calcium lactate
Calcium sulfate
Calcium sulfate dihydrate
Carbol xylol
Casein
Catechol
Cellulose
Charcoal wood powder
Charcoal-Activated
Chlorohexidine gluconate
Cholesterol
Chromium nitrate
Chromium oxide

Chemistry SDS (cont.)

Chromium potassium sulfate
Chromium trioxide
Citric acid anhydrous
Citronellol
Cobalt chloride
Congo red
Copper
Copper metal shot
Copper tartrate
Copper(II) chloride dihydrate
Copper(II) sulfate pentahydrate
Cumene
Cupric acetate
Cupric carbonate basic
Cupric chloride
Cupric nitrate
Cupric oxide
Cuprous chloride
Cuprous oxide
D-(-)-Fructose
D-(-)-Ribose
D-(+)-Xylose
Decanoic acid
Dextrin powder
Dextrose
D-Histidine
Dibutyl phthalate
Diethyl butylmalonate
Diethyl malonate
Dimethyl maleate
Dimethylglyoxime
Dipotassium ethylenediamine tetraacetate
Disodium (ethylenedinitrilo) tetraacetate
Dithiooxamide
Dithizone
D-Lactose monohydrate
DL-Alanine
DL-Phenylalanine
DL-Tyrosine
DL-Valine
Dodecyl alcohol
Drierite with Indicator
E. coli HB101 lyophilized
EDTA. iron(III) sodium salt
Eriochrome black T
Ethidium bromide
Ethylene glycol
Ethylenediaminetetraacetic acid
Ethylenediaminetetraacetic acid, iron(III) sodium salt hydrate
Ferric ammonium citrate
Ferric chloride
Ferric chloride anhydrous
Ferrous ammonium sulfate
Ferrous ammonium sulfate
Ferrous sulfate
Ferrous sulfide
Feulgan stain
Filter agent, celite 521
Fluoroscein
Fructose
Galactose
Galactose-d (+)
Gelatin
Gentian violet
Gibberillic acid
Glass beads
Glucose pentaacetate
Glutathione
Glycerin
Glycine
Glycine
Glyoxylic acid monohydrate
Hippuric acid
Hydrazine sulfate
Hydroxylamine hydrochloride
Indantrione-1,2,3 hydratinhydrin
Indole
Iodine
Iron fillings
Iron powder
Kinetin
Kovac's reagent
L-(+)- Tartaric acid
Lactic acid
Lactose
L-ascorbic acid
Lauric acid
Lauryl sulfate
LB Broth
Lead
Lead acetate
Lead chloride
Lead dioxide
Lead nitrate
Lead oxide red
Lead oxide yellow
Levulose (d-fructose)
Lithium aluminum hydride
Lithium nitrate
L-Proline
Magnesium
Magnesium chloride
Magnesium oxide
Magnesium sulfate
Magnesium sulfate anhydrous
Malachite green G
Maleic acid
Maleic anhydride
Maleic hydrazine
Malonic acid
Maltose monohydrate
Manganese dioxide
Manganous sulfate
Mannose
Merbromin
Mercuric chloride

Chemistry SDS (cont.)

Mercuric nitrate
Mercuric oxide red
Mercurochrome
Mercurous chloride
Mesh-Molecular Sieves
Methyl cellulose
Methyl green
Methyl orange
Methyl red
Methyl violet 2B
Methylene blue
Molecular sieve
Molybdenum trioxide
Monoacetin
Morin hydrate
Mucic acid
Murashige and skoog basal medium with sucrose and agar

N-(1-Naphthyl)ethylenediamine dihydrochloride
Naphthalene
Neutral red
Nickel chloride
Nickel(II) chloride hexahydrate
Nickelous ammonium sulfate
Nickelous sulfate
Nicotinic acid
Nigrosin
Ninhydrin
Nitromethane
Nitron
Nutrient broth
o-Benzoylbenzoic acid
o-Chlorobenzoic acid
Orcinol monohydrate
Oxalic acid
p-Acetophenetidide
Pancreatin
p-Dichlorobenzene
p-Dimethoxybenzene
Petrolatum
Petroleum Ether
Phenolphthalein
Phenyl isothiocyanate
Phenylacetic acid
Phloroglucinol dihydrate
Phloxine B
Phthalic acid
Phthalic anhydride
p-hydroxybenzoic acid
Piperonal
Plasmid (pGLO) lyophilized
p-Nitroaniline
P-Nitrobenzaldehyde
Poly(acrylamide-co-acrylic acid)
Polyvinyl alcohol
Potassium antimonyl tartrate hydrate
Potassium bicarbonate
Potassium biphthalate

Potassium bisulfate
Potassium bitartrate
Potassium bromide
Potassium carbonate
Potassium chlorate
Potassium chloride
Potassium chloridel
Potassium chromate
Potassium cyanate
Potassium cyanide
Potassium dichromate
Potassium ferrocyanide
Potassium hydrogen phthalate
Potassium hydroxide
Potassium iodate
Potassium oxalate
Potassium perchlorate
Potassium permanganate
Potassium persulfate
Potassium phosphate monobasic
Potassium sodium tartrate
Potassium sulfate
p-Phenylphenol
Propionic acid
Propylthiouracil
p-Toluenesulfonic acid
Pyridinium chlorochromate
Pyrogallic acid
Quinalizarin
Quinizarin
Resorcinol
Salicylic acid
Sedi-stain
Semicarbazide hydrochloride
Silica gel
Silica gel desiccant
Silica gel grade 13
SilicAR CC-7
SilicAR TLC-7GF
Silver chloride
Silver iodate
Silver nitrate
Silver sulfate
Soda and lime indicator
Sodium acetate trihydrate
Sodium benzoate
Sodium bicarbonate
Sodium bismuthate
Sodium bisulfite
Sodium borate
Sodium bromide
Sodium carbonate
Sodium chlorate
Sodium chloride
Sodium chlorite
Sodium chromate
Sodium citrate
Sodium cyanide
Sodium dichromate

Chemistry SDS (cont.)

Sodium dihydrogenphosphate monohydrate
Sodium diphenylaminesulfonate
Sodium fluoride
Sodium hydrogenphosphate heptahydrate
Sodium hydrogensulfate monohydrate
Sodium hydrogentartrate
Sodium hydrosulfite
Sodium hydroxide
Sodium hydroxide pellet
Sodium molybdate
Sodium nitrite
Sodium oxalate
Sodium phosphate
Sodium phosphate monobasic
Sodium silicate solution
Sodium sulfate
Sodium sulfate decahydrate
Sodium sulfite
Sodium tartrate
Sodium tetraborate
Sodium tetraborate decahydrate
Sodium thiosulfate
Sodium thiosulfate pentahydrate
Sodium tungstate
Stannous chloride
Starch
Starch soluble
Stearic acid
Steel
Strontium nitrate
Succinic acid
Sucrose
Sudan black B
Sudan III
Sudan IV
Sulfanilamide
Sulfanilic acid
Sulfosalicylic acid

Sulfur
Tannic acid
Tartaric acid
Taurine
TE Buffer
Tetraphenylboron sodium
Thiamine hydrochloride
Thiourea
Thymol
Thymolphthalein
Thyroxine sodium
Tin
trans-Cinnamin acid
Transformation Solution
Tricaine methanesulfonate
Trichloroacetic acid
Triethanolamine
Triethylene glycol
Triphenyl tetrazolium
Triphenylmethanol
Tris(hydroxymethyl)aminomethane
Trizma base
Turk solution
Tween 20
Uranyl nitrate
Urea
Vanillin
Vitamin C
Wintergreen oil
Wright's stain
Zinc
Zinc acetate
Zinc carbonate
Zinc chloride
Zinc nitrate hexahydrate
Zinc oxide
Zinc purified powder
Zinc sulfide
Zinc sulfide powder

Custodial MSDS/SDS

Ajax All Purpose Cleaner Liquid - Lemon
Alpha HP Multi-Surface Disinfectant Cleaner
Baseboard Cleaner & Wax Stripper
Big D Para Products
Breakdown Odor Eliminator Concentrate Fresh
Clario Foaming Skin Cleanser
Clorox Commercial Solutions Ultra Clorox Germicidal Bleach
Dial Hair and Body Shampoo
Dust Up Floor Dressing & Dust Mop Treatment
Electrasol Powerball 2-in-1 Tabs
enMotion Gentle Foam Soap with Moisturizers Fragrance-Free, Dye-Free
Enzyme Plus – Brighton Professional
Foaming Acid Restroom Cleaner
Gleme Glass Cleaner
Hot Springs Heavy-Duty General Purpose Cleaner Concentrate
J Works Tempest Solvent-Free Cleaner/Degreaser
Liquid Antibacterial Soap
Percolator Premium Spotter
ProKure
Pro Strip Pure Non Corrosive Stripper
Pro Strip SC High Efficiency Floor Stripper
Radiance Laundry Concentrate
Raindance SC Low Foam Neutral Floor Cleaner
Renuzit Super Odor Neutralizer
Snapback Spray Buff Conventional
Stride Fragrance Free SC Neutral Cleaner
Time Saver Floor Finish
Virex II 256
Water Base Stainless Steel Maintainer
Whiteboard Cleaner

Dining Services SDS

Bernzomatic Propane Cartridge (Propane)
Classic Germicidal Ultra Bleach
Clorox Germicidal Bleach
Dawn Professional Manual Pot and Pan Detergent
Floorbac Bioactive Floor Cleaner
Glass and Hard Surface (Non-Ammoniated Cleaner)
Hand-Kleen (han-gel, lotion soap)
Low Temp Rinse Aid
Mach Drymate
Mach Washmate
Mach Washmate NP
Machine Detergent 3X
RoomSense 200 Disinfectant Cleaner
Solution QA
Sterno Butane Fuel Cartridge
Sterno Solid 2 Hour Fuel
Sterno Solid 4 Hour Fuel
Super 8
Super Clean Degreaser
Tork Foodservice Cleaning Wet Wipes
Tork Foodservice Sanitizing Wet Wipes
Ultra D-Grease Supreme SDS
Ultra FC-46
Ultra Pot & Pan Supreme
WD-40
Windex Original Glass Cleaner
Xpress Stainless Steel Polish

Nursing SDS

Acetone

Alcohol Prep Pads Saturated W/70% Isopropyl Alcohol Mms

Ammonia Inhalants Mms

Artificial Blood

Blood, Concentrated, Synthetic (Gaumard) Gaumard

Blood, Concentrated, Synthetic (Laerdal) Laerdal

Bzk Antiseptic Towelettes Mms

Chloraprep 2.0% Mms

Chloraprep With Orange Tint Donation

Cleanser, Disinfectant Powder Cleanser (Comet, Western Family) Walmart

Clorox Healthcare Bleach Germicidal Wipes

Dawn Dishwashing Liquid Walmart

Dispatch Hospital Cleaner Disinfectant Towels W/Bleach Donation

Dynalube (Dyn1250) Mms

Elmer'S Glue-Al Walmart

Eyesaline Eyewash Honeywell

Gastrocult Developer Solution Orion

Germ-X Hand Sanitizer Walmart

Goof Off

Hemocult Developer Solution Orion

Hydrogen Peroxide Walmart

Isopropyl Alcohol - Rubbing Alcohol 70%

Isopropyl Alcohol - Rubbing Alcohol 91%

Liquid Paper Correction Fluid

Nail Polish Remover Non Acetone

Nail Polish Remover With Acetone (Cutex Regular) Walmart

Regular Clorox Bleach Walmart

Sensi-Care Skin Protectant

Super Glue Walmart

Surgilube Mms

OCCI SDS

Asidufoam Super Foaming Bathroom Cleaner
Betco - Push Drain Maintainer 133
Chem Kleen - Cleaner
Clorox Anywhere Hard Surface Sanitizing Spray
Clorox Germicidal Bleach
Comet Deodorizing Cleanser with Chlorinol
Foaming Antibacterial Hand Cleanser
GOK
GreenEarth Push Drain Maintainer Floor Cleaner and Spotter
Grill & Oven Cleaner-Claire
Low Temp Rinse Aid
Machine Detergent 3X
Murphy Oil Soap Spray
Oxiclean
Pot & Pan
Power Scrub- Aluminum Safe Cleaner
RoomSense 100 Air Freshener
RoomSense 200 Air Freshener
RoomSense 300 Air Freshener
Solution QA
Sparkle - Glass Cleaner
Ultra D-Grease Supreme SDS
Ultra FC-46
Xpress Stainless Steel Polish
Xpress White 'N Brite

Student Housing SDS

Alpha HP Multi Surface Cleaner
Claire Aerosol Chewing Gum Remover
Crew Bathroom Cleaner and Scale Remover
Crew Restroom Floor and Surface Non Acid Cleaner
Dermacare Premium Lotion Soap
Dial Complete Foaming Antibacterial Hand Soap
Glance HC Glass & Multi-Surface Cleaner
Jasco TSP
Kilzall High Yield
Lift Off 3
Mr. Muscle Oven and Grill Cleaner Aerosol
Murphy's Oil Soap
Ortho Weed B Gone Plus Crab Grass Control
Prominence Heavy Duty Floor Cleaner
Quick Line T-A-P Orange Neutral Citrus Cleaner
Quick Line TKO Oven and Grille Cleaner
Raindance
Sewer Cleaner
Suma Kitchen Degreaser
Virex II 256 Multi Surface Cleaner

Printer Toners and Developers on Campus

- 1 2515 SDS_Savin Toner Type 2518 BLK (Black toner)
- 2 2515 SDS_DEVELOPER TYPE 19 BLACK(B0399640) (Black developer)
- 3 SDS_DEVELOPER TYPE 28 BLACK B1219645(REI) (Black developer)
- 4 SDS_Toner Type 2120D_2522_5627 (Black toner)
- 5 SDS_DEVELOPER TYPE 24 BLACK(B0649645) (Black developer)
- 6 SDS_TONER TYPE 6110D_6075_6110D (Black toner)
- 7 SDS_Print Cartridge Black Type MP C3000_C3030_LD430c (Black toner)
- 8 SDS_Print Cartridge Yellow Type MP C3000_C3030_LD430c (Yellow toner)
- 9 SDS_Print Cartridge Magenta Type MP C3000_C3030_LD430c (Magenta toner)
- 10 SDS_Print Cartridge Cyan Type MP C3000_C3030_LD430c (Cyan toner)
- 11 SDS_DEVELOPER BLACK(D0239640) (Black developer)
- 12 SDS_DEVELOPER CYAN(D0239660) (Cyan developer)
- 13 SDS_DEVELOPER MAGENTA(D0239670) (Magenta developer)
- 14 SDS_DEVELOPER YELLOW(D0239680) (Yellow developer)
- 15 SDS_DEVELOPER BLACK(B2309640) (Black developer)
- 16 SDS_DEVELOPER CYAN(B2309660) (Cyan developer)
- 17 SDS_DEVELOPER MAGENTA(B2309670) (Magenta developer)
- 18 SDS_DEVELOPER YELLOW(B2309680) (Yellow developer)
- 19 SDS_Print Cartridge Black Type MP C3300_C3333_LD533C (Black toner)
- 20 SDS_Print Cartridge Magenta Type MP C3501_C9135_LD635C_ MP C3300_C3333_LD533C (Magenta toner)
- 21 SDS_Print Cartridge Cyan Type MP C3501_C9135_LD635C_ MP C3300_C3333_LD533C (Cyan toner)
- 22 SDS_Print Cartridge Yellow Type MP C3501_C9135_LD635C_ MP C3300_C3333_LD533C (Yellow toner)
- 23 SDS_DEVELOPER BLACK D1979640 (Black developer) xx54
- 24 SDS_RICOH_Savin_Lanier Print Cartridge MP 3554 (Black toner)
- 25 SDS_Toner MP 301 (Black toner)
- 26 SDS_DEVELOPER BLACK D1449640 (Black developer)
- 27 SDS_DEVELOPER CYAN D1449660 (Cyan developer)
- 28 SDS_DEVELOPER MAGENTA D1449670 (Magenta developer)
- 29 SDS_DEVELOPER YELLOW D1449680 (Yellow developer)
- 30 SDS_PRINT CARTRIDGE BLACK MP C3502 (Black toner)
- 31 SDS_PRINT CARTRIDGE MAGENTA MP C3502 (Magenta toner)
- 32 SDS_PRINT CARTRIDGE YELLOW MP C3502 (Yellow toner)
- 33 SDS_PRINT CARTRIDGE CYAN MP C3502 (Cyan toner)
- 34 SDS_RICOH_SAVIN_LANIER Print Cartridge Black MP C3503 (Black toner)
- 35 SDS_RICOH_SAVIN_LANIER Print Cartridge Yellow MP C3503 (Yellow toner)
- 36 SDS_RICOH_SAVIN_LANIER Print Cartridge Magenta MP C3503 (Magenta toner)
- 37 SDS_RICOH_SAVIN_LANIERr Print Cartridge Cyan MP C3503 (Cyan toner)
- 38 SDS_RICOH_SAVIN_LANIER Print Cartridge Black MP C6003 (Black toner)

- 39 SDS_RICOH_SAVIN_LANIER Print Cartridge Yellow MP C6003 (Yellow toner)
- 40 SDS_RICOH_SAVIN_LANIER Print Cartridge Magenta MP C6003 (Magenta toner)
- 41 SDS_RICOH_SAVIN_LANIER Print Cartridge Cyan MP C6003 (Cyan toner)
- 42 SDS_RICOH_SAVIN_LANIER Pro Print Cartridge Black C5100 (Black toner)
- 43 SDS_RICOH_SAVIN_LANIER Pro Print Cartridge Yellow C5100 (Yellow toner)
- 44 SDS_RICOH_SAVIN_LANIER Pro Print Cartridge Magenta C5100 (Magenta toner)
- 45 SDS_RICOH_SAVIN_LANIER Pro Print Cartridge Cyan C5100 (Cyan toner)
- 46 SDS_DEVELOPER BLACK D1369640 (Black developer)
- 47 SDS_DEVELOPER CYAN D1369660 (Cyan developer)
- 48 SDS_DEVELOPER MAGENTA D1369670 (Magenta developer)
- 49 SDS_DEVELOPER YELLOW D1369680 (Yellow developer)
- Ricoh Dellwood toner Fin aid - 2120D Black

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Dental Program SDS

- 2-Tone Disclosing Liquid
- 2-Tone Disclosing Tablets
- 3M ESPE 2380, 4930, 8692 and 8693 Series Sof-Lex Extra Thin MI Paste
- 3m™ ESPE™2380, 4930, 8692 And 8693 Series Sof-Lex™ Extra Thin Contouring And Polishing Discs
- Aquasil
- BluTab
- Brilliant EverGlow
- Chemfil Rok
- COE Soft Denture Reline Material
- Colgate Total Clean Mint
- Crest Pro-Health Rinse – Cool Wintergreen
- Enthus VPS Impression Material
- Enzyme Tablets
- Eugenol
- File-Eze
- Filtek Supreme Ultra
- Fuji 1 Powder and Liquid Cement
- Glutaraldehyde
- Handpiece Lubricant
- Hydraulic Oil
- iBOND Total Etch
- IRM Powder
- Isopropyl Alcohol
- Jeltrate Alginate Impression Material
- Jeltrate
- Jeltrate Chroma
- Kromatic Color Changing Alginate
- Lab Plaster Regular

- Labstone Buff
- Listerine Total Care Mouth Wash
- Luxatemp Ultra
- Mach Die Silicone
- MI Past Plus
- Nu Gauze
- One Coat 7 Universal
- ParaBond Adhesive B
- ParaBond Adhesive A
- Petroleum Jelly
- Red Utility Wax
- Sani-Cloth AF3 Germicidal Disposable Wipe
- Speed Clean Autoclave Cleaner
- Spray 2000 Plus X-Ray Processor Spray
- Temp Bond NE
- TPH Spectra
- TPH 3flow
- Tray Adhesive Spray
- Triad Custom Tray Material
- Ultra Bond Block Out
- Venus Diamond Flowable
- Virtuoso Universal Composite
- Vicostat
- X-Ray Fixer

HAZARDOUS WASTE DISPOSAL POLICY

GENERAL INFORMATION

Southwestern Oregon Community College recognizes the importance of protecting the environment as well as protecting the health and safety of faculty, staff, and students. It is the policy of Southwestern to reduce the use of toxic materials in College operations whenever reasonably possible and to reduce the amount of hazardous waste generated.

College Departments should work towards reducing both the use of toxic materials and the generation of hazardous chemicals in an environmentally sound manner. Disposal of hazardous materials should be considered only after sincere attempts have been made to recycle, recover, or otherwise reuse the material.

It is the responsibility of each employee to handle and dispose of hazardous material in a manner that is in accordance with the guidelines established by the College. These guidelines have been developed so that hazardous waste disposal at Southwestern will be in compliance with all state and federal regulations governing the handling and disposal of hazardous waste.

TABLE OF CONTENTS

General Guidelines	3
Waste Categories	3
Chemical Waste	
Biohazardous Waste	
Sharps Materials	
Radioactive Materials	
Instructions for Hazardous Waste Disposal	4
Packaging the Waste	
Labeling the Waste	
Completing the Chemical Collection Request	4
Hazardous Waste Disposal Guide	5
Office and Shop Waste	
Aerosol Cans	
Office Products	
Cleaning Products	
Rags	
Paint	
Waste Reduction	6
Waste Costs	
Purchasing	
Change Procedures	
Unknowns	
Recycling	
Segregate	
Storage	6
Disposal.....	7
Non-Hazardous Wastes, Treatment, Recycling	7
Chemical Recycling	8
Chemical Treatment	8
Chemical Waste Disposal.....	8
Packing.....	9
Pickup	9
Specific Wastes.....	9
Aerosol Cans	
Photographic Darkroom Chemicals	
Used Oil	
Organic Solvents	
Infectious Waste	
Definitions.....	10
Disposal.....	10
Storage	10
Glass Recycling	11
Emergencies	12
Reporting	12
First Aid	13

GENERAL GUIDELINES

The first step in dealing with any chemical spill is to assess the magnitude of spilled material and the associated level of hazard. No one should attempt to deal with a spill until properly equipped with adequate personal protective equipment and spill treatment materials. Risk assessment is successful only if personnel are familiar with the hazardous properties of the material they are handling and have developed methods to follow in the event of a spill.

Information of this type is available from Material Safety Data Sheets and from the College's Facilities Department. The Facilities Department has the responsibility to respond to chemical spills and to oversee cleanup activities. This Department also has the authority to ensure that appropriate cleanup steps are taken in accordance with applicable environmental regulations.

WASTE CATEGORIES

Hazardous waste can be broadly grouped into four categories: chemical, radioactive, biohazardous, and materials that are sharp. Each category has hazards that have an effect on safe handling and disposal practices, and a specific waste may have properties of more than one category.

CHEMICAL WASTE

Chemical wastes which are hazardous are disposed through a hazardous waste disposal program managed by the Facilities Department. The designation of "hazardous" refers to chemicals or materials that are corrosive, flammable, reactive (including explosive), or toxic. The regulatory definition of hazardous waste, in a broad interpretation, includes the majority of known chemicals when they are to be discarded.

The hazardous waste disposal program is managed in accordance with regulations of the Oregon Department of Environmental Quality (DEQ) and the U.S. Environmental Protection Agency. These regulations dictate specific methods for disposal of different types of hazardous chemical waste. Therefore, the College has specific guidelines that must be followed regarding packaging, labeling, and disposal of hazardous waste. Since generators of waste are charged for costs associated with waste disposal, guidelines have also been developed by the College for recycling and waste minimization techniques.

BIOHAZARDOUS WASTE

Biohazard or biological hazard means those infectious agents presenting a risk of death, injury or illness to individuals who handle them. Any waste materials that contain such agents must be autoclaved or chemically sterilized prior to disposal into the normal trash. A control, such as sterilizer indicator tape, must be employed to assure the effectiveness of treatment. Other hazards, such as toxicity or radioactivity, should not be ignored when disposing of sterilized materials. If sterilization is not practical, then biohazardous material must be incinerated in a DEQ permitted infectious waste incinerator. Contact the Facilities Department for information.

SHARP MATERIALS

Material that is sharp, including needles, broken glass, and razor blades, provides a danger both to initial users and to other persons who may subsequently handle it. In addition to causing physical damage, such material, when contaminated, can provide an entry route into the body for toxic or infectious substances.

Sharp material should be enclosed in a rigid container which the material cannot penetrate. The Facilities Department should be contacted for disposal. Materials meeting the regulatory definition of sharps include, but are not limited to needles, syringes with or without needles, lancets. Broken glass may be placed in garbage dumpsters after enclosure in rigid containers.

RADIOACTIVE MATERIALS

Radioactive materials are not handled at Southwestern at this time in a manner to create a disposable waste condition.

INSTRUCTIONS FOR HAZARDOUS WASTE DISPOSAL

Federal and state laws require proper disposal of chemical wastes. To make this process as easy as possible, The Facilities Department has established the Hazardous Waste Disposal program. For waste generators, this system requires three steps: packaging the waste correctly, filling out the Chemical Collection Request, and sending the request to Facilities.

PACKAGING WASTE

Package waste in a leak-proof container with a screw-top lid or other secure closure. Snap caps, such as those found on milk bottles, wrong size caps, parafilm, or other loose fitting lids are not acceptable.

Solid debris can be packaged into sealed plastic bags. Do not use biohazard bags for chemically hazardous waste.

Clean visible contamination from outside of the container.

LABELING WASTE

Obtain and complete a Chemical Collection Request Form from the Facilities Department.

COMPLETING THE CHEMICAL COLLECTION REQUEST FORM

Fill out the following information legibly:

Name: This is the person we contact if we have questions about the waste. He or she should be knowledgeable about the chemical characteristics of the waste and the processes used to generate the waste.

Date: State and federal law allows us to store waste on campus for no more than 90 days. If the container was used to accumulate waste, the date should give the last day waste was added.

Department: Departments identification is needed to aid in pollution prevention planning.

Phone number: List the number where the waste generator can be reached.

Building and Room: Please list the building and room where the waste will be located when we arrive to pick it up, not your office.

CHEMICAL CONTENTS AND PROPERTIES

Chemical Name and Common Name: Used as the basic identifiers for the waste product.

Constituents and Percentages: List all constituents in the container, including solvents and water, by full name, not by abbreviation, initials or chemical formula. Include their approximate proportions, which should add up to 100%. If the proportions are unknown, indicate that the container holds a mixture and identify the components as well as you can.

Properties, Number of Containers, Container Type: Follow the check-off and blank fill-in to complete these sections. They are very self-explanatory.

Quantity per Container: Indicate the amount of waste in the container, not the size of the container, using one of the following units of measure: liter (including ml, etc.), gallon, gram (including kg, etc.) pound. For example, two liters of waste in a four-liter container should be entered as two liters.

Total Quantity: Amount in all containers.

pH: Measure the pH. This is very important in classification of some wastes.

Major Hazards: Be sure to indicate all hazards. This information is available off of the original container label or the product MSDS.

Comments: Add any comments that you feel would be helpful in classification and handling of the material. Put in this section the information you would like to have added if you were the one charged with the disposal of the material.

ARRANGING FOR WASTE PICKUP

Send a copy of the completed request to the Facilities Department. Attach a copy of the request to the waste container. We will pickup the waste within a week of receiving the request.

Leave the marked containers in a visible place in the room noted on the request.

HAZARDOUS WASTE DISPOSAL GUIDE

OFFICE AND SHOP WASTE

Both office and shop settings typically utilize products that are found also in homes. Environmental regulations allow homeowners greater leeway in disposal of materials than in the workplace environment. What people are used to legally throwing away at home may not be legal to do at work.

AEROSOL CANS

All aerosol cans are considered hazardous waste until completely empty and punctured.

Campus departments may purchase devices to open aerosol cans and drain contents, except for cans with pesticides or other highly toxic materials. Cans will be picked up as with other hazardous wastes.

Departments that produce a lot of aerosol cans are encouraged to purchase their own opening device, in consultation with the Facilities Department.

OFFICE PRODUCTS

In the past, correction fluid (white out), duplicating fluid, glues, and various thinners for these products were extensively used in offices. With the advent of computers, the use of these solvent-based products has decreased. Containers that are not completely dry are typically hazardous waste when disposed. In addition, toner fluid (for copiers and printers) may be hazardous, depending on constituents. Inks used for stamp pads or certain pens are typically hazardous.

CLEANING PRODUCTS

Many cleaning products have a high or low enough pH to qualify as hazardous waste. Any cleaning product that smells of ammonia is likely to be above the pH allowed for sewer disposal under Coos Bays drain disposal regulations. This does not affect the use of these products as intended, but should be kept in mind when getting rid of old or outdated stock. In addition, many cleaning products contain solvents that may be classified as hazardous waste when disposed.

RAGS

Rags that are to be used for solvent-based purposes should be purchased, when possible, through a laundering service that includes laundering the rags. If this is not feasible, rags with flammable solvents or hazardous constituents should be collected in flammable rag containers and disposed as hazardous waste.

PAINT

Paint is typically hazardous before drying. The use of lead and mercury in paint has largely disappeared, but the solvents used in both latex and oil-based paints are usually hazardous. Excess unopened or scarcely used paint in good condition should be offered as surplus property. Paint that has been opened should only be thrown away if it is completely dry. If not dry, it can be painted onto something or disposed as hazardous waste.

WASTE REDUCTION

WASTE COSTS

The cost to dispose of hazardous chemical waste will often exceed the original purchase price of a chemical or chemical product. The College encourages waste generators to use waste reduction techniques. If followed, the techniques listed below will help reduce the volume of waste, which will have a corresponding effect on the cost of disposal. Because the costs are variable, they are not listed here.

In addition to disposal costs, there are fines from regulatory agencies for not properly handling waste materials. These fines can be as much as \$10,000 per day, and are closely tied into storage and labeling guidelines.

PURCHASING

Purchase chemicals to match anticipated needs. This aspect of waste and cost reduction is frequently overlooked. A substantial portion of hazardous waste generated at Southwestern consists of chemicals that are in original containers, and are unused or of questionable purity due to previous use. Projected savings from purchasing chemicals in a larger size are often offset by costs for disposal of unused portions of larger bottles, especially those with a limited shelf life. It may not be possible to exactly determine future needs, but any effort will be beneficial.

CHANGE PROCEDURES

A procedure that uses a hazardous substance can often be modified to lessen the hazard or amount of waste products resulting from that procedure. In many cases, a less hazardous material can be substituted and perform as well. An example is substituting a commercial lab glass cleaner (e.g. NOCHROMIX) in place of chromic acid cleaning solution. The resulting mixture is still hazardous because of its corrosive properties, but has no toxic chromium and can therefore be neutralized. Reactive substances, those that react with water or air or are unstable, are especially troublesome disposal items. Disposal costs associated with picric acid, for example, can be as much as ten times the original purchase price.

UNKNOWNNS

Unknowns are difficult and expensive to dispose. Unknowns can be prevented by good record keeping and labeling, which includes designation of constituents and percentages. If unknowns are found, the responsible department must make every effort to identify the material. If this is not possible, then the responsible department will be billed for the cost of identification or classification required for disposal of the unknown chemical, in addition to disposal costs.

RECYCLING

Chemical recycling is possible if material is in unopened containers or partially used original containers and of high quality. These materials are made available to interested parties at Southwestern. Be careful not to obliterate any parts of labels. Chemicals and chemical products should not be given or sold to the general public or offered as surplus property. Commercial chemical products may be offered for surplus if reasonable cautions are followed.

SEGREGATE

Segregate wastes as much as possible. Mixing a low-cost disposal item with a higher one makes the entire lot a higher cost item.

STORAGE

The storage of hazardous materials must be in compliance with federal and state regulations. Your methods of handling waste are subject to unannounced inspections by state regulatory inspectors.

All containers need to have a label at all time indicating contents. For waste materials, this could be a simple label such as "WASTE SOLVENT" or "USED ACETONE".

Put the label on the container **BEFORE ADDING WASTE.**

All containers need a lid at all times when not actively adding or removing waste.

Evaporation in a hood is not a legal disposal method. Funnels do not count as lids.

Secondary containment is advised for liquid containers.

Storage limits and locations are the same for waste as for new materials. For example, storage of flammable liquids in excess of 10 gallons requires a flammable liquid storage cabinet. Glass bottles may not be stored on the floor because accidental kicking can easily break them.

DISPOSAL

Contact the College Facilities Department at extension 7250 for the disposal of:

- aerosol cans
- asbestos
- batteries
- biohazards and sharps
- chemical waste
- pump oil
- photographic fixer
- unused paint
- empty rinsed recyclable glass

NON-HAZARDOUS WASTES, TREATMENT, RECYCLING

NON-HAZARDOUS CHEMICALS

Solids should be collected in disposable, non-leaking containers, labeled with contents, clearly marked as non-hazardous, and prepared for disposal.

The Facilities Department will accept any well identified non-hazardous waste for no charge; it can alternatively be placed into the campus garbage collection system.

Solutions containing only non-hazardous, water miscible liquid materials, pH between 6 and 9, can be disposed through the sewer system. Remember though, that "hazardous" includes flammable liquids even if water-soluble.

If questions arise as to a specific chemical's hazard status, contact the Facilities Department.

The items listed below are considered NON-hazardous:

- Acetates: Ca, K, Na, K, Mg, NH₄
- Naturally occurring amino acids and salts
- Citric acid and salts of Na, K, Mg, NH₄, Ca
- Bicarbonates: Na, K
- Borates: Na, K, Mg, Ca
- Bromides: Na, K, NH₄
- Carbonates: Na, K, NH₄
- Chlorides: Na, K, Mg, Ca, NH₄
- Lactic acid and salts of Na, K, Mg, NH₄, Ca
- Sugars and sugar alcohols
- Starch
- Iodides: Na, K, Ca

- Oxides: B, Mg, Ca, Al, Si, Fe, Zn
- Phosphates: Na, K, Mg, Ca, NH₄
- Silicates: Na, K, Mg, Ca
- Sulfates: Na, K, Mg, Ca, NH₄

CHEMICAL RECYCLING

Chemical Recycling is possible if material is in unopened containers or partially used original containers and of high quality.

- These materials are made available to interested parties at Southwestern. Be careful not to obliterate any parts of labels.
- Chemicals and chemical products should not be given or sold to the general public or offered as surplus property.
- Commercial chemical products may be offered as surplus property if reasonable precautions are followed.

CHEMICAL TREATMENT

Neutralization can be performed on wastes which are hazardous only because they are corrosive (acids, bases).

A neutralized solution should have a final pH value between 6 and 9. Corrosive waste should not be discharged through the sewer system.

The Southwestern Facilities Department staff can neutralize corrosive materials, if necessary, and may be able to provide waste generators with appropriate neutralization materials. Treatment of other materials to lessen the hazard or amount of a waste can be included as part of standard operating procedures in laboratories. Such procedures should be written and made a part of specific experimental protocol.

CHEMICAL WASTE DISPOSAL

Hazardous chemical waste refers to any material substance that is:

CORROSIVE (pH<2 or pH>12)

REACTIVE (oxidizers, water reactive)

FLAMMABLE (flash point <140 F)

TOXIC

Hazardous waste is incinerated (at off-site locations). The Facilities Department is charged for the cost of hazardous waste disposal, so departments are encouraged to employ waste reduction procedures to limit costs. Use the following guidelines to dispose of hazardous chemical wastes.

CONTAINERS

All waste must be in appropriate NON-LEAKING containers with lids that are non-leaking, tight fitting and are not cracked, broken, or chemically damaged.

The container size should match the amount of waste.

Containers must be compatible with the waste contained.

Liquid containers must be less than 5 gallons and weigh less than 45 pounds.

Paper or cardboard primary containers should be put into sealed plastic bags.

Except for common solvents, which can be bulked together, waste disposal charges are related to container volume rather than solely a weight basis; a partially full container may cost the same as a full one.

LABELS

All unused chemicals in original non-leaking containers with manufacturer's label will be accepted as is.

All other waste require an orange hazardous waste label, available from the Facilities Department, which must be completed and attached to each waste container, except for very small containers.

Labels should be affixed in a manner that does not cover existing labels or markings.

PACKING

Waste generators should find cardboard boxes and make them available to the Facilities Department staff at the time of waste removal.

DO NOT pack waste in boxes, since waste containers will be examined by visual inspection.

The Facilities Department staff will pack waste in boxes according to compatibility.

Boxes should be sealable when necessary, and sturdy enough to transport the material.

Boxes exceeding 45 pounds or 18 inches on a side cannot be safely handled by one person, and will not be picked up.

PICKUP

To request waste pickup, call the Facilities Department at extension 7250.

In all cases, furnish the following information:

- name
- phone
- department
- pickup location (building and room number)

You will be notified by Facilities of pickup date and approximate time (usually within 1 week).

SPECIFIC WASTES

AEROSOL CANS

All aerosol cans are considered hazardous waste until completely empty and punctured.

Campus departments may purchase devices to open aerosol cans and drain contents, except for cans with pesticides or other highly toxic materials. Cans will be picked up as with other hazardous wastes. Departments that produce a lot of aerosol cans are encouraged to purchase their own opening device, in consultation with the Facilities Department.

PHOTOGRAPHIC DARKROOM CHEMICALS

Used photographic chemicals are typically non-hazardous waste, but may not be; common contaminants would include silver and chrome. In addition, many darkroom chemicals are outside the allowable pH levels for disposal as non-hazardous waste.

USED OIL

Used motor oil from internal combustion engine processes is recycled through the Facilities Department. All used oil produced in laboratory operations, including pump oil, must be disposed of through the hazardous waste disposal program. Identification of possible contaminants is essential.

ORGANIC SOLVENTS

Organic solvents can be combined and reused for (off-site) fuel or solvent recovery. There is no minimum amount needed for requesting disposal. If organic solvents are mixed with other chemicals, the mixture will become unsuitable for heat recovery and costs will increase. "Other chemicals" include halogenated solvents, acutely toxic flammables, acids, bases, heavy metals, oxidizers, and pesticides. Halogenated solvents should be separated from other liquids for solvent recovery.

INFECTIOUS WASTE

Infectious waste must be disposed of in a carefully controlled manner in accordance with regulations administered by both the Oregon DEQ and the Health Department. Infectious wastes must either be incinerated or treated prior to disposal. Infectious waste has been defined to include biological waste, cultures and stocks, pathological waste, and sharps. The term infectious waste is synonymous with biohazard. The term does NOT include chemical agents, such as carcinogens, which affect living organisms through chemical means.

DEFINITIONS

BIOLOGICAL WASTE

Includes blood and blood products, excretions, exudates, secretions, suctioning and other body fluids that cannot be directly discarded into the municipal sewer system, but EXCLUDES articles contaminated with fully absorbed or dried blood. Biological waste must either be incinerated or sterilized with steam in a dedicated autoclave. After treatment, biological waste may be treated as normal refuse.

CULTURES & STOCKS

Include etiologic agents and associated biologicals, including specimen cultures and dishes and devices used to transfer, inoculate and mix cultures. The definition also includes wastes from the production of biologicals, serums, and discarded live or attenuated vaccines. Cultures and stocks must be treated in the same way as biological waste.

SHARPS

Includes needles, scalpel blades, lancets and syringes that have been removed from their original sterile containers. Sharps must be incinerated. The definition DOES NOT exempt needles or syringes used for non-infectious materials, such as transferring chemical solutions.

DISPOSAL

Those wastes that must be incinerated must be collected and taken to a DEQ permitted infectious waste incinerator. Those which may be disposed in the ordinary trash should be clearly marked "NON-INFECTIOUS" or "STERILE" and put inside outer packaging which is NOT red or orange in color. AUTOCLAVES used for infectious waste treatment must be designated and tested.

Users must develop written operating procedures, keep records which detail parameters for treatment, methods for monitoring, methods for indicating adequate sterilization conditions during each treatment, and monthly tests of sterilization conditions using a specified biological indicator.

The Facilities Department will collect full sharps containers from campus locations. Waste generators who anticipate having other infectious wastes which require incineration will need to contact an infectious waste disposal firm to arrange for a schedule for pickup from their lab. Call the Facilities Department for contacts.

STORAGE

Infectious waste should be segregated from other wastes by putting in separate containers at the point of generation.

All containers should be located to minimize access by unauthorized persons and clearly identified as containing infectious waste.

Except for sharps, infectious waste should be stored in red plastic bags OR containers made of other materials impervious to moisture and strong enough to prevent tearing under normal use conditions.

Pathological, biological and culture/stock wastes should be treated or disposed with 7 days of generation or with 30 days if refrigerated or frozen.

If a waste generator (laboratory or department) produces less than 50 pounds of waste in a calendar month, the 7-day storage limitation does not apply.

SHARPS should be contained in leak proof, rigid, puncture resistant RED containers which have tight lids or are taped closed.

Sharps containers can be purchased from commercial vendors and are also available at chemistry stores.

There is no limit on the length of storage for sharps.

GLASS RECYCLING

Glass at Southwestern is recycled through the Facilities Department. The glass-recycling program should not be used as an avenue to circumvent the proper disposal of chemical wastes, including the residues of chemicals in containers. In order to avoid continuing problems associated with its collection, the following guidelines should help when preparing glass for recycling.

1. Clean glass of all chemical residues. Proper chemical disposal policies should be followed for chemical disposal. Employees who recycle glass must handle these containers, and should not be exposed to hazardous or unknown materials. Separation of glass by color is NOT necessary.
2. Remove lids from containers. If necessary to prevent rain accumulation, replace with foil caps or plastic wrap.
3. Keep broken glass to a minimum. Any clean broken glass should be loosely packaged to facilitate removal without exposing recycling employees to sharp edges. Broken bottles should be handled carefully.
4. Protect containers left out of doors to prevent rain accumulation inside them. Water inside bottles may be mistaken for a liquid chemical, and generally makes the recycling process more difficult. Turning bottles upside-down works well.
5. Pay careful attention to types of glass. Listed below are the types of glass that are NOT acceptable for recycling. Non-recyclable glass mixed with recyclable causes more difficulties for the recycling operation than any other.

NON-RECYCLABLE GLASS

1. Heat Resistant Glass, which includes borosilicate glass (hard glass or lab glass):
 - corning
 - Pyrex
 - Kim
 - Kimball
 - Pasteur or volumetric pipettes
 - glass tubing & rods
 - microscopic slides and cover glasses
2. Plate Glass (window glass)
3. Automotive Glass

EMPTY CONTAINERS

Containers that have held hazardous substances are empty by definition when one of two conditions are met. For one group of materials, a container is empty when all contents have been removed by techniques ordinarily used for that type of material (e.g., pouring for liquids), and the container has less than 3% of the original contents. For another group, a container is only empty when it has been triple rinsed with a solvent capable of removing the remaining contents. Contact the Facilities Department for specific discussions of which group a material falls into.

In all cases, it is worthwhile to remove as much of the contents as possible before disposal (including recycling). For liquids, this would be turning the container upside down and letting it drain until no more drops will come out.

EMERGENCIES

HAZARDOUS MATERIALS SPILLS are an inevitable part of most work environments. To effectively combat spills, it is necessary to prepare for them beforehand. Whenever employees work with a substance, they should be aware of its characteristics, and should have formulated plans of what to do in case of a spill, including what steps to take, who to call for assistance, what personal protective equipment is necessary, and what material is appropriate content with a spill, and where to find appropriate spill-response equipment. The chemical spill response capability available from the Facilities Department does not lessen the responsibility of work groups to prepare plans to deal safely with small spills. Departments are encouraged to have spill response kits at strategic locations.

HAZARDOUS WASTE EMERGENCY INFORMATION

In the event of an emergency, the following numbers should be called as needed.

EMERGENCY NAME: Dave McKinney – Director of Facilities
PHONE: 888-7250 or 297-4206

ALTERNATE NAME: Campus Security – 297-4200
PHONE: 888-7399 or 297-4200

FIRE DEPT.: 9-9-1-1
HOSPITAL: Bay Area Hospital
541-269-8085
POLICE: 9-9-1-1

Spill control equipment is located: with the Facilities/Campus Security Department. Call the Emergency number (x7250 or x7911) for assistance.

NATIONAL RESPONSE CENTER
1-800-424-8802

OREGON EMERGENCY RESPONSE SYSTEM
1-800-452-0311

REPORTING

The Facilities Department at Southwestern can be contacted for assistance in dealing with a chemical spill by calling extension 7250 or 541/297-4200. The Oregon DEQ has established regulations requiring the College to submit reports for chemical spills over certain specified amounts.

All large spills of a hazardous chemical (more than 1-gallon liquid or 1 pound solid) must be reported promptly to the Facilities Department, who will make the report to DEQ if necessary. Reporting smaller spills is not required, but encouraged; Facilities will respond appropriately to reports of any size spill.

MERCURY

The Facilities Department's response capabilities include a vacuum designed for cleaning up mercury spills. To aid that effort, do not spread other chemicals or absorbent materials on mercury spills. Doing so will make it more difficult to clean up the mercury and increase the disposal cost of contaminated debris.

PROCEDURES

If the risk assessment suggests you can safely and properly clean up the spill (if not, call the Facilities Department):

1. Get personal protective equipment (PPE). Do not attempt spill response until you have put on PPE appropriate for the situation. Available equipment may include respiratory protection, goggles, gloves, impervious shoes/boots, and body protection. All equipment will not be necessary for every situation, but should be available. If you are unsure about your ability to control a spill, get assistance. Any spill for which respiratory protection is needed must not be conducted without backup personnel equipped in the same manner. This level of spill should be left to the College's Facilities Department.
2. Get spill control equipment from your department's spill kit. Spill control materials are sold in two general forms: loose materials (vermiculite, cat litter) and spill control pillows, which are produced in various shapes and contain different types of absorbents. Spill control pillows are preferred because they are much easier to pick up when finished. Also available are materials designed for specific types of chemical spills such as acids or solvents. In general, spilled liquids present more danger than solids, and quick response is therefore critical. For flammable liquids, special attention should be paid to potential ignition sources in the vicinity.
3. Absorb the spill. If there is danger the spill may spread, dike the perimeter with absorbent, and then absorb. "Floor chemistry" should not be attempted. If you desire to perform simple neutralization/treatment schemes, first absorb and contain the material.
4. Collect the contaminated absorbent and put into a sturdy leak proof container. Close the container if there are volatile substances that may continue to pose a threat.
5. Dispose of the contaminated absorbent in the same manner you would dispose of the substance that was spilled. If the spilled chemical is hazardous, do not put the cleanup residue in the dumpster. If hazardous, contact the College's Facilities Department to dispose.

FIRST AID

In situations that require first aid treatment, call 9-9-1-1 from a College extension (911 from an outside line) to reach the Coos Bay Fire and EMS Dispatch. The Facilities and Campus Security Departments should also be notified.

Emergency Action Plan

ACCIDENT AND INJURY EMERGENCY PROCEDURES

Actions

1. First, determine the extent of the accident or injury. If there is a serious condition, contact 911. If not able to determine if there is a serious condition, contact 911. When in doubt, it is better to get assistance than to hesitate.
2. Before leaving the scene of an accident or injury to call for emergency assistance, calmly survey the scene and determine:
 - Location of the accident
 - Location of the nearest phone
 - What happened
 - How many are injured
 - Condition of the victim(s)
 - Help (first aid) being given

This information will be needed when calling for assistance.

3. Contact 911 Emergency Assistance in one of three ways:
 - (1) Pick up a black emergency telephone – this will connect you to Campus Security who will call 911
 - (3) Dial 9-911 from a campus telephone – this will connect you to a 911 Operator. Dial 9, wait for dial tone, then dial 911

Be sure to stay on the line with security personnel or the 911 operator until they have all the information they need.

4. If you call 911 emergency assistance directly, contact Campus Security immediately afterwards to inform them of the situation.
5. For more information on contacting 911, see Emergency Numbers.

ACCIDENT AND INJURY EMERGENCY PROCEDURES

EMERGENCY NUMBERS

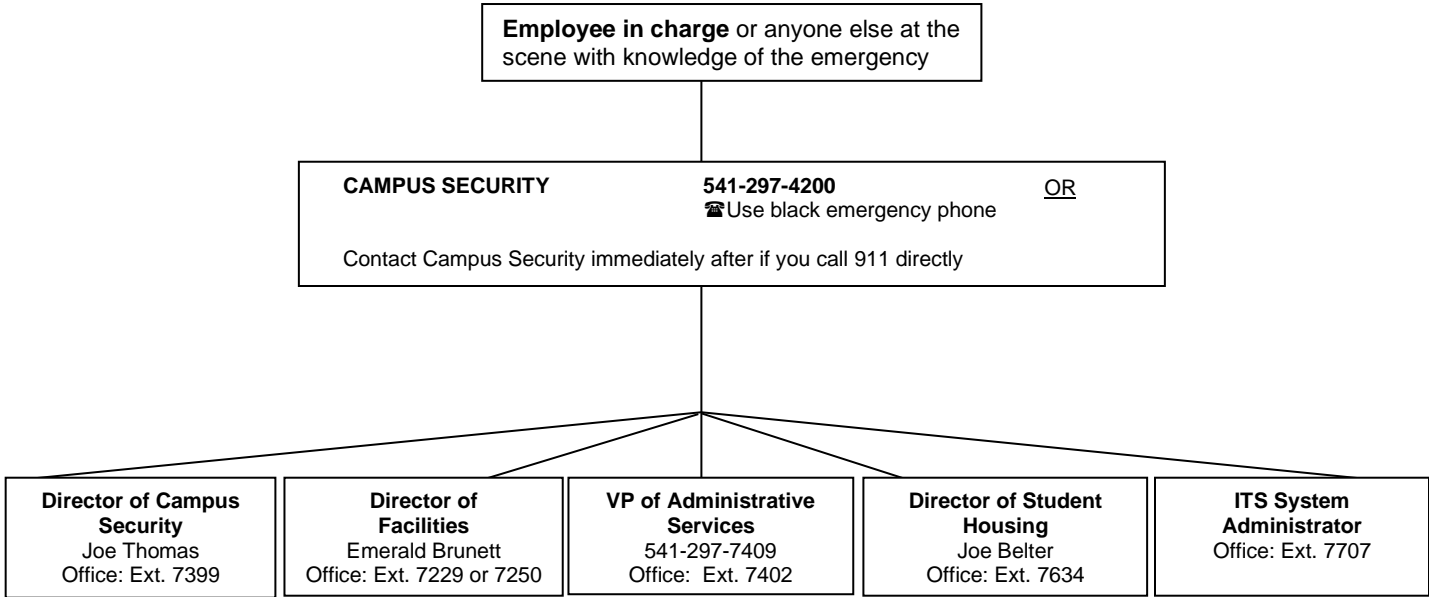
When using a College telephone, dial "9" before dialing 911 or any other outside number

Dial 9-911 from a campus telephone. This will connect you to a 911 Operator.
 Pick up a black emergency telephone. This will connect you to Campus Security
 Off Campus call 911
 Campus or Class Closure Information.....541-888-1503

Campus Security.....541-297-4200
 Campus Security Non-Emergency.....Ext. 7399
 Facilities Non-Emergency.....Ext. 7250
 Facilities Emergency.....541-297-4200

Important: Store the following number in your cell phone: Campus Security which is available 24/7: 541-297-4200

EMERGENCY PHONE LIST: Chain of Notification in the Event of an Emergency



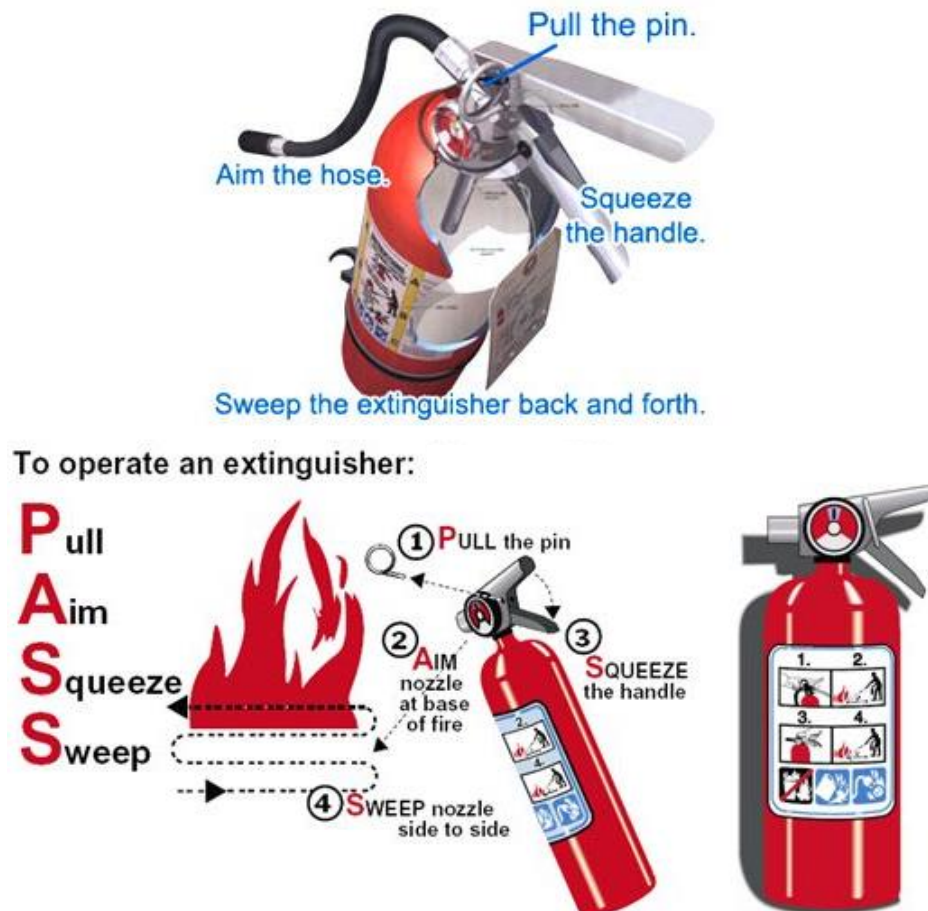
CAMPUS SECURITY 541-297-4200 EMERGENCY PHONE NUMBERS 911

EMERGENCY EQUIPMENT

First aid kits, fire extinguishers, and fire alarms (pull stations) are located on each floor in each building. All Southwestern employees should know where the closest first aid kit, fire extinguisher, and fire alarms are in relation to their primary workstation. There are also Automatic External Defibrillators (AEDs) in specific buildings on campus that are available for emergency use. To find AEDs in your area, go to the Administrative Services portal in Lakerlink and click on the [AED List](#).

HOW TO USE YOUR FIRE EXTINGUISHER

The ABC extinguishers found on campus may be used on all classes of fires. In addition, other areas have carbon dioxide extinguishers for use on Class B and C fires.



To view a video of fire extinguisher use, go to [Fire Extinguisher Training](#)

FIRE EXTINGUISHER INSTRUCTIONS

EVACUATION PROCEDURES

1. When evacuating a building, walk briskly, do not run. Remain calm and act in a quiet, orderly manner. Help people in need of assistance.
2. The stairways in Tioga, Prosper, Stensland, Newmark Center and Empire Hall are designed primarily as fire escapes. They are insulated and reinforced, offering the best protection when exiting these buildings. If for some reason your designated exit (stairway or other) is blocked, quickly go to the nearest alternative fire exit. **DO NOT USE THE ELEVATORS**
3. Once outside of the building, go directly to your designated rally point.
4. Keep streets, fire lanes, hydrants and walkways clear for emergency vehicles and crews.
5. Do not return to an evacuated building unless told to do so by the Police, Fire Department, Campus Security, Facilities, VP of Administrative Services, or other designated emergency personnel in charge. The message to return to an evacuated building will be given at the rallying points.

Note: If there is time before evacuating, turn off all computer equipment and other office equipment if possible.

Designated Rally Points



BUILDING	RALLY POINT	BUILDING	RALLY POINT
1. Stensland	Parking Lot #1	12. Eden	Parking Lot #3
2. Dellwood	Parking Lot #1	13. Lampa	Parking Lot #3
3. Randolph	Parking Lot #1	14. Sunset	Parking Lot #3
4. Empire	Parking Lot #1	15. Sumner	Parking Lot #3
5. Umpqua	Parking Lot #1	16. Fairview	Softball Field
6. Maintenance	Parking Lot #1	17. B-2	Softball Field
7. OCCI	Parking Lot #1	18. Greenhouse	Softball Field
8. Student Housing	Parking Lot #1	19. Fire Science	Baseball Field
9. Tioga	Parking Lot #2	20. Prosper	Track
10. Sitkum	Parking Lot #2	21. Rec Center	Track
11. Coaledo	Parking Lot #2	22. Family Ctr.	Parking lot in front
		23. Newmark Ctr.	Parking lot in front

When evacuation is required (for bomb threat, fire, earthquake, etc.), move to a clear area at least 300 feet from affected building(s). Keep streets, fire lanes, hydrants, and walkways clear for emergency vehicles and crews.

EVACUATION PROCEDURES

HAZARDOUS MATERIALS/BODY FLUIDS SPILL/ MEDICAL ASSESSMENT

Chemical Exposure

There are many chemicals that can cause adverse health effects. There are other chemicals that present physical hazards and are unstable; if handled improperly they can cause fires or explosions.

If a major chemical spill occurs, try to contain it by closing doors, windows, etc., before leaving the affected area. Call Campus Security at 541-297-4200.

If someone is exposed to a potentially harmful chemical, a Safety Data Sheet (SDS) for the specific chemical should be found. The SDS books are located near the first aid kit stations in each building. The SDS will give you instructions on how to treat someone exposed to the chemical, whether to the skin, eyes, etc. Another way to obtain an SDS is to go to <http://chemicalsafety.com/sds-search/> on the web. Simply type in the product name and the SDS for that product will appear. You may also Google the chemical name and manufacturer to find the SDS. For the College's Hazard Communication program, go to [Hazard Communication Program](#). Finally, to reach the Poison Center, call 1-800-222-1222 which is available 24 hours a day/7 days a week.

Body Fluids Exposure

UNLESS IT IS A LIFE AND DEATH SITUATION, DO NOT HANDLE BODY FLUIDS. CONTACT CAMPUS SECURITY AT 541-297-4200 FOR ASSISTANCE. CONTACT FACILITIES AT 541-297-4206 FOR NECESSARY CLEAN UP. If you must handle another person's body fluids, wear disposable gloves at all times. NEVER TOUCH BODY FLUIDS WITHOUT GLOVES. Avoid getting body fluids in your eyes, mouth, open sores, or wounds. If exposed, rinse the affected area immediately and wash with soap and water and contact Administrative Services immediately and complete an incident report form. For the College's Bloodborne Pathogens program, go to [Bloodborne Pathogens Exposure Control Plan](#)

Medical Assessment Procedure

If a serious medical condition is encountered, ask yourself the following questions, and follow the appropriate procedures:

- Is it a life threatening condition?
- Does there appear to be breathing difficulty?
- Is there severe bleeding?
- Is the person unconscious or extremely dizzy?

If yes to any of these questions, call 911

After calling 911, contact Campus Security at 541-297-4200.

Before an emergency occurs, please familiarize yourself with where first aid kits and AEDs are located in your work area. Kits are replenished on a regular basis; if you notice supplies running low, please call Campus Facilities at 541-888-7250.

After a medical incident, please complete an incident report form (located at [Incident/Injury Report Form](#)) and return it to Administrative Services in T511.

CHEMICAL EXPOSURE ✨ BODY FLUIDS ✨ MEDICAL ASSESSMENT

ACTIONS IN THE EVENT OF SPECIFIC SITUATIONS

Severe Weather Conditions

The President or designated representative will make the final decision on campus closure in accordance with Board Policy 5015 Emergency Closures.

In severe weather, call **541-888-1503** for current campus or class closure information. You may also tune to 98.7 FM (KYTT), or 97.3 FM (KSHR). Weather closures will be announced by 6:00 a.m.

The message broadcast will be one of the following:

- Classes being held and offices are open;
- No classes, but offices are open; or
- No classes and offices are closed.

To receive automatic emergency notifications, including campus closures, sign up for RAVE, Southwestern's emergency notification system.

High Winds, Heavy Rains and Flooding

When a high wind warning has been given, it will be followed by instructions to evacuate (if time permits) or instructions to shelter in place. When there is not ample time to evacuate and you must remain in your building:

- do not attempt to evacuate; remain in the building;
- stay away from windows, doors and outside walls;
- protect your head from falling objects or flying debris, and;
- take cover immediately under something sturdy such as a table.

In heavy rains, be especially aware of flooded areas. Move immediately to a safer location. **DO NOT WAIT FOR INSTRUCTIONS TO MOVE.**

- Stay away from flooded areas. Even if it seems safe, the water may still be rising. Never try to cross a flowing stream on foot.
- Stay away from natural streams and drainage channels during and after rainstorms.
- Watch for and avoid mud slides, broken sewers or water mains, loose or downed electrical wires, and falling or fallen objects.

Utility Failure

In the event of a utility failure, stay where you are. If there is emergency lighting, evacuate the space. If there is no light, wait for instructions or help to arrive. No open flames (matches, candles, cigarette lighters, etc.) should be used as temporary lighting. If a utility failure occurs, call Campus Security at 541-297-4200, who will then notify the Director of Facilities Services.

Elevator Failure

In the event of an elevator failure, do not panic.

1. Sound the alarm in the elevator.
2. Use the elevator's phone to call Campus Security at 541-297-4200.
3. If no one answers at the Facilities Office or assistance has not arrived, dial 9-911.
4. Facilities personnel will lower the car to the first floor level and will then open the doors.

SEVERE WEATHER CONDITIONS ❁ UTILITY FAILURE ❁ ELEVATOR FAILURE

EARTHQUAKE/FIRE & EXPLOSION/TSUNAMI

Earthquake

- Keep calm and stay where you are. Most injuries during an earthquake occur when individuals decide to enter or exit buildings.
- If you are indoors, take cover under a desk, table or bench, against an inside wall or wood framed doorway, and hold on. Stay away from glass, windows, outside doors or walls and anything that could fall and hurt you, such as lighting, furniture or fixtures.
- If you are outdoors, stay there. Move away from buildings, trees, street lights and utility wires.
- If you are in a crowded public place or classroom, do not rush for a doorway as other people will have the same idea. Take cover, and move away from objects that may fall.
- Do not be surprised if the electricity goes out or if the sprinkler system or elevator or fire alarms go on as this often happens. **DO NOT USE ELEVATORS.**
- Be prepared for aftershocks, which have been known to occur from less than one minute after the initial shock to more than one year later. Most aftershocks occur 24 to 48 hours later. These secondary shock waves are usually less violent than the main earthquake, but can be strong enough to do additional damage to weakened structures.
- Do not use candles, matches, or open flames either during or after the earthquake because of possible fire danger.
- If told to evacuate, follow Evacuation Procedures.



Tsunami

If you feel an earthquake, a tsunami may be coming:

- Drop, cover, hold until the earthquake is over
- Move immediately inland to high ground and away from low-lying coastal areas
- Follow evacuation route signs
- Do not wait for an official warning
- Go on foot if at all possible
- Do not pack or delay
- Do not return to the beach – large waves may continue to come onshore for several hours
- Wait for an “all clear” from local emergency officials before returning to low-lying areas.



Know your local tsunami hazard zones and evacuation routes. Your work area should have a current tsunami evacuation zone map. If you wish to see if your home is in a tsunami zone, click this link [Tsunami Evacuation Zones](#).

Fire and Explosion

At the first alert of a fire, evacuate all personnel from the affected area. Small fires can be controlled with a fire extinguisher, but do not try to put out a fire which is getting out of control – get help immediately.

1. Before calling for emergency assistance determine:
 Location of the fire (building, floor, etc.) Flames or smoke seen What, if anything, has been done so far
2. Call for emergency assistance
Use black emergency phone to reach Campus Security or dial 9-911 from a campus phone for a 911 operator.
Remember to stay on the line until all information is given and you are released. For more information see Emergency Phone Numbers and Fire Extinguisher Instructions.

EARTHQUAKE ✨ TSUNAMI ✨ FIRE & EXPLOSION

BOMB THREATS/VIOLENT CRIME

Bomb Threat

When a bomb threat is received by phone:

1. record the exact wording of the message,
2. listen closely for voice/speech peculiarities and background noises,
3. listen for repeated use of certain words or phrases,
4. note description of voice (male, female, high, low, muted, etc.)
5. jot down Caller ID#
6. note the time the call was received and what line the call came in on, and
7. if possible, delay the caller by asking questions such as:
 - * What time is the bomb to explode?
 - * Where is the bomb?
 - * What kind of bomb is it?
 - * How did the bomb get into the building?
 - * Why was it placed?

When the call is terminated, immediately contact Campus Security to relay the above information as well as your name and place of work. Do not disclose the bomb threat to anyone else.

1. Before evacuating the building, all staff should make a quick visual inspection of their areas and report any suspicious circumstances to Campus Security who will relay the information to the proper authorities. If Campus Security is unavailable, call 911.
2. Under no conditions should any unusual object be touched or disturbed. Do not use cell phones around a potential bomb. Avoid causing any type of vibration.

Violent Crime

When witnessing or involved in a violent crime, contact Campus Security at 541-297-4200. THE PRIMARY CONCERN IS TO GET HELP. For more information, see "Active Shooter" section.

PROCEDURES TO ASSIST DISABLED PERSONS

Visually-Impaired Persons

In the event of evacuation, explain to the person that evacuation procedures have begun and offer to guide her/him to the appropriate exit. Have the person take your elbow. As you walk, describe where you are and advise of any obstacles. When you have reached safety, reorient the person and ask if any further assistance is needed.

Hearing-Impaired Persons

Persons with impaired hearing may not perceive emergency alarms. Alternate warnings must be given. Two methods are: (1) writing a note telling what the emergency is and the nearest evacuation route, or (2) turning the light switch off and on to gain attention, then indicating through gestures or in writing what is happening and what to do.

Mobility-Impaired Persons

When assisting a person with a mobility impairment, remember that EvacuTracs are available in:

1. Tioga 3rd and 5th floors. See EvacuTrac instructions at [Garaventa Tioga 3rd and 5th floors](#)
2. Prosper gym floor level. See EvacuTrac instructions at [Garaventa Prosper gym level](#)
3. Newmark Center at the top of the stairs above the central lobby. Instructions are on the EvacuTrac.

Use the EvacuTrac to move a mobility-impaired person. Only carry a person as a last resort.

People using crutches, canes or walkers should be treated as if they were injured persons for evacuation purposes. Carrying options include using a two-person lock arm position or using a sturdy chair, preferably one with arms, to transport the individual.

Most people in wheelchairs will be able to exit from the ground floor without assistance. Some people have minimal ability to move and lifting them may be dangerous to their well being. Non-ambulatory persons' needs and preferences will vary. Always consult the person as to preference in regard to:

- ways of being removed from the wheelchair
- number of people necessary for assistance
- whether a seat cushion or pad should be brought along if the person is removed from the wheelchair
- whether to extend or bend extremities when lifting because of pain, catheter, leg bags, braces, etc.
- being carried forward or backward on a flight of stairs
- care after evacuation, if removed from the wheelchair

Wheelchairs may have many movable or weak parts which were not constructed to withstand the stress of lifting, e.g., the seat bar, foot plates, wheels, arm rests.

Some people in wheelchairs may have electrical artificial respirators attached. They should be given priority assistance if there is smoke or fumes as their ability to breathe is seriously jeopardized.

If the wheelchair is left behind, remove it from the stairway and place it so it does not block others. If the wheelchair is to be taken, remove the batteries (if a power wheelchair) before attempting to transport it. Make sure the footrests are locked and the motor is off.

If the Newmark Center requires evacuation, the top of the stairwells at the east and west ends of the building are areas of rescue assistance. If a person cannot be moved safely down the stairs, these areas are fire-resistant for up to one hour. Push the button at the top of the stairwell; speak clearly into the microphone; you will be heard outside by emergency personnel who know to come to the building to assist you. If Stensland Hall requires evacuation, there are two areas of rescue assistance on the second floor. The first is the door next to the bathrooms marked "Area of Rescue Assistance." The second area is on the exterior landing on the west side of Stensland.

EVACUATION OF DISABLED PERSONS

ACTIVE SHOOTER

There are certain things you can do to minimize your chances of becoming a victim of a shooter. Below you will find certain suggestions that faculty, students and staff can take if you are ever confronted with a situation of this nature. Remember to stay calm and try to follow these steps during a shooting.

DISCLAIMER: The purpose of this information is to present you with tools that may increase your chances of surviving an active shooter incident at SWOCC. The following is general information and is not all-inclusive.

**Always notify the Police Department by calling 911 as soon as it is safe to do so.
Do NOT set off the fire alarm in a lock down/active shooter situation.**

Shooting Incident Outside:

- If possible, immediately run to a building, enter a room, and lock the door if possible. The more distance you can put between yourself and the shooter, the better.
- Try to be a moving vs. a non-moving target. Run in a zig-zag manner. Drop anything you are carrying that may slow you down.
- Use a tree, vehicle, wall, etc., for cover and concealment from the gunman.
- If you are caught out in the open, get on the ground and lay flat. Do not move until the gunman has left the area.

Shooting Incident in a Classroom, Office, Auditorium, Dining Hall, etc.

- If a gunshot or explosion is heard, lock doors/windows, pull blinds down immediately, and shelter in place. **Stay away from doors and windows.** Reinforce the door with furniture, desks, file cabinets or any other material available to you. Your goal is to keep the shooter from entering the room. Get down on the floor and remain there. Call 911 if possible.
- If safe to do so, allow others to seek refuge with you.
- If you are not in a secure location and it is safe to move, go to a near-by room that can be locked or barricaded.
- Turn off lights, computer monitors, any radios, and close the blinds and cover any door window with an opaque cover.
- Place all cellular phones on silent. Even vibration mode can give you away.
- Keep people calm and quiet. If able to do so safely, **quietly** discuss with others in the room what you will do if the shooter enters the room.
- If the assailant enters your room and leaves, lock or barricade the door behind them.

In a Hallway or Corridor

- Attempt to gain access to a classroom or office prior to them being locked and secure as listed above.
- If you cannot get into a secure location, find the nearest exit and get out of the building as fast as possible. When outside of the building, find the fastest way off campus.

If Confronted by Gunman

- If the gunman confronts you, consider the following options.
 - Listen to what the gunman says; do not do anything to provoke or alarm the gunman. Keep your hands visible. At this point it is up to you to do what you feel is necessary to help save your life and the lives of others around you.
 - If the gunman does start shooting, you must decide how you are going to proceed. You can stay where you are, take cover where possible and hope that you are not hit while the gunman is shooting. You have the option of running to the nearest exit. It is recommended that if you do this, you run in a zig-zag pattern as it will be harder for the shooter to hit you if they fire toward you.
 - If your life is in imminent danger, a last resort would be to attack the gunman. Be aware of your surroundings from the very beginning of the incident. If you find something that you could use to assist in the attack of a gunman, be sure to think about how to use it. Be aware that attacking the gunman is the most dangerous option and should only be considered as a last resort.

If you are able to call 911 without the gunman hearing you, be ready to provide descriptive information.

When Police Arrive:

- The first priority of police will be to neutralize the shooter. Do nothing that may cause you to be confused with the suspect.
- Follow the instructions of the police officers exactly. Keep your hands visible at all times with fingers spread. Put down anything you might have in your hands.
- Do not touch anything at the crime scene.
- Remember, you may be a witness to a crime and may be required to speak with investigators.
- Describe the assailant if he was observed by you.
- Do not open the door to any voice commands even if you recognize the voice. If needed, call 911 to confirm that law enforcement officers have arrived. Do not leave the classroom or office until you have been given the all clear by either a uniformed Police Officer, Campus Security Officer, or recognized SWOCC administrator.

Emergency notification of an active shooter on campus will be done using the RAVE alert system.

REGULAR AND SUBSTANTIVE INTERACTION (RSI) IN ONLINE CLASSES

It is the Administrative policy of the Southwestern Oregon Community College District that the College community in cooperation with the Office of Instruction shall adhere to online course requirements with regards to initiated instructor interactions and demonstrated active and engaged instructor online presence, hereafter referred to as Regular and Substantive Interaction (RSI).

RSI is an instructional standard for online courses at Southwestern and designed to create positive learning environments for students and faculty, as well as adhere to accreditation, state, and federal mandates. **Failure to observe the requirements of RSI could result in required professional development to resume online teaching privileges.**

The required elements of RSI are as follows:

COURSE INTRODUCTION AND WEEK ONE

A personal welcome message or video from the instructor is available when the course opens.

- Message should introduce the course and the instructor and be similar to face-to-face course introductions.
- Message should address course content, what students can expect, tips for being successful in the course, etc.
- Instructor may also schedule synchronous meetings with students during the first week of the course.

Instructor is active in the course during week 1 of the term. Active is defined as recorded instructor access in the course shell **and** responses to student inquiries. To meet this requirement, there must be evidence of the following:

- Recorded instructor access in the course shell at least **twice** during week 1 (Monday-Sunday).
- First instructor activity (either course access or response to student inquiries) took place **no later than** Wednesday of week 1.

WEEKLY ASSIGNMENTS AND ANNOUNCEMENTS

Course design requires student-instructor interaction at minimum of once per week, or as needed to respond to student questions and/or emails, during the course of the term. Weekly interaction happens on a consistent day of the week; the schedule is communicated to students at the beginning of the course.

This requirement could be met by EITHER of the following:

- Weekly course announcements that address course content, expectations of students, tips for success, etc.
- At least one assignment or graded item is due each week.

AND

- Weekly feedback can be demonstrated by any of the following: discussion boards with active instructor comments/participation, recorded lectures or tutorials, instructor emails with comments about academic material or specific comments on student work, instructor comments on tests/quizzes, study tips or review guides, or online meetings/conversations (via Zoom, Skype, etc.).

COMMUNICATION

Policy (listed on syllabus or elsewhere in course) includes ALL of the following information:

- How to contact instructor (LMS interactions only).
- Policy for response time to students' questions within 24-48 hours of due date or receipt of email.
- Policy for weekend communication (Will you check for email on Saturday/Sunday and/or will you respond to student requests in a certain timeframe?)
- As much as possible, the LMS is to be used to capture communications. To include private messaging, private comments on discussion posts, and the blog for non-sensitive communications.
- All faculty-initiated emails shall go through the LMS system.
- For course-related work faculty should use a student's SWOCC email (@email.socc.edu) from Outlook or Webmail and refrain from using personal email accounts.

Adopted as Administrative Policy/Procedure: June 5, 2019