# SDS

# Safety Data Sheets

**Mercy**

**ALL SDS ARE LISTED IN ALPHABETICAL ORDER**



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# MERCY APPROVED CHEMICAL LIST

*Updated 12/20/2019*

## BETCO

- Betco Bright Multi Surface Product (MSP)
- Betco, PH7, Neutral Cleaner
- Betco, Quat Stat SC
- Betco, Top Flight

## CLR

- CLR, Calcium, Lime & Rust Remover

## DIVERSY (JOHNSON WAX)

- Paint Oil Grease Remover

## ECOLAB

- Endure Mild Moisturizing Hand Soap
- Oxycide
- Quick-Care Foaming Hand Sanitizer

## GOJO

- PURELL Advanced Hand Sanitizer Foam
- PURELL Professional Healthy Soap Mild Foam

## OTHER

- Medline, Non Acid Bowl Cleaner
- Shaw, R2X Stain and Soil Remover, RTU
- Sparkle Glass Cleaner
- QuestSpecialty Corporation, Lights Out

## ALL SDS ARE LISTED IN ALPHABETICAL ORDER

- Betco Bright Multi Surface Product (MSP)
- CLR, Calcium, Lime & Rust Remover
- Endure Mild Moisturizing Hand Soap
- Lights Out
- Non Acid Bowl Cleaner
- Oxycide
- Paint Oil Grease Remover
- pH7 Natural All Purpose Cleaner
- PURELL Advanced Hand Sanitizer Foam
- PURELL Professional Healthy Soap Mild Foam
- Quat Stat SC
- Quick-Care Foaming Hand Sanitizer
- Shaw R2X Stain and Soil Remover, RTU
- Sparkle Glass Cleaner
- Top Flight

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# HOW TO READ A SAFETY DATA SHEET

## SECTIONS OF SAFETY DATA SHEETS (SDS)

i. Section 1, Identification;
ii. Section 2, Hazard(s) identification;
iii. Section 3, Composition/information on ingredients;
iv. Section 4, First-aid measures;
v. Section 5, Fire-fighting measures;
vi. Section 6, Accidental release measures;
vii. Section 7, Handling and storage;
viii. Section 8, Exposure controls/personal protection;
ix. Section 9, Physical and chemical properties;
x. Section 10, Stability and reactivity;
xi. Section 11, Toxicological information.
xii. Section 12, Ecological information;
xiii. Section 13, Disposal considerations;
xiv. Section 14, Transport information;
xv. Section 15, Regulatory information; and
xvi. Section 16, Other information, including date of preparation or last revision.

### SECTION 1: IDENTIFICATION INFORMATION

- Product identifier used on the label;
- Other means of identification;
- Recommended use of the chemical and restrictions on use;
- Name, address, and telephone number of the manufacturer, importer, or other responsible party;
- Emergency phone number.

### SECTION 2: HAZARD(S) IDENTIFICATION

- Classification of the chemical
- Signal word, hazard statement(s), symbol(s) and precautionary statement(s). (Hazard symbols may be provided as graphical reproductions in black and white or the name of the symbol, e.g., flame, skull and crossbones);
- Describe any hazards not otherwise classified that have been identified during the classification process;
- Where an ingredient with unknown acute toxicity is used in a mixture at a concentration = 1% and the mixture is not classified based on testing of the mixture as a whole, a statement that X% of the mixture consists of ingredient(s) of unknown acute toxicity is required.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

*FOR SUBSTANCES*

- Chemical name;
- Common name and synonyms;
- CAS number and other unique identifiers;
- Impurities and stabilizing additives which are themselves classified and which contribute to the classification of the substance.

*FOR MIXTURES* - In addition to the information required for substances:

- The chemical name and concentration (exact percentage) or concentration ranges of all ingredients which are classified as health hazards in accordance and
    - are present above their cut-off/concentration limits; or
    - present a health risk below the cut-off/concentration limits.
- The concentration (exact percentage) shall be specified unless a trade secret claim is made, when there is batch-to-batch variability in the production of a mixture, or for a group of substantially similar mixtures with similar chemical composition. In these cases, concentration ranges may be used.

*FOR ALL CHEMICALS WHERE A TRADE SECRET IS CLAIMED*

- Where a trade secret is claimed, the specific chemical identity and/or exact percentage of composition (concentration) has been withheld as a trade secret is required.

**SECTION 4: FIRST AID MEASURES**

- Description of necessary measures, subdivided according to the different routes of exposure, i.e., inhalation, skin and eye contact, and ingestion;
- Most important symptoms/effects, acute and delayed.
- Indication of immediate medical attention and special treatment needed, if necessary.

**SECTION 5: FIREFIGHTING MEASURES**

- Suitable (and unsuitable) extinguishing media.
- Specific hazards arising from the chemical (e.g., nature of any hazardous combustion products).

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment, and emergency procedures.
- Methods and materials for containment and cleaning up.

**SECTION 7: HANDLING & STORAGE**

- Precautions for safe handling.

**SECTION 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.
- Appropriate engineering controls.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance (physical state, color, etc.);
- Odor;
- Odor threshold;
- pH;
- Melting point/freezing point;
- Initial boiling point and boiling range;
- Flash point;
- Evaporation rate;
- Flammability (solid, gas);
- Upper/lower flammability or explosive limits;
- Vapor pressure;
- Vapor density;
- Relative density;
- Solubility(ies);
- Partition coefficient: n-octanol/water;
- Auto-ignition temperature;
- Decomposition temperature;
- Viscosity.

**SECTION 10: STABILITY AND REACTIVITY**

- Reactivity;
- Chemical stability;
- Possibility of hazardous reactions;
- Conditions to avoid (e.g., static discharge, shock, or vibration);
- Incompatible materials;
- Hazardous decomposition products.

**SECTION 11: TOXICOLOGICAL INFORMATION**

Description of the various toxicological (health) effects and the available data used to identify those effects, including:

- Information on the likely routes of exposure (inhalation, ingestion, skin and eye contact);
- Symptoms related to the physical, chemical and toxicological characteristics;
- Delayed and immediate effects and also chronic effects from short- and long-term exposure;
- Numerical measures of toxicity (such as acute toxicity estimates).
- Whether the hazardous chemical is listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest editions), or by OSHA.

**SECTION 12: ECOLOGICAL INFORMATION (*NON-MANDATORY*)**

- Ecotoxicity (aquatic and terrestrial, where available);
- Persistence and degradability;
- Bioaccumulative potential;
- Mobility in soil;

**SECTION 13: DISPOSAL CONSIDERATIONS (*NON-MANDATORY*)**

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging.

**SECTION 14: TRANSPORT INFORMATION (*NON-MANDATORY*)**

- UN number;
- UN proper shipping name;
- Transport hazard class(es);
- Packing group, if applicable;
- Environmental hazards (e.g., Marine pollutant (Yes/No));
- Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code);
- Special precautions, which a user needs to be aware of, or needs to comply with, in connection with transport or conveyance either within or outside their premises.

**SECTION 15: REGULATORY INFORMATION (*NON-MANDATORY*)**

Safety, health and environmental regulations specific for the product in question.

**SECTION 16: OTHER INFORMATION**

Other information, including date of preparation or last revision.

- The date of preparation of the SDS or the last change to it.

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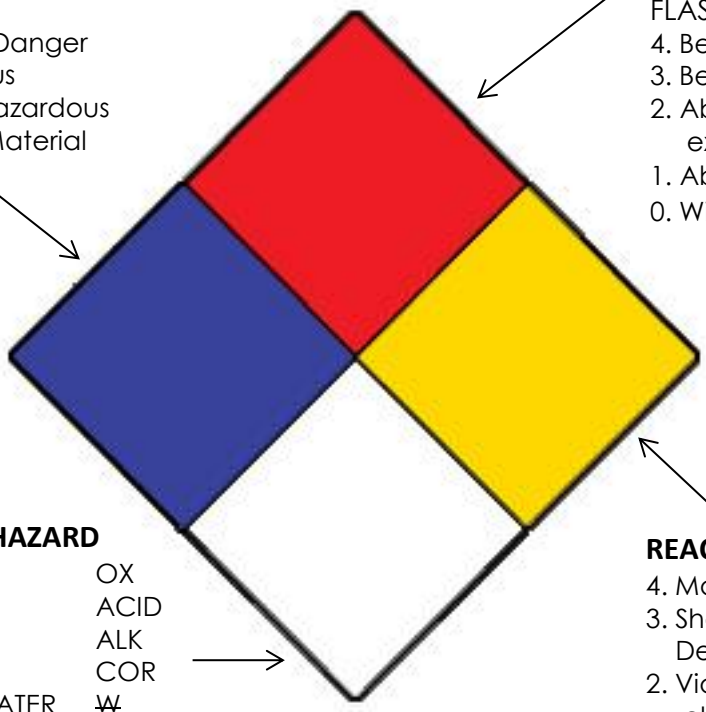
# SDS EXPLANATION GUIDE



**HEALTH HAZARD**
4. Deadly
3. Extreme Danger
2. Hazardous
1. Slightly Hazardous
0. Normal Material

**FIRE HAZARD**
FLASH POINTS
4. Below 73° F
3. Below 100° F
2. Above 100° F. Not exceeding 200° F
1. Above 200°F
0. Will not burn

**SPECIFIC HAZARD**

| | |
|---|---|
| Oxidizer | OX |
| Acid | ACID |
| Alkali | ALK |
| Corrosive | COR |
| Use NO WATER | W |
| Radioactive | ☢ |

**REACTIVITY**
4. May Detonate
3. Shock & Heat may Detonate
2. Violent chemical change
1. Unstable if heated
0. Stable

# NFPA Rating Explanation Guide

| RATING NUMBER | HEALTH HAZARD | FLAMMABILITY HAZARD | INSTABILITY HAZARD |
|---|---|---|---|
| 4 | Can be lethal | Will vaporize and readily burn at normal temperatures | May explode at normal temperatures and pressures |
| 3 | Can cause serious or permanent injury | Can be ignited under almost all ambient temperatures | May explode at high temperature or shock |
| 2 | Can cause temporary incapacitation or residual injury | Must be heater or high ambient temperature to burn | Violent chemical change at high temperatures or pressures |
| 1 | Can cause significant irritation | Must be preheated before ignition can occur | Normally stable. High temperatures make unstable |
| 0 | No hazard | Will not burn | Stable |

| RATING SYMBOL | SPECIAL HAZARD |
|---|---|
| ALK | Alkaline |
| ACID | Acidic |
| COR | Corrosive |
| OX | Oxidizing |
| | Radioactive |
| W | Reacts violently or explosively with water |
| W OX | Reacts violently or explosively with water and oxidizing |

# SAFETY DATA SHEET

Betco Brite MSP

## Section 1. Identification

**GHS product identifier** : Betco Brite MSP

**Other means of identification** : Not available.

**Product type** : Liquid.

**Relevant identified uses of the substance or mixture and uses advised against**

Not applicable.

**Supplier's details** : Betco Corporation
400 Van Camp Road
Toledo, Ohio 43402
www.betco.com
888-462-3826

**Emergency telephone number (with hours of operation)** : Chemtrec (800) 424-9300 24 hour

## Section 2. Hazards identification

**OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**Classification of the substance or mixture** : Not classified.

**GHS label elements**

**Signal word** : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements**

**Prevention** : Not applicable.

**Response** : Not applicable.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Other means of identification** : Not available.

**CAS number/other identifiers**

**CAS number** : Not applicable.

**Product code** : 155

| Ingredient name | % | CAS number |
|---|---|---|
| Terpenes and Terpenoids, sweet orange-oil | ≥0.1 - <0.3 | 68647-72-3 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

# Section 3. Composition/information on ingredients

**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.**

**Occupational exposure limits, if available, are listed in Section 8.**

# Section 4. First aid measures

## Description of necessary first aid measures

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

## Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Eye contact** : No specific data.

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

## Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

**See toxicological information (Section 11)**

# Section 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** : No specific data.

# Section 5. Fire-fighting measures

**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.

# Section 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. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized 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. 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. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

## Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8).

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**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. 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.

# Section 8. Exposure controls/personal protection

## Control parameters

### Occupational exposure limits

None.

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

# Section 8. Exposure controls/personal protection

**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: safety glasses with side-shields. Recommended: safety glasses with side-shields

**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.

**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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

**Appearance**

**Physical state** : Liquid.

**Color** : Off-white.

**Odor** : Lemon-like.

**Odor threshold** : Not available.

**pH** : 7 to 8.5

**Melting point** : Not available.

**Boiling point** : Not available.

**Flash point** : Closed cup: Not applicable. [Product does not sustain combustion.]

**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** : 1.02

**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** : Not available.

# Section 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.

**Conditions to avoid** : No specific data.

**Incompatible materials** : No specific data.

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

## Information on toxicological effects

### Acute toxicity

Not available.

### Irritation/Corrosion

Not available.

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### 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** : Routes of entry anticipated: Dermal.
Routes of entry not anticipated: Oral, Inhalation.

## Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

# Section 11. Toxicological information

**Eye contact** : No specific data.

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

## 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

Not available.

# Section 12. Ecological information

## Toxicity

Not available.

## Persistence and degradability

Not available.

## Bioaccumulative potential

Not available.

## Mobility in soil

**Soil/water partition coefficient ($K_{OC}$)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

| | DOT Classification | TDG Classification | Mexico Classification | ADR/RID | IMDG | IATA |
|---|---|---|---|---|---|---|
| **UN number** | Not regulated. | Not regulated. | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| **UN proper shipping name** | - | - | - | - | - | - |
| **Transport hazard class(es)** | - | - | - | - | - | - |
| **Packing group** | - | - | - | - | - | - |
| **Environmental hazards** | No. | No. | No. | No. | No. | No. |
| **Additional information** | - | - | - | - | - | - |

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : **TSCA 8(a) PAIR**: Siloxanes and Silicones, di-Me; Nonylphenol, branched, ethoxylated; citronellal

**TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

Not determined.

**Clean Water Act (CWA) 307**: diethyl phthalate

**Clean Water Act (CWA) 311**: Formaldehyde, solution; sodium hydroxide

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

# Section 15. Regulatory information

**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) |
| formaldehyde | <0.1 | Yes. | 500 | 73.9 | 100 | 14.8 |

**SARA 304 RQ** : 2666666.7 lbs / 1210666.7 kg [313553.2 gal / 1186928.1 L]

## SARA 311/312

**Classification** : Not applicable.

### Composition/information on ingredients

| Name | % | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|---|---|---|---|---|---|---|
| Terpenes and Terpenoids, sweet orange-oil | ≥0.1 - <0.3 | Yes. | No. | No. | Yes. | No. |

## State regulations

**Massachusetts** : None of the components are listed.

**New York** : None of the components are listed.

**New Jersey** : None of the components are listed.

**Pennsylvania** : None of the components are listed.

### California Prop. 65

**WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

| Ingredient name | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|---|---|---|---|---|
| 7-methyl-3-methyleneocta-1,6-diene<br>Formaldehyde, solution | Yes.<br>Yes. | No.<br>No. | No.<br>Yes. | No.<br>No. |

## International regulations

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### Montreal Protocol (Annexes A, B, C, E)

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

## International lists

### National inventory

**Australia** : Not determined.

**Canada** : Not determined.

# Section 15. Regulatory information

**China** : Not determined.

**Europe** : Not determined.

**Japan** : **Japan inventory (ENCS)**: Not determined.
**Japan inventory (ISHL)**: Not determined.

**Malaysia** : Not determined.

**New Zealand** : Not determined.

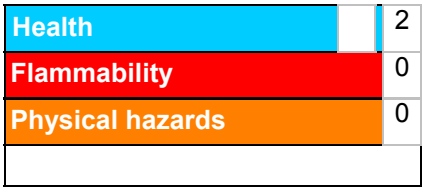
**Philippines** : Not determined.

**Republic of Korea** : Not determined.

**Taiwan** : Not determined.

# Section 16. Other information

## Hazardous Material Information System (U.S.A.)




**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 SDSs 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.)


**Reprinted with permission from NFPA 704-2001, Identification of the Hazards of Materials for Emergency Response Copyright ©1997, National Fire Protection Association, Quincy, MA 02269. This reprinted material is not the complete and official position of the National Fire Protection Association, on the referenced subject which is represented only by the standard in its entirety.**

**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.**

## Procedure used to derive the classification

| Classification | Justification |
|---|---|
| Not classified. | |

## History

**Date of printing** : 4/21/2017

**Date of issue/Date of revision** : 2/8/2017

**Date of previous issue** : 3/31/2015

**Version** : 1.01

# Section 16. Other information

**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 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

**References** : Not available.

**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.**

# SAFETY DATA SHEET

## 1 - PRODUCT AND COMPANY IDENTIFICATION

**SDS ID: 520514**

**Product Name** **CLR Calcium, Lime & Rust Remover**

**Product Use** Aqueous Acidic Cleaner for Removal of Calcium, Lime, and Rust from Hard Surfaces Retail Package: [28 fl. oz., 42 fl. oz., and 128 fl. oz. (one gallon)}

**CAS#** Proprietary Mixture

**Restrictions on Use** Incompatible with strong oxidizing agents, metals (except stainless steel, chrome), acids, bases, and bleach**.**


**Manufacturer:** **Jelmar, LLC**
**Address:** 5550 W. Touhy Ave.
Skokie, IL 60077

**Emergency Phone Number:** 1(800) 323-5497 (USA)
Monday – Friday 8:30 A.M. – 4:30 P.M. CST
**Emergency 24 hour Contact:** Chemtrec 1(800) 424-9300


## 2 – HAZARDS IDENTIFICATION

**Emergency Overview: WARNING:** EYE IRRITATANT. GHS Toxicity Category 2A Causes eye irritation and possible SKIN IRRITATANT GHS Category 3 – on sensitive skin.DO NOT get in eyes, on skin or clothing. DO NOT mix with bleach or other household chemicals as harmful fumes may result. DO NOT ingest. DO NOT breathe vapor or mist. Use in well ventilated areas. Keep container closed when not in use.

**KEEP OUT OF REACH OF CHILDREN**

**Potential Short Term Health Effects**

**Routes of Exposure** Eyes, Skin, Inhalation, Ingestion.

**Eyes** Irritant
Avoid eye contact
Effects may vary depending on length of exposure, solution concentration

**Skin** Irritant. Prolonged contact may cause dermatitis, and itching.

**Inhalation** No adverse effects expected under typical use conditions.

**Ingestion** Oral burns, vomiting, and gastrointestinal disturbance.

**Target organs** Eyes. Skin.

## SECTION 3 - COMPOSITION /INFORMATION ON INGREDIENTS

| Component | CAS# | OSHA HAZARD | % by Weight |
|---|---|---|---|
| 1. Lactic Acid | 79-33-4 | YES | 12.00-18.00 |
| 2. Gluconic Acid | 526-95-4 | YES | 2.50-3.75 |
| 3. Lauramine Oxide | 1643-20-5 | YES | 1.50-3.25 |

## SECTION 4 – FIRST AID MEASURES

**EYE CONTACT:** In case of eye contact, immediately rinse eye thoroughly with plenty of water. Remove contact lenses, and continue rinsing for at least 15 minutes. If irritation persists, get medical attention.
**SKIN CONTACT:** Can be irritating to skin, prolonged contact can be more severe, no adverse effects during normal usage. In case of skin contact, rinse area for at least 15 minutes. Remove contaminated clothing and shoes, wash thoroughly before reuse. If irritation persists get medical attention.
**INHALATION:** Not a significant route of exposure. Remove to fresh air. If breathing is difficult, GET MEDICAL ATTENTION IMMEDIATELY.
**INGESTION:** DO NOT induce vomiting. If fully conscious, drink 16 ounces of water. CALL A PHYSCIAN OR POISON CONTROL CENTER IMMEDIATELY. NEVER give an unconscious person anything to ingest.

## SECTION 5 – FIRE FIGHTING MEASURES

**FLAMMABILTY:** Not flammable
**FLASH POINT:** None; Method: ASTM D-56
**EXPLOSIVE LIMITS IN AIR:** Not available
**EXTINGUISHING MEDIA:** Not flammable. Use appropriate media for area. Use water spray, dry chemical, alcohol foam or carbon dioxide.
**FIRE FIGHTING METHODS:** Evacuate area of personnel. Wear protective NIOSH-approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products. Use water spray to cool fire-exposed containers. Run-off of large quantities of product from fire control may cause pollution. Contact appropriate agencies.
**HAZARDOUS COMBUSTION PRODUCTS:** Carbon Monoxide. Thermal decomposition can lead to irritating gases and vapors.
**FIRE AND EXPLOSION HAZARDS:** None known.

## SECTION 6 – ACCIDENTAL RELEASES MEASURES

**Steps to be taken in Case Material is Released or Spilled:** Avoid contact with skin and eyes
**Small Spill:** No special clean-up procedure is necessary for small (less than 1 gallon) spills. Flush spill area with water. Wear rubber gloves.
**Large Spill:** Use personal protection recommended in Section 8. Isolate area, and deny entry to unnecessary and unprotected personnel. Dam spill, and absorb with earth, sand or similar material. Place in non-leaking containers. Dispose of collected material according to local, state, and federal regulations. Flush residue with large amount of water. Avoid direct discharge to sewers and surface waters.

## SECTION 7- HANDLING AND STORAGE

**STORAGE:** Store in cool, well-ventilated area, away from heat. Keep containers tightly closed. Avoid contact with combustible materials, wood, and organic materials. Store in original container in a secure area away from children and pets.
**HANDLING:** Avoid contact with eyes, skin or clothing. May be harmful or if swallowed. Use with adequate ventilation. Avoid breathing vapors or mist. Do not eat, drink, or smoke in work area. Wash hand thoroughly after use. Consumer size containers (28, and 42 fluid ounces and gallon containers), should be rinsed and recycled. DO NOT PRESSURIZE, CUT OR EXPOSE THESE CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY MAY EXPLODE AND CAUSE INJURY.
**DO NOT MIX WITH BLEACH, OR ANY OTHER PRODUCTS AS TOXIC FUMES MAY RESULT. KEEP OUT OF REACH OF CHILDREN.**

## SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

**VENTILATION REQUIREMENT:** Avoid prolonged breathing mists or dusts of this product. Use with adequate ventilation. Do not use in closed or confined spaces.
**RESPIRATORY PROTECTION:** None required during normal household use.
**EYE PROTECTION:** Not required during normal household usage. Do not wear contact lenses. Emergency responders should wear full eye and face protection.
**SKIN PROTECTION:** Rubber gloves with protective cuff. Emergency responders should wear impermeable gloves.
**OTHER PROTECTION:** Emergency responders should wear chemical type (impermeable) protective clothing and footwear where direct contact with chemicals in this product is possible.
**WORK/HYGIENIC PRACTICES:** Wash thoroughly with soap and water after use or handling.

| **EXPOSURE GUIDELINES:** | OSHA | | ACGIH | |
|---|---|---|---|---|
| **COMPONENT** | **PEL** | **STEL/C** | **TWA** | **STEL/C** |
| 1. Lactic Acid | N.E | N.E. | N.E. | N.E. |
| 2. Gluconic Acid | N.E. | N.E. | N.E. | N.E. |
| 3. Lauramine Oxide | N.E. | N.E. | N.E. | N.E. |

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Crystal clear, lime green liquid
**Odor:** Slightly acidic
**Boiling point:** 99ºC / 210º F
**Vapor Pressure:** N.D.
**Freezing Point:** N.D
**Melting Point:** N.D.
**Vapor Density (mm Hg):** N.D
**pH: @20ºC** 2.10-2.30

**Solubility in Water:** 100%
**Specific Gravity @20ºC:** 1.04 – 1.06
**Percent Volatiles:** ~77.2% (Calculated)
**Evaporation Rate:** N.D. (nBuAc=1)
**Total VOC (wt. %):** 0% - does not include any (**Volatile Organic Compounds/ California Air Resource Board**) CARB applicable exemptions

## SECTION 10 – STABILITY AND REACTIVITY

**STABILITY:** Stable under normal conditions.
**CONDITIONS TO AVOID:** Avoid elevated temperatures.
**INCOMPATIBLE MATERIALS:** Strong oxidizing agents, metals (except stainless steel and chrome), acids, and bases.
**HAZARDOUS DECOMPOSITION PRODUCTS:** Thermal decomposition can lead to release of irritating gases, vapors and carbon oxides.
**POSSIBILITY OF HAZARDOUS REACTIONS:** No data.

## SECTION 11 – TOXICOLOGICAL INFORMATION

**$LD_{50}$ ACUTE EYE IRRITATION:** OPPTS 8740.2400 Toxicity - Irritant; GHS Toxicity Category 2A - Irritant
**$LD_{50}$ ACUTE DERMAL IRRATION - RABBITS:** OPPTS 870.2500 Toxicity Category IV – Mild or Slight Skin Irritation; GHS Category 3 – Mild Skin Irritation.
**$LD_{50}$ACUTE ORAL TOXICITY – RATS:** OPPTS 870.1100 Toxicity Category IV >5,000 mg/kg; GHS Category 5 >5,000 mg/kg - Not Toxic
**$LD_{50}$ACUTE DERMAL TOXICITY - RABBITTS:** OPPTS 870-1200 Toxicity Category IV >5 g/kg; GHS Category 5 >5,000 mg/kg – Not Toxic
**$LD_{50}$ ACUTE INHALATION TOXICITY – RATS:** OPPTS 870.1300 Toxicity Category IV - Not toxic by inhalation; GHS Category 5 - Not toxic by inhalation

## SECTION 12- ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION:

**LACTIC ACID:**

**Persistence / degradability**

Readily biodegradable, according to appropriate OECD test.
Biochemical oxygen demand (BOD)5 = 0.45 mg O2 /mg
Biochemical oxygen demand (BOD)20= 0.60 mg O2/mg
Chemical oxygen demand (COD) =0.90 mg O2 /mg

**Bioaccumulation**

None.

**Ecotoxicity**

EC50/48h/Daphnia = 240mg/l LC50/48h/Fish = 320 mg/l
EC50/Algae = 3500 mg/l(neutral) No data available.

**GLUCONIC ACID**:

Fish 96-h LC50 > 1000.0 mg/L
Daphnid 48-h LC50 > 1000.0 mg/L
Green algal 96-h EC50 > 1000.0 mg/L
Fish Chronic Value (ChV) > 100.0 mg/L
Daphnid ChV > 100.0 mg/L
Algal ChV > 100.0 mg/L
Biological Fate: No bioconcentration in aquatic organisms and rapid biodegradation/disappearance in the environment, i.e. 40% in 5 days.

**LAURAMINE OXIDE:** Acute Aquatic Toxicity

Reviewed Category ≤1 mg/L
Algae $IC_{50}$ 0.01 mg/L
Invertebrate $EC_{50}$ 1.01 mg/L
Fish $LC_{50}$ 2.6 mg/L
Biodegradation: % degraded in 28 days ≥60% ThOD/ThCO2 (≥70% DOC)

**DIPROPYLENE GLYCOLL n-BUTYL ETHER:**

**Movement & Partitioning**

Bioconcentration potential is low (BCF less than 100 or log Pow less than 3). Potential for mobility in soil is very high (Koc between 0 and 50).
**Henry's Law Constant (H):** 3.78E-07 atm*m3/mole; 25 °C Estimated.
**Partition coefficient, n-octanol/water (log Pow):** 1.13 Estimated.
**Partition coefficient, soil organic carbon/water (Koc):** 10 - 21 Estimated.
**Persistence and Degradability**

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Material is ultimately biodegradable (reaches > 70% mineralization in OECD test(s) for inherent biodegradability).

**Indirect Photodegradation with OH Radicals**

**Rate Constant Atmospheric Half-life Method**

4.97E-11 cm3/s 2.6 h Estimated.

**OECD Biodegradation Tests:**

**Biodegradation Exposure Time Method**

91 % 28 d OECD 301E Test

96 % 28 d OECD 302B Test

**Theoretical Oxygen Demand:** 2.35 mg/mg

**ECOTOXICITY**

Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

**Fish Acute & Prolonged Toxicity**

LC50, guppy (Poecilia reticulata), static, 96 h: 841 mg/l

**Aquatic Invertebrate Acute Toxicity**

LC50, water flea Daphnia magna, static, 48 h, immobilization: > 1,000 mg/l

**CLR CHEMICAL FATE INFORMATION**: 28-day biodegradation. The matter is readily biodegradable. OECD 301D

## SECTION 13 – DISPOSAL CONSIDERATIONS

**DISPOSAL METHOD: Rinse empty bottles and recycle.** Dispose of unused product in a permitted hazardous waste management facility following all local, state, and federal regulations.

DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION.
Follow label warnings, since containers may retain some reside of the product.
Processing, use or contamination of this product may change the waste management options. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. State and local disposal regulations may differ from federal disposal regulations.

## SECTION 14 - TRANSPORTATION INFORMATION

**DOT (Department of Transportation Proper Shipping Name):** Not regulated by DOT.
**Identification Number:** N.A.
**Packaging Group:** N.A.
**UN Number:** N.A.
**TDG Classification:** Not Regulated
**IMDG Classification:** Not Regulated
**IATA Classification:** Passenger – Not Regulated
**WHIMS (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 CPR.

# SAFETY DATA SHEET

## SECTION 15 – REGULATORY INFORMATION

**FEDERAL REGULATIONS:**

TSCA INVENTORY STATUS: All components of this product are listed on the TSCA Inventory or are exempt from TSCA Inventory requirements.

**SARA TITTLE III SECTION 311/312 CATEGORY:**

| | |
|---|---|
| IMMEDIATE (ACUTE) HEALTH HAZARARD: | YES |
| DELAYED (CHRONIC) HEALTH HAZARD: | NO |
| FIRE HAZARD: | NO |
| SUDDEN RELEASE OF PRESSURE: | NO |
| REACTIVE HAZARD: | NO |

**SARA SECTIONS 302/304/313/HAP:** NO

**INTERNATIONAL CHEMICAL INVENTORY STATUS:**

| | |
|---|---|
| EUROPEAN UNION (EINECS) | YES |
| JAPAN (METI) | YES |
| AUSTRALIA (ACIS) | YES |
| KOREA (KECL) | YES |
| CANADA (DSL) | YES |
| CANADA (NDSL) | NO |
| PHILIPPINES | YES |

**STATES RIGHT TO KNOW:** California, New Jersey, Pennsylvania, Minnesota, Massachusetts, and Wisconsin. Complies with listed States Right to Know Act.

The following statement is made in order to comply with the California State Drinking Water Act. California Proposition 65: This product does not contain any chemicals known to the State of California to cause cancer and/or to cause birth defects and other reproductive harm.

## SECTION 16 – OTHER INFORMATION

**Precautions to be taken in Handling and Storing:** Avoid exposure to excess heat, and prevent from freezing.

**Other Precautions:** None required.

**MSDS ABBREVIATIONS:**

| | |
|---|---|
| N. A.: | Not Applicable |
| HAP: | Hazardous Air Pollutant |
| VOC: | Volatile Organic Compound |
| N. D.: | Not Determined |
| N.E.: | Not Established |
| C: | Ceiling Limit |
| HAP: | Hazardous Air Pollutant |
| VOC: | Volatile Organic Compound |

**Revision: GHS Format – Additional information** **R. A. Gaudreault**

# SAFETY DATA SHEET

## ENDURE MILD MOISTURIZING HAND SOAP

## Section: 1. PRODUCT AND COMPANY IDENTIFICATION

| | | |
|---|---|---|
| Product name | : | ENDURE MILD MOISTURIZING HAND SOAP |
| Other means of identification | : | Not applicable. |
| Recommended use | : | Skin-care |
| Restrictions on use | : | Reserved for industrial and professional use. |
| Product dilution information | : | Product is sold ready to use. |
| Company | : | Ecolab Co.<br>5105 Tomken Road<br>Mississauga, Ontario Canada L4W 2X5<br>1-800-352-5326 |
| Emergency health information | : | 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US) |
| Issuing date | : | 03/18/2016 |

## Section: 2. HAZARDS IDENTIFICATION

**GHS Classification**

Eye irritation : Category 2B

**GHS Label element**

Signal Word : Warning

Hazard Statements : Causes eye irritation.

Precautionary Statements : **Prevention:**
Wash skin 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.

**Other hazards** : None known.

## Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

| Chemical Name | CAS-No. | Concentration: (%) |
|---|---|---|
| sulfuric acid, mono-c10-16-alkyl esters, sodium salts | 68585-47-7 | 1 - 5 |
| d-glucopyranose, oligomeric, c10-16-alkyl glycosides | 110615-47-9 | 1 - 5 |
| sodium chloride | 7647-14-5 | 1 - 5 |

## Section: 4. FIRST AID MEASURES

In case of eye contact : Rinse with water.

In case of skin contact : Rinse with water.

| | | |
|---|---|---|
| If swallowed | : | Rinse mouth. Get medical attention if symptoms occur. |
| If inhaled | : | Get medical attention if symptoms occur. |
| Protection of first-aiders | : | No special precautions are necessary for first aid responders. |
| Notes to physician | : | Treat symptomatically. |
| Most important symptoms and effects, both acute and delayed | : | See Section 11 for more detailed information on health effects and symptoms. |

## Section: 5. FIREFIGHTING MEASURES

| | | |
|---|---|---|
| Suitable extinguishing media | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : | None known. |
| Specific hazards during firefighting | : | Not flammable or combustible. |
| Hazardous combustion products | : | Decomposition products may include the following materials:<br>Carbon oxides<br>nitrogen oxides (NOx)<br>Sulphur oxides<br>Oxides of phosphorus |
| Special protective equipment for firefighters | : | Use personal protective equipment. |
| Specific extinguishing methods | : | Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes. |
| Risk of explosion. | : | Not available. |

## Section: 6. ACCIDENTAL RELEASE MEASURES

| | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Refer to protective measures listed in sections 7 and 8. |
| Environmental precautions | : | Do not allow contact with soil, surface or ground water. |
| Methods and materials for containment and cleaning up | : | Stop leak if safe to do so. Contain spillage, and then collect 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). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. |

## Section: 7. HANDLING AND STORAGE

| | | |
|---|---|---|
| Advice on safe handling | : | No special handling advice required. |

| | | |
|---|---|---|
| Conditions for safe storage | : | Keep out of reach of children. Store in suitable labeled containers. |
| Storage temperature | : | 5 °C to 45 °C |

## Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

| | | |
|---|---|---|
| Engineering measures | : | Good general ventilation should be sufficient to control worker exposure to airborne contaminants. |

**Personal protective equipment**

| | | |
|---|---|---|
| Eye protection | : | No special protective equipment required. |
| Hand protection | : | No special protective equipment required. |
| Skin protection | : | No special protective equipment required. |
| Respiratory protection | : | No personal respiratory protective equipment normally required. |
| Hygiene measures | : | No specific measures identified. |

## Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|---|---|
| Appearance | : | liquid |
| Colour | : | white |
| Odour | : | sweet |
| pH | : | 6.0 - 7.0, 100 % |
| Flash point | : | Not applicable. |
| Odour Threshold | : | no data available |
| Melting point/freezing point | : | no data available |
| Initial boiling point and boiling range | : | no data available |
| Evaporation rate | : | no data available |
| Flammability (solid, gas) | : | no data available |
| Upper explosion limit | : | no data available |
| Lower explosion limit | : | no data available |
| Vapour pressure | : | no data available |
| Relative vapour density | : | no data available |
| Relative density | : | 1.025 |
| Water solubility | : | no data available |
| Solubility in other solvents | : | no data available |
| Partition coefficient: n-octanol/water | : | no data available |
| Auto-ignition temperature | : | no data available |

| | | |
|---|---|---|
| Thermal decomposition | : | no data available |
| Viscosity, kinematic | : | no data available |
| Explosive properties | : | no data available |
| Oxidizing properties | : | no data available |
| Molecular weight | : | no data available |
| VOC | : | no data available |

## Section: 10. STABILITY AND REACTIVITY

| | | |
|---|---|---|
| Chemical stability | : | Stable under normal conditions. |
| Possibility of hazardous reactions | : | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | : | None known. |
| Incompatible materials | : | None known. |
| Hazardous decomposition products | : | Decomposition products may include the following materials:<br>Carbon oxides<br>nitrogen oxides (NOx)<br>Sulphur oxides<br>Oxides of phosphorus |

## Section: 11. TOXICOLOGICAL INFORMATION

| | | |
|---|---|---|
| Information on likely routes of exposure | : | Inhalation, Eye contact, Skin contact |

**Potential Health Effects**

| | | |
|---|---|---|
| Eyes | : | Causes eye irritation. |
| Skin | : | Health injuries are not known or expected under normal use. |
| Ingestion | : | Health injuries are not known or expected under normal use. |
| Inhalation | : | Health injuries are not known or expected under normal use. |
| Chronic Exposure | : | Health injuries are not known or expected under normal use. |

**Experience with human exposure**

| | | |
|---|---|---|
| Eye contact | : | Redness, Irritation |
| Skin contact | : | No symptoms known or expected. |
| Ingestion | : | No symptoms known or expected. |
| Inhalation | : | No symptoms known or expected. |

**Toxicity**

**Product**

| | | |
|---|---|---|
| Acute oral toxicity | : | Acute toxicity estimate : > 5,000 mg/kg |

| | | |
|---|---|---|
| Acute inhalation toxicity | : | no data available |
| Acute dermal toxicity | : | Acute toxicity estimate : > 5,000 mg/kg |
| Skin corrosion/irritation | : | no data available |
| Serious eye damage/eye irritation | : | Mild eye irritation |
| Respiratory or skin sensitization | : | no data available |
| Carcinogenicity | : | no data available |
| Reproductive effects | : | no data available |
| Germ cell mutagenicity | : | no data available |
| Teratogenicity | : | no data available |
| STOT - single exposure | : | no data available |
| STOT - repeated exposure | : | no data available |
| Aspiration toxicity | : | no data available |

## Section: 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

| | | |
|---|---|---|
| Environmental Effects | : | Harmful to aquatic life. |

**Product**

| | | |
|---|---|---|
| Toxicity to fish | : | no data available |
| Toxicity to daphnia and other aquatic invertebrates | : | no data available |
| Toxicity to algae | : | no data available |

**Components**

| | | |
|---|---|---|
| Toxicity to fish | : | d-glucopyranose, oligomeric, c10-16-alkyl glycosides<br>96 h LC50 Fish: 5 mg/l<br><br>sodium chloride<br>96 h LC50 Fish: 5,840 mg/l |

**Components**

| | | |
|---|---|---|
| Toxicity to daphnia and other aquatic invertebrates | : | sulfuric acid, mono-c10-16-alkyl esters, sodium salts<br>48 h EC50 Daphnia: 1.37 mg/l |

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**Other adverse effects**

no data available

## Section: 13. DISPOSAL CONSIDERATIONS

| | | |
|---|---|---|
| Disposal methods | : | The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility. |
| Disposal considerations | : | Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations. |

## Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

**Land transport (TDG)**
Not dangerous goods

**Sea transport (IMDG/IMO)**
Not dangerous goods

## Section: 15. REGULATORY INFORMATION

This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR.

**Canada Cosmetics** : Notified cosmetic under Food & Drugs Act

**NPRI Components** : Diethyl Phthalate

**The components of this product are reported in the following inventories:**

**Switzerland. New notified substances and declared preparations** :
not determined

**United States TSCA Inventory** :
On TSCA Inventory

**Canadian Domestic Substances List (DSL)** :
This product contains one or several components listed in the Canadian NDSL.

**Australia. Industrial Chemical (Notification and Assessment) Act** :
On the inventory, or in compliance with the inventory

**New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand** :
On the inventory, or in compliance with the inventory

**Japan. ENCS - Existing and New Chemical Substances Inventory** :
not determined

**Japan. ISHL - Inventory of Chemical Substances (METI)** :
not determined

**Korea. Korean Existing Chemicals Inventory (KECI)** :

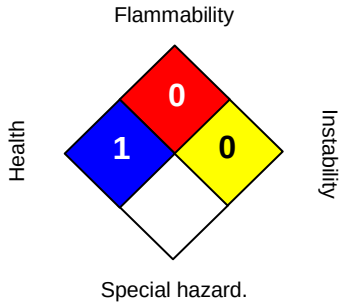
On the inventory, or in compliance with the inventory

**Philippines Inventory of Chemicals and Chemical Substances (PICCS)** :
On the inventory, or in compliance with the inventory

**China Inventory of Existing Chemical Substances** :
On the inventory, or in compliance with the inventory

## Section: 16. OTHER INFORMATION

**NFPA:**




**HMIS III:**

| | |
|---|---|
| HEALTH | 1 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

| | | |
|---|---|---|
| Issuing date | : | 03/18/2016 |
| version | : | 1.1 |
| Prepared by | : | Regulatory Affairs 1-800-352-5326 |

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

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.

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**Safety Data Sheet**
Lights Out

## SECTION I - IDENTIFICATION

**PRODUCT NAME:** Lights Out
**PRODUCT CODE:** 4650
**PRODUCT USE:** Bed bug killer
**COMPANY NAME:** QuestSpecialty Corporation
**COMPANY ADDRESS:** PO Box 624 Brenham, TX 77834
**COMPANY PHONE:** 1-800-231-0454
**EMERGENCY PHONE: 800-255-3924**

## SECTION II – HAZARDS IDENTIFICATION

**CLASSIFICATION:** Does not present a hazard according to OSHA (29CFR 1910.1200)
**HAZARD STATEMENT(S):** None Known
This product contains the following percentage of chemicals of unknown toxicity**:** 0%
**PRECAUTIONARY STATEMENTS:** N/A
**SYMBOL:** N/A
**HAZARDS NOT OTHERWISE CLASSIFIED:** N/A

## SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

| HAZARDOUS INGREDIENT | CAS NUMBER | PERCENT |
|---|---|---|
| Does not contain any hazardous ingredients at or above reportable levels as defined by OSHA (29CFR 1910.1200) | N/A | N/A |

## SECTION IV - FIRST AID MEASURES

**EYES:** Remove contact lenses. Flush with water for at least 15 minutes. See a physician if irritation persists.
**INGESTION**: Rinse mouth with water. Do not induce vomiting unless directed by medical authority. Seek medical attention if irritation persists.
**INHALATION**: Move to fresh air. If breathing is difficult, administer oxygen. If not breathing administer artificial respiration or at any sign of loss of consciousness seek immediate medical attention.
**SKIN:** Wash thoroughly with soap and water for 15 minutes. Remove contaminated clothing and shoes immediately. Seek medical attention if irritation persists.
**ACUTE HEALTH HAZARDS:** None Known
**CHRONIC HEALTH HAZARDS:** None
**NOTE TO PHYSICIAN:** There is no specific treatment regimen. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

## SECTION V – FIRE-FIGHTING MEASURES

**EXTINGUISHING MEDIA:** Use appropriate media for surrounding fire.
**UNSUITABLE EXTINGUISHING MEDIA:** N/A
**SPECIAL FIRE FIGHTING PROCEDURES:** Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Avoid contact with skin and breathing smoke, fumes, and decomposition products. Cool fire exposed containers with water fog to prevent bursting.
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** N/A
**HAZARDOUS COMBUSTION PRODUCTS:** N/A

## SECTION VI – ACCIDENTAL RELEASE MEASURES

**PERSONAL PROTECTIVE EQUIPMENT:** Refer to section VIII for proper Personal Protective Equipment.
**SPILL:** Absorb spill with non-combustible material such as vermiculite, sand or earth.
**WASTE DISPOSAL:** Dispose of in accordance with federal, state, and local regulations. Do not reuse container, triple rinse container and recycle or place in trash collection. Drums and pails should be offered for recycling.

**RCRA STATUS:** Waste likely considered Non-hazardous under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

## SECTION VII – HANDLING AND STORAGE

**HANDLING AND STORAGE:** Store in a cool, dry area. Keep container tightly closed when not in use. Use good industrial practices, handle with care and avoid contact.
**OTHER PRECAUTIONS:** Keep out of the reach of children.
**INCOMPATIBILITY:** Strong acids, strong alkalis, halogenated compounds, brass, aluminum, bronze, copper, iron, zinc, lead tin.

## SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

| HAZARDOUS INGREDIENT | OSHA PEL | ACGIH TLV |
|---|---|---|
| Does not contain any hazardous ingredients at or above reportable levels as defined by OSHA (29CFR 1910.1200) | N/A | N/A |

**ENGINEERING CONTROLS / VENTILATION:** General ventilation adequate but local exhaust/ventilation preferred.
**RESPIRATORY PROTECTION:** Not required with normal use. Wear NIOSH/MSHA approved respiratory protection if exposure limits are exceeded.
**PERSONAL PROTECTIVE EQUIPMENT:** Safety glasses and chemical resistant gloves
**ADDITIONAL MEASURES:** Wash hands thoroughly after handling.

## SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Brown Turbid Liquid
**ODOR:** Cinnamon scent
**ODOR THRESHOLD:** N/D
**BOILING POINT:** > 212°F (100°C)
**FREEZING POINT:** < 32°F (0°C)
**FLAMMABILITY:** Not considered a flammable liquid by OSHA (29CFR 1910.1200)
**FLASH POINT:** N/D
**AUTOIGNITION TEMPERATURE:** N/D
**LOWER FLAMMABILITY LIMIT:** N/D
**UPPER FLAMMABILITY LIMIT:** N/D
**VAPOR PRESSURE (mm Hg):** 17.5 @ 77°F (25°C)
**VAPOR DENSITY (AIR=1):** 1
**EVAPORATION RATE:** < 1
**SPECIFIC GRAVITY (H2O=1):** 1.01 @ 77°F (25°C)
**pH:** 7.0
**SOLIDS (%):** N/D
**SOLUBILITY IN WATER:** 100%
**PARTITION COEFFICIENT: n-OCTANOL/WATER ($K_{OW}$):** N/D
**VOLATILITY INCLUDING WATER (%):** 96.1%
**VOLATILE ORGANIC COMPOUNDS (VOC):** 0%
**DIELECTRIC STRENGTH (Volts):** N/A
**DECOMPOSITION TEMPERATURE:** N/D
**VISCOSITY:** N/D

## SECTION X – STABILITY AND REACTIVITY DATA

**REACTIVITY:** None Known
**CHEMICAL STABILITY:** Stable
**CONDITIONS TO AVOID:** None known
**INCOMPATIBILITY:** Strong acids, strong alkalis, halogenated compounds, brass, aluminum, bronze, copper, iron, zinc, lead tin.
**HAZARDOUS DECOMPOSITION OR BY-PRODUCT:** None Known
**POSSIBLE HAZARDOUS REACTIONS:** Will not occur

## SECTION XI – TOXICOLOGICAL INFORMATION

**TOXICOLOGICAL INFORMATION:** Not Established
**ROUTES OF ENTRY:** Eyes, Ingestion, Inhalation, Skin
**EYES:** Causes irritation, redness, tearing, pain.
**INGESTION:** Causes gastrointestinal irritation.
**INHALATION:** May cause irritation to the respiratory tract.
**SKIN:** Causes irritation, dryness.
**MEDICAL CONDITION AGGRAVATED:** Pre-existing disorders of the skin, respiratory system, and eyes will be aggravated by over exposure.
**ACUTE HEALTH HAZARDS:** None Known
**CHRONIC HEALTH HAZARDS:** None
**CARCINOGENICITY: OSHA:** No **ACGIH:** No **NTP:** No **IARC:** No **OTHER:** No

## SECTION XII – ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION:** Not Established
**BIODEGRADABILITY:** This product is biodegradable.
**BIOACCUMULATION:** This product is not expected to bioaccumulate.
**SOIL MOBILITY:** This product is mobile in soil.
**OTHER ECOLOGICAL HAZARDS:** None Known

## SECTION XIII – DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL:** Dispose of in accordance with federal, state, and local regulations. Do not reuse container, triple rinse container and recycle or place in trash collection. Drums and pails should be offered for recycling.
**RCRA STATUS:** Waste likely considered Non-hazardous under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

## SECTION XIV - TRANSPORTATION INFORMATION

**PROPER SHIPPING NAME:** Cleaning Compound N.O.S., Non Regulated
**HAZARD CLASS/DIVISION:** None
**UN/NA NUMBER:** N/A
**PACKAGING GROUP:** None

**AIR SHIPMENT**
**PROPER SHIPPING NAME:** Cleaning Compound N.O.S., Non Regulated
**HAZARD CLASS/DIVISION:** None
**UN/NA NUMBER:** N/A

**SHIPPING BY WATER:**
**VESSEL (IMO/IMDG)**
**PROPER SHIPPING NAME:** Cleaning Compound N.O.S., Non Regulated
**HAZARD CLASS/DIVISION:** None
**UN/NA NUMBER:** N/A
**ENVIRONMENTAL HAZARDS WATER:** N/A

## SECTION XV - REGULATORY INFORMATION

**TSCA STATUS:** All Chemicals are listed or exempt.
**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT):** None
**SARA 311/312 HAZARD CATEGORIES:** None
**SARA 313 REPORTABLE INGREDIENTS:** None
**CLEAN WATER ACT:** None
**STATE REGULATIONS:** California Proposition 65: None
**INTERNATIONAL REGULATIONS:** All components are listed or exempted.

| | | | |
|---|---|---|---|
| **NFPA HEALTH:** | 1 | **HMIS HEALTH:** | 1 |
| **NFPA FLAMMABILITY:** | 0 | **HMIS FLAMMABILITY:** | 0 |
| **NFPA REACTIVITY:** | 0 | **HMIS REACTIVITY:** | 0 |
| **NFPA OTHER:** | N/A | **HMIS PROTECTION:** | A |

## SECTION XVI - ADDTIONAL INFORMATION

**PREPARATION BY:** Jonathon Jarvis
**DATE PREPARED:** 11/13/2013
**REVISION DATE:** 10/27/2014

N/A = Not Applicable; N/D = Not Determined

**DISCLAIMER:** To the best of our knowledge, information contained herein is accurate. However there is no assumption of liability 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 hazard which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this SDS. The user is responsible for full compliance.

# Safety Data Sheet

## NON ACID TOILET BOWL CLEANER

## Section 1. Identification

| | |
|---|---|
| Product Identifier | NON ACID TOILET BOWL CLEANER |
| Synonyms | EVSCHEM430; MSD_SDS0284 |
| Manufacturer Stock Numbers | EVSCHEM430 |
| Recommended use | Non-acid disinfectant cleaner. For industrial use. |
| Uses advised against | N/A |

Manufacturer Contact

Address

Medline Industries, Inc.
One Medline Place
Mundelein, IL, 60060
USA

| Phone | Emergency Phone | Fax |
|---|---|---|
| (800) 633-5463 | (800) 424-9300<br>CHEMTREC | (847) 643-4436 |

Website

www.Medline.com

## Section 2. Hazards Identification

| | |
|---|---|
| Classification | ACUTE TOXICITY - DERMAL - Category 5<br>EYE DAMAGE/IRRITATION - Category 2B<br>HAZARDOUS TO THE AQUATIC ENVIRONMENT - A - Category 2<br>SKIN CORROSION/IRRITATION - Category 3 |
| Signal Word | Warning |
| Pictogram | |
| Hazard Statements | Causes eye irritation<br>Causes mild skin irritation<br>May be harmful in contact with skin<br>Toxic to aquatic life |
| Precautionary Statements | |
| Response | Call a POISON CENTER or doctor/physician if you feel unwell.<br>If eye irritation persists: Get medical advice/attention.<br>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, |

| | |
|---|---|
| | if present and easy to do. Continue rinsing.<br>If skin irritation occurs: Get medical advice/attention. |
| Prevention | Avoid release to the environment<br>Wash face, hands and any exposed skin thoroughly after handling. |
| Storage | No other specific measures identified. |
| Disposal | Dispose of contents/container in accordance with local, regional, and/or national regulations. |

| | |
|---|---|
| Ingredients of unknown toxicity | 0% |
| Hazards not Otherwise Classified | |
| Other Hazards: | None known. |
| Unknown Acute Toxicity: | None known. |

## Section 3. Ingredients

| CAS | Ingredient Name | Weight % |
|---|---|---|
| 64-17-5 | Ethyl alcohol | < 200 ppm % |
| 7732-18-5 | Water | 60% - 100% |

**Occupational exposure limits, if available, are listed in Section 8.**

*If Chemical Name/CAS-No. is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

## Section 4. First-Aid Measures

| | |
|---|---|
| Eye Contact | May cause irritation. 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 eyes. If irritation persists, get medical attention. |
| Skin Contact: | May be mildly irritation. Very large exposure may be harmful. Flush immediately with plenty of water. If irritation persists, get medical attention. |
| Inhalation: | Mists and vapors may be mildly irritating to the throat and respiratory tract. If breathing is affected, remove to fresh air. Get medical attention. |
| Ingestion | Harmful if swallowed. Immediately drink one cupful of water or milk. Get medical attention. Do not give anything by mouth to an unconscious person. |
| Aggravated Medical Conditions: | Persons with pre-existing skin disorders may be more susceptible to irritating effects. |
| Most important symptoms and effects, both acute and delayed: | Symptoms:<br>May be irritating to eyes and skin. |
| Indication of any immediate medical attention and special treatment needed: | Notes to physician:<br>Treat symptomatically. |

## Section 5. Fire Fighting Measures

| | |
|---|---|
| Suitable Extinguishing Media | In case of fire, use Water spray (fog), Carbon Dioxide (CO2), Water, Foam. |
| Unsuitable Extinguishing Media | N.D. |
| Specific hazards arising from the chemical: | Irritating and toxic gases or fumes may be released during a fire. |
| Hazardous combustion products: | Combustion products are toxic. |
| 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:<br>Wear protective clothing as described in Section 8 of this safety data sheet.<br><br>Environmental Precautions:<br>Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13, Disposal Considerations, for additional information. See Section 12 for additional Ecological Information. |
| Methods and Materials for Containment and Cleaning up: | Methods for Containment:<br>Prevent from spreading or entering drains, ditches or rivers by using sand, earth, or other appropriate barriers.<br><br>Methods for Clean-up:<br>Contain and collect with an inert absorbent and place into an appropriate container for disposal. Rinse area with clean water and dry before permitting traffic. |

## Section 7. Handling and Storage

| | |
|---|---|
| Precautions for Safe Handling: | Advice on Safe Handling:<br>Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. For industrial and commercial use only. Avoid contact with skin, eyes or clothing. |
| Conditions for safe storage, including any incompatibilities: | Storage Conditions:<br>Keep container tightly closed and store in a cool, dry and well-ventilated place. Protect from freezing. Keep out of the reach of children.<br><br>Incompatible Materials:<br>None known based on information supplied. |

## Section 8. Exposure Controls/Personal Protection

| | | | | |
|---|---|---|---|---|
| Occupational Exposure Limits | Ingredient Name | ACGIH TLV | OSHA PEL | STEL |
| | Ethyl alcohol | STEL: 1,000 ppm<br><br>Note: Upper respiratory track irritation. Confirmed animal carcinogen with unknown relevance to humans. | TWA: 1,000 ppm 1,900mg/mm3<br><br>29 CFR 1910.1000 Table Z-1 Limits | N/A |
| | Water | N/A | N/A | N/A |
| Personal Protective Equipment | Goggles, Gloves | | | |
| Appropriate Engineering Controls: | Engineering Controls:<br>Ensure adequate ventilation, especially in confined areas. Good general room ventilation (equivalent to outdoors) should be adequate under normal conditions. Eyewash stations. Showers. | | | |
| Individual protection measures, such as personal protective equipment: | Eye/Face Protection:<br>Eye protection should be used when splashing may occur.<br><br>Skin and Body Protection:<br>Wear protective gloves when handling this product.<br><br>Respiratory Protection:<br>Under normal conditions, respirator is not normally required. Avoid breathing vapors.<br><br>General Hygiene Considerations:<br>Handle in accordance with good industrial hygiene and safety practice. | | | |

## Section 9. Physical and Chemical Properties

| | |
|---|---|
| Physical State | Liquid |
| Color | Blue/Clear liquid |
| Odor | Fresh |
| Odor Threshold | Not determined |
| Solubility | Completely soluble |
| Partition coefficient Water/n-octanol | Not determined |
| VOC% | N/A |
| Viscosity | Not determined |
| Specific Gravity | 1.01 |
| Density lbs/Gal | N/A |
| Pounds per Cubic Foot | N/A |
| Flash Point | None when heated to 102°C |
| FP Method | Cleveland Open Cup |
| Ph | 6.0-9.0 |
| Melting Point | Approximately 32°F |
| Boiling Point/Boiling Range | Approximately 212°F |
| Kinematic Viscosity | Not determined |
| LEL | N/A |
| UEL | N/A |
| Evaporation Rate | Not determined |
| Flammability | Liquid-not applicable |
| Decomposition Temperature | Not determined |
| Auto-ignition Temperature | Not determined |
| Vapor Pressure | Not determined |
| Vapor Density | Estimated to be heavier than air |

## Section 10. Stability and Reactivity

| | |
|---|---|
| Reactivity: | Not reactive under normal conditions. |
| 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: | Keep out of reach of children. Freezing Heat. Oxidizing agents. |
| Incompatibility (Materials to Avoid): | Strong oxidizing agents (may result in fire), reducing agents. |
| Hazardous Decomposition or Byproducts: | Thermal decomposition may produce carbon monoxide, carbon dioxide, and toxic hydrogen chloride vapors. |

## Section 11. Toxicological Information

Information on likely routes of exposure:

Product information:

Eye contact:
Avoid contact with eyes. Irritating.

Skin contact:
Avoid contact with skin. May be irritating.

Inhalation:
Avoid breathing vapors or mists.

Ingestion:
Do not taste or swallow.

Chronic Effects:
Ingestion of ethanol by pregnant women can cause reproductive toxicity to the fetus.

Component Information:

Chemical name:
Product as a whole

Oral LD50
>5000mg/kg (Rat)
Dermal LD50
>2000mg/kg (Rat)
Inhalation LC50
-

Information on Physical, Chemical and Toxicological Effects:

Symptoms:
Please see section 4 of this SDS for symptoms.

Delayed-immediate effects, also chronic effects from short & long term exposure:

Carcinogenicity:
This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

Numerical Measures of Toxicity:

N.D.

## Section 12. Ecological Information

| | |
|---|---|
| Ecotoxicity: | Component Information<br><br>Chemical Name:<br>Product as a whole<br><br>Algae/aquatic plants, Fish, Toxicity to microorganisms, Crustacea:<br>No data available for this product, but it is considered toxic to fish. |
| Persistence and degradability: | Not expected to persist. |
| Bioaccumulation: | Not expected to bioaccumulate. |
| Mobility: | N.D. |
| Other adverse effects: | N.D. |

## Section 13. Disposal

| | |
|---|---|
| Waste Treatment Methods: | Disposal of Wastes:<br>This substance, when discarded or disposed of, is a characteristic hazardous waste according to Federal regulation (40 CFR 261) and is assigned the EPA Hazardous Waste Number of D001. The discarding or disposal of this material must be done at a properly permitted facility in accordance with the regulations of 40 CFR 262, 263, 264, and 268. Additionally, the discarding or disposal of this material may be further regulated by state, regional, or local regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented in the SDS incomplete, inaccurate or otherwise inappropriate.<br><br>Contaminated Packaging:<br>Disposal should be in accordance with applicable regional, national and local laws and regulations. |

## Section 14. Transport Information

| | |
|---|---|
| UN Number | N/A |
| UN Proper Shipping Name | Not Regulated |
| DOT Classification | Not Regulated |
| Packing Group | Not Regulated |
| Note: | See current shipping paper for most up to date shipping information, including exemptions and special circumstances. |

## Section 15. Regulatory Information

| | |
|---|---|
| SARA 311/312: | N.A. |
| SARA 302: | N.A. |
| SARA 313: | N.A. |
| TSCA: | N.A. |
| CERCLA Hazardous Substance List: | N.A. |
| Clean Air Act (CAA) Section 112, 112 (r): | N.A. |
| New Jersey Right to Know Components: | ETHYL ALCOHOL. |
| Massachusetts Right to Know Components: | ETHYL ALCOHOL |
| Pennsylvania Right to Know Components: | ETHYL ALCOHOL |
| Rhode Island Right to Know Components: | ETHYL ALCOHOL |

## Section 16. Other Information

| | |
|---|---|
| Revision Date | 9/30/2016 |
| Legend | N.A. - Not Applicable<br>N.E. - Not Established<br>N.D. - Not Determined |
| HMIS (U.S.A.): Health Hazard | 1 |
| HMIS (U.S.A.): Flammability | O |
| HMIS (U.S.A.): Physical Hazard | O |
| HMIS (U.S.A.): Personal Protection | N.D. |
| National Fire Protection Association (U.S.A): Health Hazard | 1 |
| National Fire Protection Association (U.S.A): Flammability | O |
| National Fire Protection Association (U.S.A): Instability Hazard | O |
| National Fire Protection Association (U.S.A): Special Hazard | N.D. |
| 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 |

# SAFETY DATA SHEET

## OXYCIDE DAILY DISINFECTANT CLEANER

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

| | | |
|---|---|---|
| Product name | : | OXYCIDE DAILY DISINFECTANT CLEANER |
| Other means of identification | : | Not applicable |
| Recommended use | : | Disinfectant |
| Restrictions on use | : | Reserved for industrial and professional use. |
| Product dilution information | : | 2.34 %<br>3 OZ/GAL OR 23 ML/L IN WATER |
| Company | : | Ecolab Inc.<br>370 N. Wabasha Street<br>St. Paul, Minnesota USA 55102<br>1-800-352-5326 |
| Emergency health information | : | 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US) |
| Issuing date | : | 08/11/2016 |

## SECTION 2. HAZARDS IDENTIFICATION

### GHS Classification

**Product AS SOLD**

| | | |
|---|---|---|
| Oxidizing liquids | : | Category 2 |
| Organic peroxides | : | Type F |
| Acute toxicity (Oral) | : | Category 4 |
| Acute toxicity (Inhalation) | : | Category 3 |
| Skin corrosion | : | Category 1A |
| Serious eye damage | : | Category 1 |

**Product AT USE DILUTION**

| | | |
|---|---|---|
| Acute toxicity (Oral) | : | Category 4 |

### GHS label elements

**Product AS SOLD**

Hazard pictograms :

Signal Word : Danger

Hazard Statements : Heating may cause a fire.
May intensify fire; oxidizer.
Harmful if swallowed.
Causes severe skin burns and eye damage.
Toxic if inhaled.

Precautionary Statements : **Prevention:**
Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep/Store away from clothing/ combustible materials. Take any precaution to avoid mixing with combustibles. Keep only in original container. Keep cool. Avoid breathing dust/ fume/ gas/ mist/ vapors/

spray. Wash skin 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.
**Response:**
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. 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/doctor. Wash contaminated clothing before reuse. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
**Storage:**
Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Store away from other materials.
**Disposal:**
Dispose of contents/ container to an approved waste disposal plant.

**Product AT USE DILUTION**

Hazard pictograms : 

Hazard Statements : Harmful if swallowed.

Precautionary Statements : **Prevention:**
Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product.
**Response:**
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
**Disposal:**
Dispose of contents/ container to an approved waste disposal plant.

**Product AS SOLD**

**Other hazards** : Do not mix with bleach or other chlorinated products – will cause chlorine gas.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Product AS SOLD**

Pure substance/mixture : Mixture

| **Chemical name** | **CAS-No.** | **Concentration (%)** |
|---|---|---|
| Hydrogen peroxide | 7722-84-1 | 27.5 |
| Acetic acid | 64-19-7 | 5 - 10 |
| Peroxyacetic acid | 79-21-0 | 5.8 |

**Product AT USE DILUTION**

| **Chemical name** | **CAS-No.** | **Concentration (%)** |
|---|---|---|
| Hydrogen peroxide | 7722-84-1 | 0.64 |
| Peroxyacetic acid | 79-21-0 | 0.14 |

## SECTION 4. FIRST AID MEASURES

**Product AS SOLD**

| | | |
|---|---|---|
| In case of 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. Get medical attention immediately. |
| In case of skin contact | : | Wash off immediately with plenty of water for at least 15 minutes. Use a mild soap if available. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately. |
| If swallowed | : | Rinse mouth with water. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention immediately. |
| If inhaled | : | Remove to fresh air. Treat symptomatically. Get medical attention immediately. |
| Protection of first-aiders | : | If potential for exposure exists refer to Section 8 for specific personal protective equipment. |
| Notes to physician | : | Treat symptomatically. |
| Most important symptoms and effects, both acute and delayed | : | See Section 11 for more detailed information on health effects and symptoms. |

**Product AT USE DILUTION**

| | | |
|---|---|---|
| In case of eye contact | : | Rinse with plenty of water. |
| In case of skin contact | : | Rinse with plenty of water. |
| If swallowed | : | Rinse mouth. Get medical attention if symptoms occur. |
| If inhaled | : | Get medical attention if symptoms occur. |

## SECTION 5. FIRE-FIGHTING MEASURES

**Product AS SOLD**

| | | |
|---|---|---|
| Suitable extinguishing media | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : | None known. |
| Specific hazards during fire fighting | : | Special protective equipment for fire-fighters<br>Oxidizer. Contact with other material may cause fire.<br>Oxidizer; material is an oxidizer which may readily react with other materials, especially upon heating. |
| Hazardous combustion products | : | Decomposition products may include the following materials:<br>Carbon oxides<br>Nitrogen oxides (NOx)<br>Sulfur oxides<br>Oxides of phosphorus |
| Special protective equipment for fire-fighters | : | In case of fire, wear a full face positive-pressure self contained breathing apparatus and protective suit. |

| | | |
|---|---|---|
| Specific extinguishing methods | : | Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes. |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

**Product AS SOLD**

| | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8. |
| Environmental precautions | : | Do not allow contact with soil, surface or ground water. |
| Methods and materials for containment and cleaning up | : | Stop leak if safe to do so. Never soak up spilled or leaked acids and bases with sawdust, wood chips or similar materials. Isolate the waste do not allow it to come into contact with incompatible materials. For small spills contain with sand or vermiculite and dilute the contained product at least 10 times with water. Transfer to an open topped container and remove to a safe place for neutralization* / disposal. For large spills contain spill and evacuate the area, leave until the reaction subsides, then collect up for disposal. Obtain consent from the local water company / authority if considering discharge to sewer. *NEUTRALIZATION : once diluted, neutralize with a suitable alkali such as sodium bicarbonate. |

**Product AT USE DILUTION**

| | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8. |
| Environmental precautions | : | Do not allow contact with soil, surface or ground water. |
| Methods and materials for containment and cleaning up | : | Stop leak if safe to do so. Contain spillage, and then collect 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). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. |

## SECTION 7. HANDLING AND STORAGE

**Product AS SOLD**

| | | |
|---|---|---|
| Advice on safe handling | : | Do not ingest. Do not get in eyes, on skin, or on clothing. Do not breathe dust/ fume/ gas/ mist/ vapors/ spray. Use only with adequate ventilation. Wash hands thoroughly after handling. Do not mix with bleach or other chlorinated products – will cause chlorine gas. |
| Conditions for safe storage | : | Keep in a cool, well-ventilated place. Keep away from reducing agents. Keep away from strong bases. Keep away from combustible material. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers. Pressure bursts may occur due to gas evolution if the container is not adequately vented. |
| Storage temperature | : | -10 °C to 40 °C |

**Product AT USE DILUTION**

Advice on safe handling : Do not ingest. Wash hands thoroughly after handling.

Conditions for safe storage : Keep out of reach of children. Store in suitable labeled containers.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Product AS SOLD**
**Ingredients with workplace control parameters**

| Ingredients | CAS-No. | Form of exposure | Permissible concentration | Basis |
|---|---|---|---|---|
| Hydrogen peroxide | 7722-84-1 | TWA | 1 ppm | ACGIH |
| | | TWA | 1 ppm<br>1.4 mg/m3 | NIOSH REL |
| | | TWA | 1 ppm<br>1.4 mg/m3 | OSHA Z1 |
| Acetic acid | 64-19-7 | TWA | 10 ppm | ACGIH |
| | | STEL | 15 ppm | ACGIH |
| | | STEL | 15 ppm<br>37 mg/m3 | NIOSH REL |
| | | TWA | 10 ppm<br>25 mg/m3 | NIOSH REL |
| | | TWA | 10 ppm<br>25 mg/m3 | OSHA Z1 |
| Peroxyacetic acid | 79-21-0 | STEL | 0.4 ppm | ACGIH |

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

**Personal protective equipment**

Eye protection : Wear eye protection/ face protection.

Hand protection : Wear the following personal protective equipment:
Standard glove type.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

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. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

**Product AT USE DILUTION**

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below occupational exposure standards.

**Personal protective equipment**

| | | |
|---|---|---|
| Eye protection | : | No special protective equipment required. |
| Hand protection | : | No special protective equipment required. |
| Skin protection | : | No special protective equipment required. |
| Respiratory protection | : | No personal respiratory protective equipment normally required. |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | Product AS SOLD | Product AT USE DILUTION |
|---|---|---|---|
| Appearance | : | liquid | liquid |
| Color | : | colorless | colorless |
| Odor | : | pungent | vinegar-like |
| pH | : | 1.0, 100 % | 3.06 |
| Flash point | : | Not applicable | |
| Odor Threshold | : | No data available | |
| Melting point/freezing point | : | No data available | |
| Initial boiling point and boiling range | : | No data available | |
| Evaporation rate | : | No data available | |
| Flammability (solid, gas) | : | No data available | |
| Upper explosion limit | : | No data available | |
| Lower explosion limit | : | No data available | |
| Vapor pressure | : | No data available | |
| Relative vapor density | : | No data available | |
| Relative density | : | 1.10 - 1.14 | |
| Water solubility | : | No data available | |
| Solubility in other solvents | : | No data available | |
| Partition coefficient: n-octanol/water | : | No data available | |
| Autoignition temperature | : | No data available | |
| Thermal decomposition | : | No data available | |
| Viscosity, kinematic | : | No data available | |
| Explosive properties | : | No data available | |
| Oxidizing properties | : | No data available | |
| Molecular weight | : | No data available | |
| VOC | : | No data available | |

## SECTION 10. STABILITY AND REACTIVITY

**Product AS SOLD**

| | | |
|---|---|---|
| Chemical stability | : | Pressure-generating chemical |
| Possibility of hazardous reactions | : | Do not mix with bleach or other chlorinated products – will cause chlorine gas. |

| | | |
|---|---|---|
| Conditions to avoid | : | Direct sources of heat.<br>Exposure to sunlight. |
| Incompatible materials | : | Bases<br>Metals<br>Organic materials |
| Hazardous decomposition products | : | Decomposition products may include the following materials:<br>Carbon oxides<br>Nitrogen oxides (NOx)<br>Sulfur oxides<br>Oxides of phosphorus |

## SECTION 11. TOXICOLOGICAL INFORMATION

| | | |
|---|---|---|
| Information on likely routes of exposure | : | Inhalation, Eye contact, Skin contact |

**Potential Health Effects**

**Product AS SOLD**

| | | |
|---|---|---|
| Eyes | : | Causes serious eye damage. |
| Skin | : | Causes severe skin burns. |
| Ingestion | : | Harmful if swallowed. Causes digestive tract burns. |
| Inhalation | : | Toxic if inhaled. May cause nose, throat, and lung irritation. |
| Chronic Exposure | : | Health injuries are not known or expected under normal use. |

**Product AT USE DILUTION**

| | | |
|---|---|---|
| Eyes | : | Health injuries are not known or expected under normal use. |
| Skin | : | Health injuries are not known or expected under normal use. |
| Ingestion | : | Harmful if swallowed. |
| Inhalation | : | Health injuries are not known or expected under normal use. |
| Chronic Exposure | : | Health injuries are not known or expected under normal use. |

**Experience with human exposure**

**Product AS SOLD**

| | | |
|---|---|---|
| Eye contact | : | Redness, Pain, Corrosion |
| Skin contact | : | Redness, Pain, Corrosion |
| Ingestion | : | Corrosion, Abdominal pain |
| Inhalation | : | Respiratory irritation, Cough |

**Product AT USE DILUTION**

| | | |
|---|---|---|
| Eye contact | : | No symptoms known or expected. |
| Skin contact | : | No symptoms known or expected. |

| | | |
|---|---|---|
| Ingestion | : | No information available. |
| Inhalation | : | No symptoms known or expected. |

**Toxicity**

**Product AS SOLD**
**Product**

| | | |
|---|---|---|
| Acute inhalation toxicity | : | No data available |
| Acute dermal toxicity | : | Acute toxicity estimate : > 5,000 mg/kg |
| Skin corrosion/irritation | : | No data available |
| Serious eye damage/eye irritation | : | No data available |
| Respiratory or skin sensitization | : | No data available |
| Carcinogenicity | : | No data available |
| Reproductive effects | : | No data available |
| Germ cell mutagenicity | : | No data available |
| Teratogenicity | : | No data available |
| STOT-single exposure | : | No data available |
| STOT-repeated exposure | : | No data available |
| Aspiration toxicity | : | No data available |

**Ingredients**

| | | |
|---|---|---|
| Acute inhalation toxicity | : | Acetic acid<br>4 h LC50 Rat: > 40 mg/l<br><br>Peroxyacetic acid<br>4 h LC50 Rat: 4.080 mg/l |

## SECTION 12. ECOLOGICAL INFORMATION

**Product AS SOLD**
**Ecotoxicity**

| | | |
|---|---|---|
| Environmental Effects | : | Harmful to aquatic life. |

**Product**

| | | |
|---|---|---|
| Toxicity to fish | : | 96 h LC50: 17.8 mg/l |
| Toxicity to daphnia and other aquatic invertebrates | : | No data available |
| Toxicity to algae | : | No data available |

**Ingredients**

| | | |
|---|---|---|
| Toxicity to daphnia and other aquatic invertebrates | : | Peroxyacetic acid<br>48 h EC50: 0.73 mg/l |

**Ingredients**

| | | |
|---|---|---|
| Toxicity to algae | : | Hydrogen peroxide<br>72 h EC50: 1.38 mg/l |

Peroxyacetic acid
72 h EC50: 0.7 mg/l

**Persistence and degradability**

**Product AS SOLD**
Not applicable - Biocide

**Product AT USE DILUTION**
Not applicable - Biocide

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

## SECTION 13. DISPOSAL CONSIDERATIONS

**Product AS SOLD**

| | | |
|---|---|---|
| Disposal methods | : | Do not contaminate ponds, waterways or ditches with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility. |
| Disposal considerations | : | Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Dispose of in accordance with local, state, and federal regulations. |
| RCRA - Resource Conservation and Recovery Authorization Act Hazardous waste | : | D002 (Corrosive)<br>D001 (Ignitable) |

**Product AT USE DILUTION**

| | | |
|---|---|---|
| Disposal methods | : | Do not contaminate ponds, waterways or ditches with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility. |
| Disposal considerations | : | Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Dispose of in accordance with local, state, and federal regulations. |

## SECTION 14. TRANSPORT INFORMATION

**Product AS SOLD**

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

**Land transport (DOT)**

| | | |
|---|---|---|
| UN number | : | 3109 |
| Description of the goods | : | Organic peroxide type F, liquid<br>(Peroxyacetic acid) |
| Class | : | 5.2 |
| Packing group | : | II |
| Environmentally hazardous | : | no |

**Sea transport (IMDG/IMO)**

| | | |
|---|---|---|
| UN number | : | 3109 |
| Description of the goods | : | ORGANIC PEROXIDE TYPE F, LIQUID<br>(Peroxyacetic acid) |
| Class | : | 5.2 (8) |
| Marine pollutant | : | no |

## SECTION 15. REGULATORY INFORMATION

**Product AS SOLD**

**EPA Registration number** : 1677-237

**EPCRA - Emergency Planning and Community Right-to-Know**

**CERCLA Reportable Quantity**

| Ingredients | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|---|---|---|---|
| Acetic acid | 64-19-7 | 5000 | 62500 |

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

| Ingredients | CAS-No. | Component RQ (lbs) | Calculated product RQ (lbs) |
|---|---|---|---|
| Peroxyacetic acid | 79-21-0 | 500 | 8621 |

**SARA 311/312 Hazards** : Reactivity Hazard
Acute Health Hazard
Fire Hazard

**SARA 302** : The following components are subject to reporting levels established by SARA Title III, Section 302:

| | | |
|---|---|---|
| Hydrogen peroxide | 7722-84-1 | 27.5 % |
| Peroxyacetic acid | 79-21-0 | 5.8 % |

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

| | | |
|---|---|---|
| Peroxyacetic acid | 79-21-0 | 5.8 % |

**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:**

**United States TSCA Inventory** :
On TSCA Inventory

**Canadian Domestic Substances List (DSL)** :
All components of this product are on the Canadian DSL

**Australia Inventory of Chemical Substances (AICS)** :
On the inventory, or in compliance with the inventory

**New Zealand. Inventory of Chemical Substances** :
On the inventory, or in compliance with the inventory

**Japan. ENCS - Existing and New Chemical Substances Inventory** :
On the inventory, or in compliance with the inventory

**Japan. ISHL - Inventory of Chemical Substances (METI)** :
On the inventory, or in compliance with the inventory

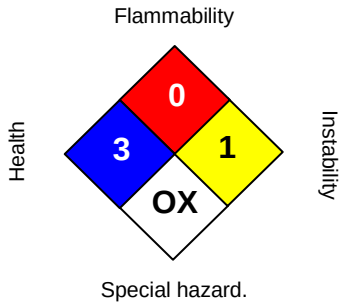
**Korea. Korean Existing Chemicals Inventory (KECI)** :
On the inventory, or in compliance with the inventory

**Philippines Inventory of Chemicals and Chemical Substances (PICCS)** :
On the inventory, or in compliance with the inventory

**China. Inventory of Existing Chemical Substances in China (IECSC)** :
On the inventory, or in compliance with the inventory

## SECTION 16. OTHER INFORMATION

**Product AS SOLD**
**NFPA:**

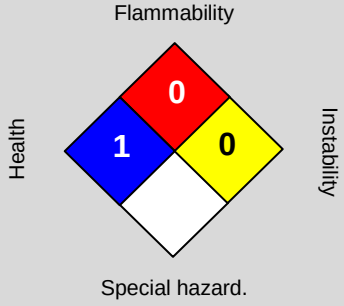



**HMIS III:**

| | |
|---|---|
| HEALTH | 3 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 1 |

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

**Product AT USE DILUTION**
**NFPA:**




**HMIS III:**

| | |
|---|---|
| HEALTH | 1 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Issuing date : 08/11/2016

Version : 2.2
Prepared by : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

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.

Johnson wax PROFESSIONAL

**Material Safety Data Sheet**

# PAINT, OIL & GREASE SPOTTER GEL

| National Fire Protection Association (NFPA) | | Hazardous Material Information System (HMIS) | |
|---|---|---|---|
| | Fire Hazard: 2 | Health | 1 |
| Health: 1 | Reactivity: 0 | Fire Hazard | 2 |
| | Specific Hazard | Reactivity | 0 |

**Protective Clothing** None required.

**Emergency Overview** Translucent. Gel. See Section 9.
DANGER: COMBUSTIBLE. HARMFUL OR FATAL IF SWALLOWED.

## Section 1. Chemical Product and Company Identification

| | |
|---|---|
| **Product Name** | **PAINT, OIL & GREASE SPOTTER GEL** |
| **Product Use** | Industrial/Institutional: Carpet care. |
| **MSDS#** | 126332004 |

**U.S. Headquarters**
Johnson Wax Professional
8310 16th Street
Sturtevant, Wisconsin 53177-0902
Phone: (888) 352-2249
MSDS Internet Address:
www.jwp.com

**Canadian Headquarters**
Johnson Wax Professional
100 Matheson Blvd. East, Suite 203
Mississauga, Ontario L4Z 2G7
Phone: (905) 755-0913 or
(888) 746-5971

| | |
|---|---|
| **Code** | 13888 |
| **PMS#** | 451088 |
| **Validation Date** | 11/23/2004 |
| **Print Date** | 11/23/2004 |
| **Supersedes** | 11/23/2004 |
| **In Case of Emergency** | (800) 851-7145 |

## Section 2. Composition and Information on Ingredients

| Ingredients | CAS # | % by Weight | Exposure Limits | LC50/LD50 |
|---|---|---|---|---|
| Amorphous Silica | 112945-52-5 | 1-5 | Not available. | ORAL (LD50): Acute: 3160 mg/kg [Rat]. |
| Ethoxylated Alcohol | 68551-12-2 | 1-5 | Not available. | Not available. |
| Diethylene Glycol Butyl Ether | 112-34-5 | 10-30 | Not available. | ORAL (LD50): Acute: 5660 mg/kg [Rat]. DERMAL (LD50): Acute: 2700 mg/kg [Rabbit]. |
| Isoparaffinic Hydrocarbon Solvent | 64742-47-8 | 60-100 | Not available. | ORAL (LD50): Acute: >10 mg/kg [Rat]. |

## Section 3. Hazards Identification

**Routes of Entry** Eye contact. Ingestion. Inhalation. Skin contact

**Potential Acute Health Effects**

***Eyes*** None known.

***Skin*** May be mildly irritating to skin.

***Inhalation*** None known.

***Ingestion*** HARMFUL OR FATAL IF SWALLOWED. Aspiration into the lungs may cause chemical pneumonitis. May cause abdominal discomfort, nausea, vomiting and diarrhea.

**Medical Conditions Aggravated by Overexposure:** Persons with pre-existing skin disorders may be more susceptable to irritating effects.

**See Toxicological Information (section 11)**

## Section 4. First Aid Measures

| | |
|---|---|
| **Eye Contact** | Rinse with plenty of running water. |
| **Skin Contact** | Flush immediately with plenty of water. Get medical attention if irritation occurs. |
| **Inhalation** | No specific first aid measures are required. |
| **Ingestion** | Do not induce vomiting! Call medical attendant, doctor, or poison control center immediately. |

***Continued on Next Page***

## Section 5. Fire Fighting Measures

| | |
|---|---|
| **Flammability of the Product** | COMBUSTIBLE. |
| **Flash Points** | CLOSED CUP: 85.556°C (186°F). |
| **Products of Combustion** | None known. |
| **Fire Fighting Media and Instructions** | Use water spray to keep fire-exposed containers cool. Dry chemical, carbon dioxide. |
| **Protective Clothing (Fire)** | Put on appropriate personal protective equipment (see Section 8.). |
| **Special Remarks on Fire and Explosion Hazards** | Material may burn in heat of fire. Liquid will float and may reignite on surface of water. |

## Section 6. Accidental Release Measures

| | |
|---|---|
| **Personal Precautions** | Put on appropriate personal protective equipment (see Section 8.). |
| **Environmental Precautions and Clean-up Methods** | Eliminate all ignition sources. In the event of major spillage: Use appropriate containment to avoid environmental contamination. Take up with sand or other non-combustible material. Place in suitable clean, dry containers for disposal by approved methods. |

## Section 7. Handling and Storage

| | |
|---|---|
| **Handling** | Do not taste or swallow. Avoid breathing vapors or spray mists. Use appropriate hygiene measures when handling product. Use only in well-ventilated areas. Avoid contact with skin and eyes. FOR INDUSTRIAL USE ONLY . |
| **Storage** | Store in a dry, cool and well-ventilated area. Protect from freezing. Keep away from heat, sparks and flame. Keep container tightly closed. KEEP OUT OF REACH OF CHILDREN. |

## Section 8. Exposure Controls/Personal Protection

| | |
|---|---|
| **Engineering Controls** | No special ventilation requirements. General room ventilation is adequate. |
| **Personal Protection** | |
| ***Eyes*** | No special requirements under normal use conditions. |
| ***Hands*** | No special requirements under normal use conditions. |
| ***Respiratory*** | No special requirements under normal use conditions. |
| ***Feet*** | No special requirements under normal use conditions. |
| ***Body*** | No special protective clothing is required. |

## Section 9. Physical and Chemical Properties

| | |
|---|---|
| **Physical State and Appearance** | Liquid. (Gel.) |
| **Odor** | Fruity. |
| **Color** | Translucent. |
| **pH** | Not available. |
| **Specific Gravity** | 0.82 |
| **Solubility in water** | Dispersible. |

## Section 10. Stability and Reactivity

| | |
|---|---|
| **Stability and Reactivity** | The product is stable. |
| **Conditions of Instability** | Excessive heat. |
| **Incompatibility with Various Substances** | Reactive with oxidizing agents. |
| **Hazardous Decomposition Products** | When exposed to fire: Produces normal products of combustion. |
| **Hazardous Polymerization** | Will not occur. |

***Continued on Next Page***

## Section 11. Toxicological Information

| | |
|---|---|
| **Acute toxicity** | ORAL (LD50) Estimated to be greater than 5000 mg/kg (rat). |
| **Effects of Chronic Exposure** | None known. |
| **Other Toxic Effects** | None known. |

## Section 12. Ecological Information

**Not available.**

## Section 13. Disposal Considerations

| | |
|---|---|
| **Waste Information** | Undiluted product is regulated under environmental and transportation laws as an ignitable waste. Dispose of according to all federal, state and local regulations. |

## Section 14. Transport Information

**DOT Classification**

| | |
|---|---|
| **DOT Proper Shipping Name** | Please refer to the Bill of Lading/receiving documents for up to date shipping information. |
| **DOT Class** | |

**TDG Classification**

| | |
|---|---|
| **TDG Proper Shipping Name** | Please refer to the Bill of Lading/receiving documents for up to date shipping information. |
| **TDG Class** | |

## Section 15. Regulatory Information

**Reporting in this section is based on ingredients disclosed in Section 2**

**US Regulations**

| | |
|---|---|
| **Federal** | CERCLA: Hazardous substances.: Diethylene Glycol Butyl Ether |
| **State** | New Jersey spill list: Diethylene Glycol Butyl Ether<br>New Jersey: Diethylene Glycol Butyl Ether<br>Pennsylvania RTK: Diethylene Glycol Butyl Ether<br>This product is not subject to the reporting requirements under California's Proposition 65. |
| **Registered Product Information** | Not applicable. |

**Canadian Regulations**

| | |
|---|---|
| **WHMIS Classification** | Class B-3: Combustible liquid with a flash point between 37.8°C (100°F) and 93.3°C (200°F). |
| **WHMIS Icon** |  |
| **Registered Product Information** | Not applicable. |

| | |
|---|---|
| **Chemical Inventory Status** | All ingredients of this product are listed or are excluded from listing on the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory. |

*Continued on Next Page*

## Section 16. Other Information

| | |
|---|---|
| **Other Special Considerations** | Not available. |
| **Version** | 1 |

**Notice to Reader**

***This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.***

# SAFETY DATA SHEET

pH7 Natural All Purpose Cleaner

## Section 1. Identification

**GHS product identifier** : pH7 Natural All Purpose Cleaner

**Product code** : 138

**Other means of identification** : Not available.

**Product type** : Liquid.

**Relevant identified uses of the substance or mixture and uses advised against**

Not applicable.

**Supplier's details** : Betco Corporation
400 Van Camp Road
Toledo, Ohio 43402
www.betco.com
888-462-3826

**Emergency telephone number (with hours of operation)** : Chemtrec (800) 424-9300 24 hour

## Section 2. Hazards identification

**OSHA/HCS status** : While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

**Classification of the substance or mixture** : Not classified.

**GHS label elements**

**Signal word** : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements**

**Prevention** : Not applicable.

**Response** : Not applicable.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Other means of identification** : Not available.

| Ingredient name | % | CAS number |
|---|---|---|
| Alcohols, C9-11, ethoxylated | ≤3 | 68439-46-3 |

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.**

# Section 3. Composition/information on ingredients

**Occupational exposure limits, if available, are listed in Section 8.**

# Section 4. First aid measures

## Description of necessary first aid measures

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**Ingestion** : Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

## Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Eye contact** : No specific data.

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

## Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training.

**See toxicological information (Section 11)**

# Section 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** : No specific data.

**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.

# Section 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. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized 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. 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. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

# Section 7. Handling and storage

## Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8).

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**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. 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. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

## Control parameters

### Occupational exposure limits

| Ingredient name | Exposure limits |
|---|---|
| Alcohols, C9-11, ethoxylated | None. |

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**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.

# Section 8. Exposure controls/personal protection

## 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: safety glasses with side-shields.

## 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.

**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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

# Section 9. Physical and chemical properties

## Appearance

**Physical state** : Liquid.

**Color** : Yellowish.-Green. Clear.

**Odor** : Lemon-like.

**Odor threshold** : Not available.

**pH** : 6.5 to 8.5

**Melting point** : Not available.

**Boiling point** : Not available.

**Flash point** : Closed cup: >150°C (>302°F)

**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** : 1.0033

**Solubility** : Easily soluble in the following materials: cold water and hot water.

**Solubility in water** : Not available.

**Partition coefficient: n-octanol/water** : Not available.

**Auto-ignition temperature** : Not available.

**Decomposition temperature** : Not available.

**Viscosity** : Not available.

**Flow time (ISO 2431)** : Not available.

# Section 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.

**Conditions to avoid** : No specific data.

**Incompatible materials** : No specific data.

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

## Information on toxicological effects

### Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| Alcohols, C9-11, ethoxylated | LD50 Dermal<br>LD50 Oral | Rabbit<br>Rat | 2 g/kg<br>1378 mg/kg | -<br>- |

### Irritation/Corrosion

Not available.

### Sensitization

Not available.

### Mutagenicity

Not available.

### Carcinogenicity

Not available.

### 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** : Routes of entry anticipated: Oral, Dermal.
Routes of entry not anticipated: Inhalation.

### Potential acute health effects

**Eye contact** : No known significant effects or critical hazards.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

# Section 11. Toxicological information

## Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : No specific data.

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

## 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

Not available.

# Section 12. Ecological information

## Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| Alcohols, C9-11, ethoxylated | Acute EC50 5.36 mg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute EC50 2686 µg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 8500 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |

## Persistence and degradability

Not available.

## Bioaccumulative potential

Not available.

## Mobility in soil

**Soil/water partition coefficient ($K_{OC}$)** : Not available.

## Section 12. Ecological information

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

| | DOT Classification | TDG Classification | Mexico Classification | ADR/RID | IMDG | IATA |
|---|---|---|---|---|---|---|
| **UN number** | Not regulated. | Not regulated. | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| **UN proper shipping name** | - | - | - | - | - | - |
| **Transport hazard class(es)** | - | - | - | - | - | - |
| **Packing group** | - | - | - | - | - | - |
| **Environmental hazards** | No. | No. | No. | No. | No. | No. |

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : **TSCA 4(a) proposed test rules**: Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

**TSCA 8(a) PAIR**: citronellal

**TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

**Clean Water Act (CWA) 307**: diethyl phthalate

**Clean Water Act (CWA) 311**: sodium hydroxide

**Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)** : Listed

**Clean Air Act Section 602 Class I Substances** : Not listed

# Section 15. Regulatory information

**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

No products were found.

**SARA 304 RQ** : Not applicable.

## SARA 311/312

**Classification** : Not applicable.

### Composition/information on ingredients

| Name | % | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|---|---|---|---|---|---|---|
| Alcohols, C9-11, ethoxylated | ≤3 | No. | No. | No. | Yes. | No. |

## State regulations

**Massachusetts** : None of the components are listed.

**New York** : None of the components are listed.

**New Jersey** : None of the components are listed.

**Pennsylvania** : None of the components are listed.

### California Prop. 65

**WARNING:** This product contains less than 0.1% of a chemical known to the State of California to cause cancer.

| Ingredient name | Cancer | Reproductive | No significant risk level | Maximum acceptable dosage level |
|---|---|---|---|---|
| 7-methyl-3-methyleneocta-1,6-diene | Yes. | No. | - | - |

## International regulations

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### Montreal Protocol (Annexes A, B, C, E)

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

## Inventory list

**Australia** : Not determined.

**Canada** : Not determined.

**China** : Not determined.

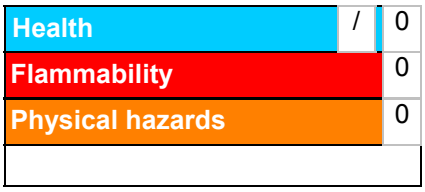
**Europe** : Not determined.

# Section 15. Regulatory information

| | | |
|---|---|---|
| **Japan** | : | **Japan inventory (ENCS)**: Not determined.<br>**Japan inventory (ISHL)**: Not determined. |
| **Malaysia** | : | Not determined. |
| **New Zealand** | : | Not determined. |
| **Philippines** | : | Not determined. |
| **Republic of Korea** | : | Not determined. |
| **Taiwan** | : | Not determined. |
| **Thailand** | : | Not determined. |
| **Turkey** | : | Not determined. |
| **United States** | : | Not determined. |
| **Viet Nam** | : | Not determined. |

# Section 16. Other information

## Hazardous Material Information System (U.S.A.)




**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 and the associated label are not required on SDSs or products leaving a facility 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 trademark and service mark of the American Coatings Association, Inc.**

**The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.**

## National Fire Protection Association (U.S.A.)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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.**

## Procedure used to derive the classification

| Classification | Justification |
|---|---|
| Not classified. | |

## History

| | | |
|---|---|---|
| **Date of printing** | : | 7/24/2017 |
| **Date of issue/Date of revision** | : | 7/21/2017 |
| **Date of previous issue** | : | No previous validation |
| **Version** | : | 1 |

# Section 16. Other information

**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 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

**References** : Not available.

**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.**

# PURELL® Advanced Hand Sanitizer Foam

Version 1.0 SDS Number: 400000000442 Revision Date: 04/09/2019

## SECTION 1. IDENTIFICATION

Product name : PURELL® Advanced Hand Sanitizer Foam

**Manufacturer or supplier's details**

Company name of supplier : GOJO Industries, Inc.

Address : One GOJO Plaza, Suite 500
Akron, Ohio 44311

Telephone : 1 (330) 255-6000

Emergency telephone number : CHEMTREC 1-800-424-9300
CHEMTREC +1-703-527-3887: Outside USA & CANADA

**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 elements**

Hazard pictograms :

Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P280 Wear eye protection/ face protection.
**Response:**
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.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.
**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**

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous components**

| Chemical name | CAS-No. | Concentration (%) |
|---|---|---|
| Ethyl Alcohol | 64-17-5 | >= 50 - < 70 |
| Isopropyl Alcohol | 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.
If symptoms persist, call a physician.

In case of skin contact : Wash with water and soap as a precaution.
Get medical attention if irritation develops and persists.

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.

Seek medical advice.

| | | |
|---|---|---|
| If swallowed | : | Do NOT induce vomiting.<br>Rinse mouth with water.<br>Obtain medical attention. |
| 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 protective clothing |

## SECTION 5. FIREFIGHTING MEASURES

| | | |
|---|---|---|
| Suitable extinguishing media | : | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Unsuitable extinguishing media | : | High volume water jet |
| Specific hazards during firefighting | : | Do not use a solid water stream as it may scatter and spread fire.<br>Cool closed containers exposed to fire with water spray.<br>Flash back possible over considerable distance.<br>May form explosive mixtures in air.<br>Exposure to decomposition products may be a hazard to health.<br>Carbon oxides<br>Silicon oxides |
| Hazardous combustion products | : | Carbon oxides<br>Silicon oxides |
| Specific extinguishing methods | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.<br>Use water spray to cool unopened containers. |
| Further information | : | Collect contaminated fire extinguishing water separately. This must not be discharged into drains.<br>Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Special protective equipment for firefighters | : | In the event of fire, wear self-contained breathing apparatus.<br>Use personal protective equipment. |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

| | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Use personal protective equipment.<br>Ensure adequate ventilation.<br>Remove all sources of ignition.<br>Evacuate personnel to safe areas.<br>Keep people away from and upwind of spill/leak.<br>Material can create slippery conditions. |

| | | |
|---|---|---|
| Environmental precautions | : | Discharge into the environment must be avoided.<br>Prevent further leakage or spillage if safe to do so.<br>Retain and dispose of contaminated wash water.<br>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.<br>Soak up with inert absorbent material.<br>Suppress (knock down) gases/vapours/mists with a water spray jet.<br>Keep in suitable, closed containers for disposal.<br>Clean contaminated floors and objects thoroughly while observing environmental regulations. |

## SECTION 7. HANDLING AND STORAGE

| | | |
|---|---|---|
| Advice on safe handling | : | For personal protection see section 8.<br>Keep away from heat.<br>Use with local exhaust ventilation.<br>Avoid contact with eyes. |
| Conditions for safe storage | : | Take measures to prevent the build up of electrostatic charge.<br>Keep in properly labelled containers.<br>Keep container tightly closed in a dry and well-ventilated place.<br>Store in accordance with the particular national regulations. |

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

| Components | CAS-No. | Value type (Form of exposure) | Control parameters / Permissible concentration | Basis |
|---|---|---|---|---|
| Ethyl Alcohol | 64-17-5 | TWA | 1,000 ppm<br>1,900 mg/m3 | NIOSH REL |
| | | TWA | 1,000 ppm<br>1,900 mg/m3 | OSHA Z-1 |
| | | STEL | 1,000 ppm | ACGIH |
| Isopropyl Alcohol | 67-63-0 | TWA | 200 ppm | ACGIH |
| | | STEL | 400 ppm | ACGIH |
| | | TWA | 400 ppm<br>980 mg/m3 | NIOSH REL |
| | | ST | 500 ppm<br>1,225 mg/m3 | NIOSH REL |
| | | TWA | 400 ppm<br>980 mg/m3 | OSHA Z-1 |

**Biological occupational exposure limits**

| Components | CAS-No. | Control parameters | Biological specimen | Sampling time | Permissible concentration | Basis |
|---|---|---|---|---|---|---|

| | | | | | | |
|---|---|---|---|---|---|---|
| Isopropyl Alcohol | 67-63-0 | Acetone | Urine | End of shift at end of workweek | 40 mg/l | ACGIH BEI |

**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection
Remarks : No special protective equipment required.

Eye protection : Wear face-shield and protective suit for abnormal processing problems.

Skin and body protection : No special measures necessary provided product is used correctly.

Protective measures : Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
Ensure that eye flushing systems and safety showers are located close to the working place.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.
Avoid contact with eyes.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Colour : clear, colourless, yellow

Odour : like fruit

Odour Threshold : No data available

pH : 6 - 9, (20 °C)

Melting point/freezing point : No data available

Initial boiling point and boiling range : 74.00 °C

Flash point : 27.00 °C

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Flammability (liquids) :

Upper explosion limit : No data available

| | | |
|---|---|---|
| Lower explosion limit | : | No data available |
| Vapour pressure | : | No data available |
| Relative vapour density | : | No data available |
| Density | : | 0.8730 g/cm3 |
| Solubility(ies)<br>Water solubility | : | soluble |
| Partition coefficient: n-octanol/water | : | Not applicable |
| Auto-ignition temperature | : | No data available |
| Thermal decomposition | : | The substance or mixture is not classified self-reactive. |
| Viscosity<br>Viscosity, kinematic | : | 10 - 20 mm2/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 | : | Vapours may form explosive mixture with air. |
| Conditions to avoid | : | Heat, flames and sparks. |
| Incompatible materials | : | Strong oxidizing agents<br>Flammable solids<br>Water-reactive substances |
| Hazardous decomposition products | : | No hazardous decomposition products are known. |

## SECTION 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**
Inhalation
Eye contact
Skin contact

**Acute toxicity**
Not classified based on available information.

**Components:**

**Ethyl Alcohol:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat): > 5,000 mg/kg |
| Acute inhalation toxicity | : | LC50 (Rat): 124.7 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour |

**Isopropyl Alcohol:**

| | | |
|---|---|---|
| Acute oral toxicity | : | LD50 (Rat): > 5,000 mg/kg |
| Acute inhalation toxicity | : | LC50 (Rat): 72.6 mg/l<br>Exposure time: 4 h<br>Test atmosphere: vapour |
| Acute dermal toxicity | : | LD50 (Rat): > 5,000 mg/kg |

**Skin corrosion/irritation**

Not classified based on available information.

**Components:**

**Ethyl Alcohol:**
Species: Rabbit
Method: OECD Test Guideline 404
Result: No skin irritation

**Isopropyl Alcohol:**
Species: Rabbit
Result: No skin irritation

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Components:**

**Ethyl Alcohol:**
Species: Rabbit
Result: Irritation to eyes, reversing within 21 days
Method: OECD Test Guideline 405

**Isopropyl Alcohol:**
Species: Rabbit
Result: Irritation to eyes, reversing within 21 days

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

**Components:**

**Ethyl Alcohol:**
Test Type: Local lymph node assay (LLNA)
Exposure routes: Skin contact
Species: Mouse
Result: negative

**Isopropyl Alcohol:**

Test Type: Buehler Test
Exposure routes: Skin contact
Species: Guinea pig
Method: OECD Test Guideline 406
Result: negative

**Germ cell mutagenicity**

Not classified based on available information.

**Components:**

**Ethyl Alcohol:**

| | | |
|---|---|---|
| Genotoxicity in vitro | : | Test Type: In vitro mammalian cell gene mutation test<br>Result: negative |
| Genotoxicity in vivo | : | Test Type: Rodent dominant lethal test (germ cell) (in vivo)<br>Test species: Mouse<br>Application Route: Ingestion<br>Result: negative |

**Isopropyl Alcohol:**

| | | |
|---|---|---|
| Genotoxicity in vitro | : | Test Type: Bacterial reverse mutation assay (AMES)<br>Result: negative |
| Genotoxicity in vivo | : | Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)<br>Test species: Mouse<br>Application Route: Intraperitoneal injection<br>Result: negative |

**Carcinogenicity**

Not classified based on available information.

**Components:**

**Isopropyl Alcohol:**
Species: Rat
Application Route: inhalation (vapour)
Exposure time: 104 weeks
Method: OECD Test Guideline 451
Result: negative

| | |
|---|---|
| **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. |
| **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. |

**Reproductive toxicity**

Not classified based on available information.

**Components:**

**Ethyl Alcohol:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Mouse
Application Route: Ingestion
Method: OECD Test Guideline 416
Result: negative

**Isopropyl Alcohol:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat
Application Route: Ingestion
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Result: negative

**STOT - single exposure**

Not classified based on available information.

**Components:**

**Isopropyl Alcohol:**

Assessment: May cause drowsiness or dizziness.

**STOT - repeated exposure**

Not classified based on available information.

**Repeated dose toxicity**

**Components:**

**Ethyl Alcohol:**

Species: Rat
NOAEL: 2,400 mg/kg
Application Route: Ingestion
Exposure time: 2 y

**Isopropyl Alcohol:**

Species: Rat
NOAEL: 5000 ppm
Application Route: inhalation (vapour)
Exposure time: 104 w
Method: OECD Test Guideline 413

**Aspiration toxicity**

Not classified based on available information.

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

**Components:**

**Ethyl Alcohol:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Pimephales promelas (fathead minnow)): > 1,000 mg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 1,000 mg/l<br>Exposure time: 48 h |
| Toxicity to algae | : | EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l<br>Exposure time: 72 h<br>Method: OECD Test Guideline 201 |
| Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) | : | NOEC (Daphnia magna (Water flea)): 9.6 mg/l<br>Exposure time: 9 d |
| Toxicity to bacteria | : | EC50 (Photobacterium phosphoreum): 32.1 mg/l<br>Exposure time: 0.25 h |

**Isopropyl Alcohol:**

| | | |
|---|---|---|
| Toxicity to fish | : | LC50 (Pimephales promelas (fathead minnow)): 10,000 mg/l<br>Exposure time: 96 h |
| Toxicity to daphnia and other aquatic invertebrates | : | EC50 (Daphnia magna (Water flea)): > 10,000 mg/l<br>Exposure time: 24 h |
| Toxicity to bacteria | : | EC50 (Pseudomonas putida): > 1,050 mg/l<br>Exposure time: 16 h |

**Persistence and degradability**

**Components:**

**Ethyl Alcohol:**

| | | |
|---|---|---|
| Biodegradability | : | Result: Readily biodegradable.<br>Biodegradation: 84 %<br>Exposure time: 20 d |

**Isopropyl Alcohol:**

| | | |
|---|---|---|
| Biodegradability | : | Result: rapidly degradable |

**Bioaccumulative potential**

**Components:**

**Ethyl Alcohol:**

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | log Pow: -0.35 |

**Isopropyl Alcohol:**

| | | |
|---|---|---|
| Partition coefficient: n-octanol/water | : | log Pow: 0.05 |

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**Product:**

| | |
|---|---|
| Regulation | 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances |
| Remarks | This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). |

## SECTION 13. DISPOSAL CONSIDERATIONS

**Disposal methods**

| | | |
|---|---|---|
| Waste from residues | : | Dispose of in accordance with local regulations. |
| Contaminated packaging | : | Dispose of as unused product.<br>Empty containers should be taken to an approved waste handling site for recycling or disposal. |

## SECTION 14. TRANSPORT INFORMATION

**International Regulation**

**IATA-DGR**

| | | |
|---|---|---|
| UN/ID No. | : | UN 1987 |
| Proper shipping name | : | Alcohols, n.o.s.<br>(Ethanol, Propan-2-ol) |
| Class | : | 3 |
| Packing group | : | III |
| Packing instruction (cargo aircraft) | : | 366 |
| Packing instruction (passenger aircraft) | : | 355 |

**IMDG-Code**

| | | |
|---|---|---|
| UN number | : | UN 1987 |
| Proper shipping name | : | ALCOHOLS, N.O.S.<br>(Ethanol, Propan-2-ol) |
| Class | : | 3 |
| Packing group | : | III |
| Labels | : | 3 |
| EmS Code | : | F-E, S-D |
| Marine pollutant | : | no |

**National Regulations**

**49 CFR**

| | | |
|---|---|---|
| UN/ID/NA number | : | UN 1987 |
| Proper shipping name | : | Alcohols, n.o.s. |
| Class | : | 3 |
| Packing group | : | III |
| ERG Code | : | 127 |
| Marine pollutant | : | no |

## SECTION 15. REGULATORY INFORMATION

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**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.

**SARA 313** : The following components are subject to reporting levels established by SARA Title III, Section 313:

| | | |
|---|---|---|
| Isopropyl Alcohol | 67-63-0 | 3.4103 % |

**Clean Air Act**

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

| | | |
|---|---|---|
| Ethyl Alcohol | 64-17-5 | 65.2821 % |
| Isopropyl Alcohol | 67-63-0 | 3.4103 % |

This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

**Clean Water Act**

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**US State Regulations**

**Massachusetts Right To Know**

| | | |
|---|---|---|
| Ethyl Alcohol | 64-17-5 | 50 - 70 % |
| Isopropyl Alcohol | 67-63-0 | 1 - 5 % |

**Pennsylvania Right To Know**

| | | |
|---|---|---|
| Ethyl Alcohol | 64-17-5 | 50 - 70 % |
| Water (Aqua) | 7732-18-5 | 20 - 30 % |
| Isopropyl Alcohol | 67-63-0 | 1 - 5 % |

**New Jersey Right To Know**

| | | |
|---|---|---|
| Ethyl Alcohol | 64-17-5 | 50 - 70 % |
| Water (Aqua) | 7732-18-5 | 20 - 30 % |
| Isopropyl Alcohol | 67-63-0 | 1 - 5 % |
| PEG-12 Dimethicone | 68937-54-2 | 1 - 5 % |

**California Prop 65** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**The components of this product are reported in the following inventories:**

| | | |
|---|---|---|
| TSCA | : | On TSCA Inventory |
| AICS | : | On the inventory, or in compliance with the inventory |
| DSL | : | On the inventory, or in compliance with the inventory |
| ENCS | : | On the inventory, or in compliance with the inventory |
| ISHL | : | On the inventory, or in compliance with the inventory |
| KECI | : | On the inventory, or in compliance with the inventory |
| PICCS | : | On the inventory, or in compliance with the inventory |
| IECSC | : | On the inventory, or in compliance with the inventory |
| NZIoC | : | On the inventory, or in compliance with the inventory |

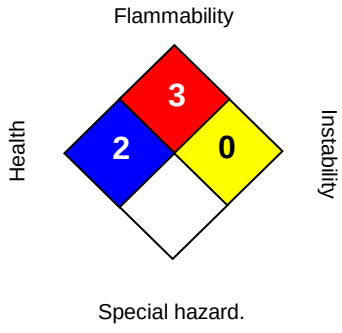
**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (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

Revision Date : 04/09/2019

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.

# PURELL® Professional HEALTHY SOAP™ Mild Foam

Version 1.0 SDS Number: 400000005351 Revision Date: 05/01/2017

## SECTION 1. IDENTIFICATION

Product name : PURELL® Professional HEALTHY SOAP™ Mild Foam

**Manufacturer or supplier's details**

Company name of supplier : GOJO Industries, Inc.

Address : One GOJO Plaza, Suite 500
Akron, Ohio 44311

Telephone : 1 (330) 255-6000

Emergency telephone number : 1-800-424-9300 CHEMTREC

**Recommended use of the chemical and restrictions on use**

Recommended use : Skin-care

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**

Eye irritation : Category 2B

**GHS label elements**

Signal word : Warning

Hazard statements : H320 Causes eye irritation.

Precautionary statements : **Response:**
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.

**Other hazards**

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Hazardous components**

| Chemical name | CAS-No. | Concentration (%) |
|---|---|---|
| Sodium Laureth Sulfate | 68585-34-2 | >= 1 - < 5 |

## SECTION 4. FIRST AID MEASURES

| | | |
|---|---|---|
| General advice | : | In the case of accident or if you feel unwell, seek medical advice immediately.<br>When symptoms persist or in all cases of doubt seek medical advice. |
| If inhaled | : | If inhaled, remove to fresh air.<br>If symptoms persist, call a physician. |
| In case of skin contact | : | Wash with water and soap as a precaution.<br>Get medical attention if irritation develops and persists. |
| In case of eye contact | : | Immediately flush eye(s) with plenty of water.<br>If easy to do, remove contact lens, if worn.<br>Seek medical advice. |
| If swallowed | : | If swallowed, DO NOT induce vomiting.<br>Rinse mouth with water.<br>Obtain medical attention. |
| Most important symptoms and effects, both acute and delayed | : | Causes eye irritation. |
| Protection of first-aiders | : | First Aid responders should pay attention to self-protection and use the recommended protective clothing |

## SECTION 5. FIREFIGHTING MEASURES

| | | |
|---|---|---|
| Suitable extinguishing media | : | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| Unsuitable extinguishing media | : | None known. |
| Hazardous combustion products | : | Sulphur oxides<br>Carbon oxides<br>Nitrogen oxides (NOx)<br>Metal oxides |
| Specific extinguishing methods | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |

Use water spray to cool unopened containers.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters : 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 : Use personal protective equipment.
Ensure adequate ventilation.
Evacuate personnel to safe areas.
Material can create slippery conditions.

Environmental precautions : Discharge into the environment must be avoided.
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 : Contain spillage, and then collect 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).
Keep in suitable, closed containers for disposal.
Clean contaminated floors and objects thoroughly while observing environmental regulations.

## SECTION 7. HANDLING AND STORAGE

Advice on safe handling : For personal protection see section 8.
Do not swallow.
Avoid contact with eyes.
Keep container closed when not in use.

Conditions for safe storage : Keep in properly labelled containers.
Keep container tightly closed in a dry and well-ventilated place.
Store in accordance with the particular national regulations.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Components with workplace control parameters**

Contains no substances with occupational exposure limit values.

**Personal protective equipment**

Respiratory protection : No personal respiratory protective equipment normally

required.

| | | |
|---|---|---|
| Eye protection | : | No special measures necessary provided product is used correctly.<br>Wear face-shield and protective suit for abnormal processing problems. |
| Skin and body protection | : | No special measures necessary provided product is used correctly. |
| Protective measures | : | Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.<br>Ensure that eye flushing systems and safety showers are located close to the working place. |
| Hygiene measures | : | Handle in accordance with good industrial hygiene and safety practice.<br>Avoid contact with eyes. |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|---|---|
| Appearance | : | liquid |
| Colour | : | clear, colourless, light yellow |
| Odour | : | like soap |
| Odour Threshold | : | No data available |
| pH | : | 5.3 - 6.7, (20 °C) |
| Solidification / Setting point | : | 0.80 °C |
| Initial boiling point and boiling range | : | 98 °C |
| Flash point | : | > 100 °C |
| Evaporation rate | : | No data available |
| Flammability (solid, gas) | : | Not applicable |
| Upper explosion limit | : | No data available |
| Lower explosion limit | : | No data available |
| Vapour pressure | : | No data available |
| Relative vapour density | : | No data available |
| Density | : | 1.008 g/cm3 |
| Solubility(ies) | | |

| | | |
|---|---|---|
| Water solubility | : | soluble |
| Partition coefficient: n-octanol/water | : | Not applicable |
| Auto-ignition temperature | : | not determined |
| Thermal decomposition | : | The substance or mixture is not classified self-reactive. |
| Viscosity | | |
| Viscosity, kinematic | : | 10 - 20 mm2/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 | : | No dangerous reaction known under conditions of normal use. |
| Incompatible materials | : | Strong oxidizing agents |
| Hazardous decomposition products | : | No hazardous decomposition products are known. |

## SECTION 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Acute toxicity**

Not classified based on available information.

**Product:**

Acute oral toxicity : Acute toxicity estimate : > 5,000 mg/kg
Method: Calculation method

**Components:**

**Sodium Laureth Sulfate:**

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

**Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Assessment: Not irritating when applied to human skin.

Result: No skin irritation

**Components:**

**Sodium Laureth Sulfate:**
Result: Skin irritation

**Serious eye damage/eye irritation**

Causes eye irritation.

**Product:**

Result: Mild eye irritation

**Components:**

**Sodium Laureth Sulfate:**
Result: Eye irritation
Remarks: Severe eye irritation

**Respiratory or skin sensitisation**

Skin sensitisation: Not classified based on available information.
Respiratory sensitisation: Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

| | |
|---|---|
| **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. |
| **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. |
| **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. |

**Reproductive toxicity**

Not classified based on available information.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Components:**

**Sodium Laureth Sulfate:**

Repeated dose toxicity - Assessment : Causes serious eye irritation.

**Aspiration toxicity**

Not classified based on available information.

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

No data available

**Persistence and degradability**

**Components:**

**Sodium Laureth Sulfate:**

Biodegradability : Result: Readily biodegradable.

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

**Other adverse effects**

No data available

**Product:**

| | |
|---|---|
| Regulation | 40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances |
| Remarks | This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B). |

## 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.

## SECTION 14. TRANSPORT INFORMATION

**International Regulation**

**IATA-DGR**

Not regulated as a dangerous good

**IMDG-Code**
Not regulated as a dangerous good
**National Regulations**

**49 CFR**
Not regulated as a dangerous good

## SECTION 15. REGULATORY INFORMATION

**EPCRA - Emergency Planning and Community Right-to-Know Act**

**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** : Acute Health Hazard

**SARA 302** : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**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.

**Clean Air Act**
This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).
This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).
This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

**Clean Water Act**
This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.
This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.
This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

**Pennsylvania Right To Know**

| | | |
|---|---|---|
| Water (Aqua) | 7732-18-5 | 90 - 100 % |

**New Jersey Right To Know**

| | | |
|---|---|---|
| Water (Aqua) | 7732-18-5 | 90 - 100 % |
| Sodium Laureth Sulfate | 68585-34-2 | 1 - 5 % |

**California Prop 65** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**The components of this product are reported in the following inventories:**

| | | |
|---|---|---|
| CH INV | : | On the inventory, or in compliance with the inventory |
| TSCA | : | On TSCA Inventory |
| DSL | : | All components of this product are on the Canadian DSL. |
| AICS | : | On the inventory, or in compliance with the inventory |
| NZIoC | : | On the inventory, or in compliance with the inventory |
| ENCS | : | On the inventory, or in compliance with the inventory |
| ISHL | : | On the inventory, or in compliance with the inventory |
| KECI | : | On the inventory, or in compliance with the inventory |
| PICCS | : | On the inventory, or in compliance with the inventory |
| IECSC | : | On the inventory, or in compliance with the inventory |

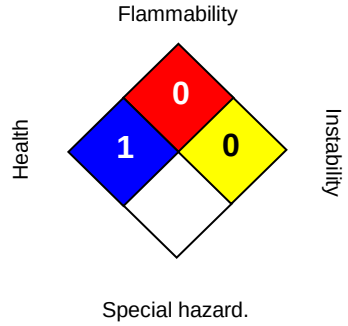
**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

## SECTION 16. OTHER INFORMATION

**Further information**

**NFPA:**




**HMIS III:**

| | |
|---|---|
| HEALTH | 1 |
| FLAMMABILITY | 0 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date : 05/01/2017

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 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.

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# SAFETY DATA SHEET

Quat-Stat SC

## Section 1. Identification

**GHS product identifier** : Quat-Stat SC

**Other means of identification** : Not available.

**Product type** : Liquid.

**Relevant identified uses of the substance or mixture and uses advised against**

Not applicable.

**Supplier's details** : Betco Corporation
1001 Brown Avenue
Toledo, OH 43607
www.betco.com
888-462-3826

**Emergency telephone number (with hours of operation)** : Chemtrec 800-424-9300 (24 Hour)

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).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 nonpesticide chemicals. Please read complete product label.

**Classification of the substance or mixture** : FLAMMABLE LIQUIDS - Category 3
SKIN CORROSION/IRRITATION - Category 1
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
CARCINOGENICITY - Category 1B

**GHS label elements**

**Hazard pictograms** :

**Signal word** : Danger

**Hazard statements** : Flammable liquid and vapor.
Causes severe skin burns and eye damage.
May cause cancer.(Previous statements per OSHA)
Corrosive. Causes irreversible eye damage and skin burns.
Harmful if swallowed and/or if absorbed through the skin.
(Previous statements per EPA)

**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. Wear protective gloves: < 1 hour (breakthrough time): butyl rubber. Wear eye or face protection: Recommended: splash goggles. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating, lighting and all material-handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Wash hands thoroughly after handling.

# Section 2. Hazards identification

**Response** : IF exposed or concerned: Get medical attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. 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. Immediately call a POISON CENTER or physician.

**Storage** : Store locked up. Store in a well-ventilated place. Keep cool.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazards not otherwise classified** : None known.

# Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Other means of identification** : Not available.

**CAS number/other identifiers**

**CAS number** : Not applicable.

**Product code** : 340

| Ingredient name | % | CAS number |
|---|---|---|
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | ≥5 - <10 | 68424-85-1 |
| decyldimethyloctylammonium chloride | ≥5 - <8 | 32426-11-2 |
| Alcohols, C12-15, ethoxylated | ≥5 - <10 | 68131-39-5 |
| Ethyl alcohol | ≥3 - <5 | 64-17-5 |
| didecyldimethylammonium chloride | ≥3 - <5 | 7173-51-5 |
| tetrasodium ethylene diamine tetraacetate | ≥3 - <5 | 64-02-8 |
| dimethyldioctylammonium chloride | ≥1 - <3 | 5538-94-3 |

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.**

**Occupational exposure limits, if available, are listed in Section 8.**

# 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. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

# Section 4. First aid measures

**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. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Loosen tight clothing such as a collar, tie, belt or waistband.

## Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact** : Causes serious eye damage. (Per OSHA) Causes irreversible eye damage. (Per EPA)

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Causes severe burns. (Per OSHA) Causes skin burns. Harmful if absorbed through the skin. (Per EPA)

**Ingestion** : No known significant effects or critical hazards. (Per OSHA) Harmful if swallowed. (Per EPA)

### 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** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**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)**

# Section 5. Fire-fighting measures

## Extinguishing media

**Suitable extinguishing media** : Use dry chemical, $CO_2$, water spray (fog) or foam.

**Unsuitable extinguishing media** : Do not use water jet.

# Section 5. Fire-fighting measures

**Specific hazards arising from the chemical** : Flammable liquid and vapor. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

**Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
halogenated compounds
metal oxide/oxides

**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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**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.

# Section 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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. Use spark-proof tools and explosion-proof equipment. 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. Use spark-proof tools and explosion-proof equipment. 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.

# Section 7. Handling and storage

## Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use

# Section 7. Handling and storage

explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from acids. Separate from oxidizing materials. 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.

# Section 8. Exposure controls/personal protection

## Control parameters

### Occupational exposure limits

| Ingredient name | Exposure limits |
|---|---|
| Ethyl alcohol | **ACGIH TLV (United States, 4/2014).**<br>STEL: 1000 ppm 15 minutes.<br>**OSHA PEL 1989 (United States, 3/1989).**<br>TWA: 1000 ppm 8 hours.<br>TWA: 1900 mg/m³ 8 hours.<br>**NIOSH REL (United States, 10/2013).**<br>TWA: 1000 ppm 10 hours.<br>TWA: 1900 mg/m³ 10 hours.<br>**OSHA PEL (United States, 2/2013).**<br>TWA: 1000 ppm 8 hours.<br>TWA: 1900 mg/m³ 8 hours. |

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

**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. Recommended: splash goggles

### Skin protection

## Section 8. Exposure controls/personal 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. < 1 hour (breakthrough time): butyl rubber

**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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

**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.

**Personal protective equipment (Pictograms)** :

## Section 9. Physical and chemical properties

**Appearance**

**Physical state** : Liquid.

**Color** : Purple.

**Odor** : Characteristic.

**Odor threshold** : Not available.

**pH** : 12 to 13.5

**Melting point** : Not available.

**Boiling point** : Not available.

**Flash point** : Closed cup: 51.66°C (125°F)

**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** : 1.00912

**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** : Not available.

# Section 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.

**Conditions to avoid** : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

**Incompatible materials** : Reactive or incompatible with the following materials:
acids
oxidizing materials

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# Section 11. Toxicological information

## Information on toxicological effects

### Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | LD50 Oral | Rat | 426 mg/kg | - |
| Alcohols, C12-15, ethoxylated | LD50 Oral | Rat | 2 g/kg | - |
| Ethyl alcohol | LC50 Inhalation Vapor | Rat | 124700 mg/m³ | 4 hours |
| | LD50 Oral | Rat | 7 g/kg | - |
| didecyldimethylammonium chloride | LD50 Oral | Rat | 84 mg/kg | - |
| tetrasodium ethylene diamine tetraacetate | LD50 Oral | Rat | 10 g/kg | - |

### Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---|---|---|---|---|
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | Skin - Severe irritant | Rabbit | - | 25 milligrams | - |
| Ethyl alcohol | Eyes - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 0.066666667 minutes 100 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 100 microliters | - |
| | Eyes - Severe irritant | Rabbit | - | 500 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 400 milligrams | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 milligrams | - |
| didecyldimethylammonium chloride | Skin - Severe irritant | Rabbit | - | 500 milligrams | - |
| tetrasodium ethylene diamine tetraacetate | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 milligrams | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 | - |

# Section 11. Toxicological information

| | | | | | |
|---|---|---|---|---|---|
| | | | | milligrams | |

## Sensitization

Not available.

## Mutagenicity

Not available.

## Carcinogenicity

Not available.

## Classification

| Product/ingredient name | OSHA | IARC | NTP |
|---|---|---|---|
| Ethyl alcohol | - | 1 | - |

## 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** : Routes of entry anticipated: Oral, Dermal, Inhalation.

## Potential acute health effects

**Eye contact** : Causes serious eye damage. (Per OSHA) Causes irreversible eye damage. (Per EPA)

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Causes severe burns. (Per OSHA) Causes skin burns. Harmful if absorbed through the skin. (Per EPA)

**Ingestion** : No known significant effects or critical hazards. (Per OSHA) Harmful if swallowed. (Per EPA)

## Symptoms related to the physical, chemical and toxicological characteristics

**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

## Delayed and immediate effects and also chronic effects from short and long term exposure

### Short term exposure

**Potential immediate effects** : Not available.

# Section 11. Toxicological information

**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** : May cause cancer. Risk of cancer depends on duration and level of exposure.

**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 | 2590.4 mg/kg |
| Dermal | 3291.6 mg/kg |
| Inhalation (vapors) | 281.6 mg/l |

# Section 12. Ecological information

**Toxicity**

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | Acute EC50 670 µg/l Fresh water | Algae - Chlorella pyrenoidosa - Exponential growth phase | 96 hours |
| | Acute EC50 5.9 ppb Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 64 ppb Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| | Chronic NOEC 4.15 ppb Marine water | Daphnia - Daphnia magna | 21 days |
| | Chronic NOEC 32.2 ppb | Fish - Pimephales promelas | 34 days |
| Alcohols, C12-15, ethoxylated | Acute EC50 0.7 mg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| | Acute EC50 0.39 mg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute EC50 302 µg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 1400 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Chronic NOEC 1 mg/l Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| | Chronic NOEC 83 µg/l Fresh water | Daphnia - Daphnia magna - Neonate | 21 days |
| Ethyl alcohol | Acute EC50 17.921 mg/l Marine water | Algae - Ulva pertusa | 96 hours |
| | Acute EC50 2000 µg/l Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 25500 µg/l Marine water | Crustaceans - Artemia franciscana - Larvae | 48 hours |
| | Acute LC50 42000 µg/l Fresh water | Fish - Oncorhynchus mykiss | 4 days |
| | Chronic NOEC 4.995 mg/l Marine water | Algae - Ulva pertusa | 96 hours |
| | Chronic NOEC 0.375 ul/L Fresh water | Fish - Gambusia holbrooki - Larvae | 12 weeks |
| didecyldimethylammonium chloride | Acute EC50 110 µg/l Fresh water | Algae - Chlorella pyrenoidosa - Exponential growth phase | 72 hours |

# Section 12. Ecological information

| | | | |
|---|---|---|---|
| | Acute EC50 14.22 ppb Fresh water | Algae - Pseudokirchneriella subcapitata | 96 hours |
| | Acute EC50 18 ppb Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 39 µg/l Marine water | Crustaceans - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling) | 48 hours |
| | Acute LC50 0.01 µg/l Fresh water | Fish - Acipenser transmontanus - Larvae | 96 hours |
| | Chronic NOEC 25 µg/l Fresh water | Algae - Pseudokirchneriella subcapitata - Exponential growth phase | 72 hours |
| | Chronic NOEC 125 µg/l Fresh water | Daphnia - Daphnia magna | 21 days |
| tetrasodium ethylene diamine tetraacetate | Acute LC50 486000 µg/l Fresh water | Fish - Lepomis macrochirus | 96 hours |
| dimethyldioctylammonium chloride | Acute EC50 0.1 ppm Fresh water | Daphnia - Daphnia magna | 48 hours |
| | Acute LC50 0.7 ppm Fresh water | Fish - Oncorhynchus mykiss | 96 hours |

## Persistence and degradability

Not available.

## Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| Alcohols, C12-15, ethoxylated | 2.03 to 6.24 | 237 | low |
| Ethyl alcohol | -0.35 | - | low |
| tetrasodium ethylene diamine tetraacetate | 5.01 | 1.8 | low |

## Mobility in soil

**Soil/water partition coefficient ($K_{OC}$)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

| | DOT Classification | TDG Classification | Mexico Classification | ADR/RID | IMDG | IATA |
|---|---|---|---|---|---|---|
| **UN number** | | | | 2920 | 2920 | 2920 |
| **UN proper shipping name** | Compounds, Cleaning Liquid (Ground Transporation Only) | Not available. | Compounds, Cleaning Liquid (Ground Transportation Only) | Corrosive Liquid, Flammable, N. O.S. (Dialkyldimethylammonium chloride, Ethanol) | Corrosive Liquid, Flammable, N. O.S. (Dialkyldimethylammonium chloride, Ethanol) | Corrosive Liquid, Flammable, N. O.S. (Dialkyldimethylammonium chloride, Ethanol) |
| **Transport hazard class(es)** | | | | 8 (3)  | 8 (3)  | 8 (3)  |
| **Packing group** | II | II | II | II | II | II |
| **Environmental hazards** | No. | No. | No. | | | No. |
| **Additional information** | **Limited quantity** Yes. | **Explosive Limit and Limited Quantity Index** 1 | - | Tunnel code (D/E) | | |

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : **TSCA 4(a) proposed test rules**: Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

**TSCA 8(a) PAIR**: 2-(4-tert-butylbenzyl)propionaldehyde

**TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

Not determined.

**Clean Water Act (CWA) 311**: sodium hydroxide

**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

# Section 15. Regulatory information

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

**DEA List II Chemicals (Essential Chemicals)** : Not listed

## SARA 302/304

### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

## SARA 311/312

**Classification** : Fire hazard
Immediate (acute) health hazard
Delayed (chronic) health hazard

### Composition/information on ingredients

| Name | % | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|---|---|---|---|---|---|---|
| Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides | ≥5 - <10 | No. | No. | No. | Yes. | No. |
| decyldimethyloctylammonium chloride | ≥5 - <8 | No. | No. | No. | Yes. | Yes. |
| Alcohols, C12-15, ethoxylated | ≥5 - <10 | No. | No. | No. | Yes. | No. |
| Ethyl alcohol | ≥3 - <5 | Yes. | No. | No. | Yes. | No. |
| didecyldimethylammonium chloride | ≥3 - <5 | No. | No. | No. | Yes. | No. |
| tetrasodium ethylene diamine tetraacetate | ≥3 - <5 | Yes. | No. | No. | Yes. | No. |
| dimethyldioctylammonium chloride | ≥1 - <3 | No. | No. | No. | Yes. | Yes. |

## State regulations

**Massachusetts** : The following components are listed: ETHYL ALCOHOL

**New York** : None of the components are listed.

**New Jersey** : The following components are listed: ETHYL ALCOHOL; ALCOHOL

**Pennsylvania** : The following components are listed: DENATURED ALCOHOL

## International regulations

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### Montreal Protocol (Annexes A, B, C, E)

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

## International lists

### National inventory

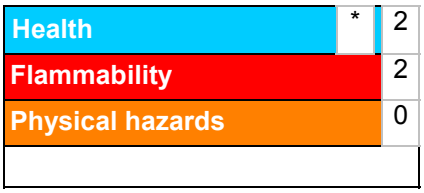
**Australia** : Not determined.

# Section 15. Regulatory information

| | | |
|---|---|---|
| **Canada** | : | Not determined. |
| **China** | : | Not determined. |
| **Europe** | : | Not determined. |
| **Japan** | : | Not determined. |
| **Malaysia** | : | Not determined. |
| **New Zealand** | : | Not determined. |
| **Philippines** | : | Not determined. |
| **Republic of Korea** | : | Not determined. |
| **Taiwan** | : | Not determined. |

# Section 16. Other information

## Hazardous Material Information System (U.S.A.)




**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 SDSs 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.)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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.**

## Procedure used to derive the classification

| Classification | Justification |
|---|---|
| Flam. Liq. 3, H226<br>Skin Corr. 1, H314<br>Eye Dam. 1, H318<br>Carc. 1B, H350 | On basis of test data<br>On basis of test data<br>On basis of test data<br>Calculation method |

## History

| | | |
|---|---|---|
| **Date of printing** | : | 6/11/2015. |
| **Date of issue/Date of revision** | : | 6/11/2015. |
| **Date of previous issue** | : | 4/13/2015. |
| **Version** | : | 3.01 |

# Section 16. Other information

**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

**References** : Not available.

**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.**

# SAFETY DATA SHEET

## QUIK-CARE FOAM WATERLESS HAND SANITIZER

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

| | | |
|---|---|---|
| Product name | : | QUIK-CARE FOAM WATERLESS HAND SANITIZER |
| Other means of identification | : | not applicable |
| Recommended use | : | Skin antiseptic |
| Restrictions on use | : | Reserved for industrial and professional use. |
| Product dilution information | : | Product is sold ready to use. |
| Company | : | Ecolab Inc.<br>370 N. Wabasha Street<br>St. Paul, Minnesota USA 55102<br>1-800-352-5326 |
| Emergency telephone | : | 1-800-328-0026 (US/Canada), 1-651-222-5352 (outside US) |
| Issuing date | : | 04/28/2014 |

## SECTION 2. HAZARDS IDENTIFICATION

**GHS Classification**

| | | |
|---|---|---|
| Flammable liquids | : | Category 3 |
| Eye irritation | : | Category 2A |

**GHS Label element**

Hazard pictograms :

| | | |
|---|---|---|
| Signal Word | : | Warning |
| Hazard Statements | : | Flammable liquid and vapor.<br>Causes serious eye irritation. |
| Precautionary Statements | : | **Prevention:**<br>Keep away from heat/sparks/open flames/hot surfaces. - No smoking.<br>Keep container tightly closed.<br>**Response:**<br>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. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.<br>**Storage:**<br>Store in a well-ventilated place. Keep cool.<br>**Disposal:**<br>Dispose of contents/ container to an approved waste disposal plant. |
| **Other hazards** | : | None known. |

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| | | |
|---|---|---|
| Pure substance/mixture | : | Mixture |

| Chemical Name | CAS-No. | Concentration (%) |
|---|---|---|
| ethanol | 64-17-5 | 60 - 100 |
| Farnesol | 4602-84-0 | 0.1 - 1 |

## SECTION 4. FIRST AID MEASURES

| | | |
|---|---|---|
| In case of eye contact | : | Rinse with water. |
| In case of skin contact | : | Rinse with water. |
| If swallowed | : | Rinse mouth. Get medical attention if symptoms occur. |
| If inhaled | : | Get medical attention if symptoms occur. |
| Protection of first-aiders | : | No special precautions are necessary for first aid responders. |
| Notes to physician | : | Treat symptomatically. |

**See toxicological information (Section 11)**

## SECTION 5. FIRE-FIGHTING MEASURES

| | | |
|---|---|---|
| Suitable extinguishing media | : | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
| Unsuitable extinguishing media | : | High volume water jet |
| Specific hazards during fire fighting | : | Fire Hazard<br>Keep away from heat and sources of ignition.<br>Flash back possible over considerable distance.<br>Beware of vapors accumulating to form explosive concentrations.<br>Vapors can accumulate in low areas. |
| Hazardous combustion products | : | Carbon oxides |
| Special protective equipment for fire-fighters | : | Use personal protective equipment. |
| Specific extinguishing methods | : | Use water spray to cool unopened containers. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes. |

## SECTION 6. ACCIDENTAL RELEASE MEASURES

| | | |
|---|---|---|
| Personal precautions, protective equipment and emergency procedures | : | Remove all sources of ignition. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8. |
| Environmental precautions | : | Do not allow contact with soil, surface or ground water. |
| Methods and materials for containment and cleaning up | : | Eliminate all ignition sources if safe to do so. Stop leak if safe to do so. Contain spillage, and then collect 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). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach |

a waterway.

## SECTION 7. HANDLING AND STORAGE

| | | |
|---|---|---|
| Advice on safe handling | : | Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from fire, sparks and heated surfaces. |
| Conditions for safe storage | : | Keep away from heat and sources of ignition. Keep in a cool, well-ventilated place. Keep away from oxidizing agents. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers. |
| Storage temperature | : | 0 °C to 30 °C |

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Ingredients with workplace control parameters**

| Ingredients | CAS-No. | Form of exposure | Permissible concentration | Basis |
|---|---|---|---|---|
| ethanol | 64-17-5 | TWA | 1,000 ppm | ACGIH |
| | | TWA | 1,000 ppm<br>1,900 mg/m3 | NIOSH REL |
| | | TWA | 1,000 ppm<br>1,900 mg/m3 | OSHA Z1 |

Engineering measures : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**Personal protective equipment**

| | | |
|---|---|---|
| Eye protection | : | No special protective equipment required. |
| Hand protection | : | No special protective equipment required. |
| Skin protection | : | No special protective equipment required. |
| Respiratory protection | : | No personal respiratory protective equipment normally required. |
| Hygiene measures | : | No specific measures identified. |

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

| | | |
|---|---|---|
| Appearance | : | liquid |
| Color | : | clear, colorless |
| Odor | : | alcoholic |
| pH | : | 6.0 - 9.0, 100 % |
| Flash point | : | 26 °C closed cup |
| Odor Threshold | : | no data available |
| Melting point/freezing point | : | no data available |
| Initial boiling point and boiling range | : | no data available |

| | | |
|---|---|---|
| Evaporation rate | : | no data available |
| Flammability (solid, gas) | : | no data available |
| Upper explosion limit | : | no data available |
| Lower explosion limit | : | no data available |
| Vapor pressure | : | no data available |
| Relative vapor density | : | no data available |
| Relative density | : | 0.858 - 0.883 |
| Water solubility | : | soluble |
| Solubility in other solvents | : | no data available |
| Partition coefficient: n-octanol/water | : | no data available |
| Autoignition temperature | : | no data available |
| Thermal decomposition | : | no data available |
| Viscosity, kinematic | : | no data available |
| Explosive properties | : | no data available |
| Oxidizing properties | : | no data available |
| Molecular weight | : | no data available |
| VOC | : | no data available |

## SECTION 10. STABILITY AND REACTIVITY

| | | |
|---|---|---|
| Chemical stability | : | Stable under normal conditions. |
| Possibility of hazardous reactions | : | No dangerous reaction known under conditions of normal use. |
| Conditions to avoid | : | Heat, flames and sparks. |
| Incompatible materials | : | None known. |
| Hazardous decomposition products | : | Carbon oxides |

## SECTION 11. TOXICOLOGICAL INFORMATION

| | | |
|---|---|---|
| Information on likely routes of exposure | : | Inhalation, Eye contact, Skin contact |

**Potential Health Effects**

| | | |
|---|---|---|
| Eyes | : | Causes serious eye irritation. |
| Skin | : | Health injuries are not known or expected under normal use. |
| Ingestion | : | Health injuries are not known or expected under normal use. |
| Inhalation | : | Health injuries are not known or expected under normal use. |
| Chronic Exposure | : | Health injuries are not known or expected under normal use. |

**Experience with human exposure**

| | | |
|---|---|---|
| Eye contact | : | Redness, Pain, Irritation |
| Skin contact | : | No symptoms known or expected. |
| Ingestion | : | No symptoms known or expected. |
| Inhalation | : | No symptoms known or expected. |

**Toxicity**

| | | |
|---|---|---|
| Acute oral toxicity | : | Acute toxicity estimate : > 5,000 mg/kg |
| Acute inhalation toxicity | : | no data available |
| Acute dermal 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 |

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. |
| 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 effects | : | no data available |
| Germ cell mutagenicity | : | no data available |
| Teratogenicity | : | no data available |
| STOT-single exposure | : | no data available |
| STOT-repeated exposure | : | no data available |
| Aspiration toxicity | : | no data available |

**Ingredients**

| | | |
|---|---|---|
| Acute inhalation toxicity | : | ethanol<br>4 h LC50 rat: 117 mg/l |

**Ingredients**

| | | |
|---|---|---|
| Acute dermal toxicity | : | ethanol<br>LD50 rabbit: 15,800 mg/kg<br><br>Farnesol<br>LD50 rat: > 15,000 mg/kg |

## SECTION 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

| | | |
|---|---|---|
| Environmental Effects | : | This product has no known ecotoxicological effects. |

**Product**

| | | |
|---|---|---|
| Toxicity to fish | : | no data available |
| Toxicity to daphnia and other aquatic invertebrates | : | no data available |
| Toxicity to algae | : | no data available |

**Ingredients**

| | | |
|---|---|---|
| Toxicity to fish | : | ethanol<br>96 h LC50 Fish: 11,000 mg/l<br><br>Farnesol<br>96 h LC50: 1.82 mg/l |

**Persistence and degradability**

no data available

**Bioaccumulative potential**

no data available

**Mobility in soil**

no data available

**Other adverse effects**

no data available

## SECTION 13. DISPOSAL CONSIDERATIONS

| | | |
|---|---|---|
| Disposal methods | : | Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility. |
| Disposal considerations | : | Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. |
| RCRA - Resource Conservation and Recovery Authorization Act Hazardous waste | : | D001 (Ignitable) |

## SECTION 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

**Land transport (DOT)**

| | | |
|---|---|---|
| UN number | : | 1170 |
| Description of the goods | : | Ethanol solutions |
| Class | : | 3 |
| Packing group | : | III |
| Environmentally hazardous | : | no |

**Sea transport (IMDG/IMO)**

| | | |
|---|---|---|
| UN number | : | 1170 |
| Description of the goods | : | ETHANOL SOLUTION |
| Class | : | 3 |
| Packing group | : | III |
| 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** : Acute Health Hazard
Fire Hazard

**SARA 302** : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313** : 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.

**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:**

**1907/2006 (EU)** :
not determined

**Switzerland. New notified substances and declared preparations** :
not determined

**United States TSCA Inventory** :
On TSCA Inventory

**Canadian Domestic Substances List (DSL)** :
All components of this product are on the Canadian DSL.

**Australia Inventory of Chemical Substances (AICS)** :
On the inventory, or in compliance with the inventory

**New Zealand. Inventory of Chemical Substances** :
On the inventory, or in compliance with the inventory

**Japan. ENCS - Existing and New Chemical Substances Inventory** :
not determined

**Japan. ISHL - Inventory of Chemical Substances (METI)** :
not determined

**Korea. Korean Existing Chemicals Inventory (KECI)** :

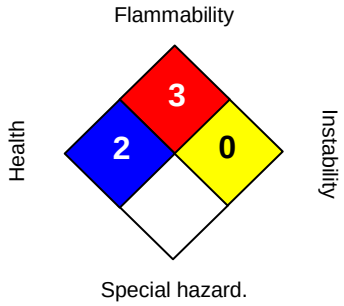
On the inventory, or in compliance with the inventory

**Philippines Inventory of Chemicals and Chemical Substances (PICCS)** :
not determined

**China. Inventory of Existing Chemical Substances in China (IECSC)** :
On the inventory, or in compliance with the inventory

## SECTION 16. OTHER INFORMATION

**NFPA:**




**HMIS III:**

| | |
|---|---|
| HEALTH | 2 |
| FLAMMABILITY | 3 |
| PHYSICAL HAZARD | 0 |

0 = not significant, 1 =Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

| | | |
|---|---|---|
| Issuing date | : | 04/28/2014 |
| Version | : | 1.0 |
| Prepared by | : | Regulatory Affairs |

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

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.

# Shaw® R2X® Carpet Stain & Soil Remover

# SAFETY DATA SHEET

## SECTION 1 – CHEMICAL AND COMPANY IDENTIFICATION:

Product Name: R2X Carpet Stain & Soil Remover RTU Date Printed: 12/3/2015
Product Use/Class: General Purpose Fiber/Fabric Cleaning Solution Product ID: S R2X


Supplier: Shield Industries, Inc. Manufacturer: Shield Industries, Inc.
Address: 131 Smokehill Lane Address: 131 Smokehill Lane
Woodstock, GA 30188 - USA Woodstock, GA 30188 - USA
Telephone: 770-517-6869 24 Hour Emergency Hotline: 800-535-5053


## SECTION 2 – HAZARD IDENTIFICATION:

| | | |
|---|---|---|
| **Physical hazards:** | Not applicable | ---------- |
| **Health hazards:** | Acute Toxicity | Category 4 |
| | Skin sensitization | Category 2 |
| | Eye sensitization | Category 2 |
| | Specific target organ toxicity, single exposure | Category 3 |

**Environmental hazards:** Toxic to aquatic life with long lasting effects. (H411)
**OSHA defined hazards:** Not classified.

**Label elements:**

**Signal word:** Caution

**Hazard statement**
Harmful if swallowed. (H302)
Causes skin irritation. (H315)
May cause an allergic skin reaction. (H317)
Causes serious eye irritation. (H319)
May cause respiratory irritation. (H335)

**Precautionary statements:**

**Prevention:** Wear protective gloves/protective clothing/eye protection/face protection. (P280)

Wash hands and exposed skin thoroughly after handing. (P264)
Avoid breathing dust/fume/gas/mist/vapours/spray. (P261)

**Response:** IF SWALLOWED: Get medical advice/attention. (P301 + P313)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305 + P351 + P338)

**Storage:** Keep out of reach of children. (P102)

**Disposal:** Dispose of contents/container to an approved waste disposal plant. (P501)

**Hazard(s) not otherwise classified (HNOC):** None.

**Supplemental information:** None.

---

## SECTION 3 COMPOSITION/INFORMATION ON COMPONENTS

| COMPONENTS | CAS NUMBER | % |
|---|---|---|
| Water | 7732-18-5 | 90 - 96 % |
| Ethylene Glycol n-Butyl ether | 111-76-2 | 1 - 2 % |
| Ethylenediaminetetracetic Acid, Sodium Salt | 64-02-8 | < 1 % |
| Proprietary polymer(s) | Trade Secret* | < 1 % |
| Nonionic surfactant(s) | Trade Secret* | < 1 % |
| Proprietary preservative | Trade Secret* | 0.01 - 0.05 % |
| Fluorinated anionic surfactants | Trade Secret* | 0.05 - 0.10 % |
| Fragrance Compound | N/A (Mixture) | 0.01 - 0.05 % |

* Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

**Additional Information:**

Substances in the product which may present a health or environmental hazard, or which have been assigned occupational exposure limits, are detailed below:

None

---

## SECTION 4 FIRST AID MEASURES

**Inhalation:** Move person to fresh air and keep at rest in a position comfortable for breathing. If breathing is labored, administer oxygen. If systems persist, contact a POISON CENTER or doctor/physician.

**Skin contact:** If on skin, wash thoroughly with soap and water. If on clothes, remove clothing. Get medical attention if irritation or rash develops and persists.

**Eye contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Keep eyes wide open and continue rinsing. Get immediate medical attention.

**Ingestion:** Keep respiratory tract clear. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

**Most important symptoms/effects, acute and delayed:**

Causes eye irritation. May cause an allergic skin reaction. May cause respiratory irritation.

**Indication of immediate medical attention and special treatment needed:**

If ingested: Immediately seek medical attention. Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

**General information:**

Move affected persons from dangerous area. Do not leave victim unattended. Ensure that medical personnel are aware of the material(s) involved. Show this safety data sheet to the doctor in attendance.

---

## SECTION 5 FIRE FIGHTING MEASURES

**Suitable extinguishing media:**

Non-combustible. Use media appropriate for surrounding fire.

**Unsuitable extinguishing media:**

Do not use water jet.

**Specific hazards arising from the chemical:**

Combustion or thermal decomposition will evolve toxic and/or irritant vapours. Forms fumes of oxides of carbon, nitrogen, sulfur, phosphorus and toxic products such as hydrogen fluoride and other fluorinated compounds.

**Special protective equipment and precautions for firefighters:**

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and self-contained breathing apparatus (SCBA).

**Fire-fighting equipment/instructions:**

Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapour pressure build up.

**Specific methods:**

Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. In the event of fire and/or explosion do not breathe fumes.

**General fire hazards:**

None known.

---

## 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 get in eyes. Avoid skin contact. Do not breathe vapours. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.

**Environmental precautions:**

Avoid release to the environment. Avoid discharge into drains, water courses or onto the ground. Prevent further leakage or spillage if safe to do so. Inform appropriate managerial or supervisory personnel and authorities of all environmental releases.

**Methods and materials for containment and cleaning up:**

Contain spillages and then collect with sand, earth, diatomaceous earth, vermiculite, or any other suitable adsorbent material. Collect spillage. Transfer to a container for disposal or recovery. Following product recovery, flush area with water. If possible prevent water running into sewers. For waste disposal, see section 13 of the SDS.

---

## SECTION 7 HANDLING AND STORAGE

**Precautions for safe handling:**

Avoid contact with skin and eyes. Wear appropriate personal protective equipment. Smoking, eating and drinking should be prohibited in the application area. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. Use product in a well ventilated area only.

**Advice on protection against fire and explosion:**

None – Product is non-combustible

**Conditions for safe storage, including any incompatibilities:**

Keep container tightly closed in a dry and well-ventilated place. Keep cool. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Avoid storing in the presence of oxidizing or reducing agents. Protect from sunlight.

---

## SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

**Occupational exposure limits:**

**US. ACGIH Threshold Limit Values**

| Components | CAS | Type | Value |
|---|---|---|---|
| Ethylene glycol n-butyl ether | 111-76-2 | TWA | 5 ppm |

**Appropriate engineering controls:**

Not normally required.

**Individual protection measures, such as personal protective equipment:**

**Eye/face protection:**

Wear safety glasses with side shields (or goggles).

**Hand protection:**

Wear appropriate chemical resistant gloves (Butyl rubber, Neoprene, or Natural rubber). Check with protective equipment manufacturer's data.

**Skin protection/Other:**

Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

**Respiratory protection:**

Not normally required. If permissible levels are exceeded use NIOSH mechanical filter /organic vapor cartridge or an air-supplied respirator.

**Thermal hazards:**

Not normally required.

**General hygiene considerations:**

When using, do not eat, drink or 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.

**Environmental exposure controls:**

Do not allow to enter drains, sewers or waterways. Avoid release to the environment. Material is very toxic to aquatic life with long lasting effects.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Appearance:** | |
| **Physical state:** | Liquid |
| **Form:** | Liquid |
| **Color:** | **C**lear to slightly hazy. pale yellow color |
| **Odor:** | Characteristic, Mild, Fruity |
| **Odor threshold:** | Not available. |
| **pH:** | 8.0 – 9.0 |
| **Melting point/freezing point:** | Not available. |
| **Initial boiling point and boiling range** | 100 °C estimated |
| **Flash point:** | Non-combustible |
| **Evaporation rate:** | Aproximately 1 (water = 1) |
| **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. |
| **Relative Vapor density:** | Not available. |
| **Relative density:** | 1.00 +/- 0.02 |
| **Solubility (water):** | Soluble |
| **Partition coefficient (n-octanol/water):** | Not available. |
| **Auto-ignition temperature:** | Not applicable. |
| **Decomposition temperature:** | Not available. |
| **Viscosity (kinematic cSt @ 40 °C):** | Not available. |
| **Other information:** | None. |

## SECTION 10 STABILITY AND REACTIVITY

**Reactivity:**

The product is stable and non-reactive under normal ambient conditions of use, storage and transport.

**Chemical stability:**

Material is stable under normal conditions.

**Possibility of hazardous reactions:**

None anticipated.

**Conditions to avoid:**

Avoid contact with heat, ignition sources, and incompatible materials.

**Incompatible materials:**

Strong oxidizing or reducing agents.

**Hazardous decomposition products:**

At temperatures over 200 C, or under fire conditions, thermal decomposition will evolve toxic and irritant vapours. Forms: oxides of carbon, nitrogen, sulfur, phosphorus and toxic products such as hydrogen fluoride and other fluorinated organic compounds.

---

## SECTION 11 TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure:**

**Inhalation:** May cause mild irritation to respiratory tract.
**Skin contact:** May cause skin irritation and/or dermatitis.
**Eye contact:** Vapors may **c**ause irritation to the eyes

**Symptoms related to the physical, chemical and toxicological characteristics:**

May cause irritation of nose and throat. Eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and/or degreasing of skin.

**Information on toxicological effects:**

**Acute toxicity:**

| Components | CAS# | Test | Species | Test Results |
|---|---|---|---|---|
| Ethylene glycol n-Butyl ether | 111-76-2 | Acute Oral LD50 | Rat | 880 mg/kg |
| | | Acute Dermal LD50 | Rabbit | 1,060 mg/kg |
| | | Inhalation Risk | Rat | . 29 ppm (2 hr) |
| Nonionic surfactant(s) | ---------- | Acute Oral LD50 | Rat | >2000 mg/kg |
| | | Acute Dermal LD50 | Rabbit | >2000 mg/kg |
| Proprietary Preservative | ---------- | Acute Oral LD50 | Rat | 670 mg/kg |
| | | Acute Dermal LD50 | Rabbit | >2000 mg/kg |
| Fluorinated anionic surfactants | ---------- | Acute Oral LD50 | Rat | 500-2,000 mg/kg |

**Skin corrosion/irritation:** May cause skin irritation and/or dermatitis.

**Serious eye damage/eye irritation:** **C**auses serious eye irritation.

**Respiratory or skin sensitization:**

**Respiratory sensitization:** Vapours may cause irritation.
**Skin sensitization:** This product may cause an allergic skin reaction.

**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.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):**
Not listed.

**Repeated dose toxicity:**

| | |
|---|---|
| Component: | Ethylene glycol N-butyl ether |
| Species: | Rat |
| Application Route: | Oral |
| NOEL: | 250 mg/kg/day |
| Component: | Ethylene glycol N-butyl ether |
| Species: | Rat |
| Application Route: | Inhalation |
| NOEL: | 14 ppm |
| Component: | Ethylene glycol N-butyl ether |
| Species: | Rat |
| Application Route: | Dermal |
| NOEL: | <200 mg/kg/day |

**Specific target organ toxicity - single exposure:**
No data available.

**Teratogenicity:**
No data available.

**Aspiration hazard:**
No data available.

---

## SECTION 12 ECOLOGICAL INFORMATION

**Ecotoxicity:** Toxic to aquatic life with long lasting effects.

**Acute Toxicity:**

| Components/CAS | Test | Species | Test Results |
|---|---|---|---|
| Nonionic Surfactant(s)/ Trade Secret | Aquatic Fish LC50 | Rainbow trout | 5 - 8.5 mg/l, 96 hr. |
| | Aquatic Crustacea EC50 | Water flea (Daphnia magna) | 5.3 - 10 mg/l, 72 hr. |
| Fluorinated anionic Surfactants/ Trade Secret | Aquatic Fish LC50 | Zebra fish | 10 - 100 mg/l, 96 hr. |
| | Aquatic Crustacea EC50 | Water flea (Daphnia magna) | 10 - 100 mg/l, 24 hr. |
| | EC50 | Bacteria | <1,000 mg/l |

**Long Term Toxicity:**
No data available.

**Persistence and degradability:**

| | |
|---|---|
| Nonionic surfactant(s): | Readily biodegradable |
| Fluorinated anionic surfactants: | Not readily biodegradable. (<80%) |

**Bioaccumulative potential:**
No data available.

**Mobility in soil:**

No data available.

**Results of PBT and vPvB assessment:**

| | |
|---|---|
| Nonionic surfactant(s): | Not classified as PBT or vPvB. |
| Fluorinated anionic surfactants: | No data available. |

**Other adverse effects:**

None known.

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## SECTION 13 DISPOSAL CONSIDERATIONS

**Waste treatment/disposal instructions:**

Disposal should be in accordance with local, state, or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

**Waste from residues / unused products:**

Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company. Dispose of in accordance with local regulations.

**Contaminated packaging:**

Exercise caution as empty containers or liners may retain some product residues. Do not re-use empty containers. Do not burn, or use a cutting torch on, empty containers. Empty containers should be taken to an approved waste handling site for recycling or disposal.

---

## SECTION 14 TRANSPORT INFORMATION

**DOT**

**UN number:** Not applicable
**UN proper shipping name:** Cleaning compounds N.O.S.
**Transport hazard class(es):**
**Class:** Not applicable
**Subsidiary risk:** -
**Label(s):** Not applicable
**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.
**Environmental hazards:** No
**Special provisions:** None Assigned
**Packaging exceptions:**
None – Not classified as dangerous for transportation
**Packaging bulk:**
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:
Not applicable

**IATA**

**UN number:** Not applicable
**UN proper shipping name:** Cleaning compounds N.O.S.
**Transport hazard class(es):**
**Class** Not applicable
**Subsidiary risk** -

**Label(s)** Not applicable
**Packing group** Not applicable
**Environmental hazards** No
**ERG Code** Not applicable
**Special precautions for user:**
Read safety instructions, SDS and emergency procedures before handling. Read Safety instructions, SDS and emergency procedures before handling.

**Packaging bulk:**
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:
Not applicable

**IMDG**
**UN number:** Not applicable
**UN proper shipping name:** Cleaning compounds, n.o.s.
**Transport hazard class(es):**
**Class:** Not applicable
**Subsidiary risk:** -
**Label(s):** Not applicable
**Packing group:** Not applicable
**Environmental hazards:**
**Marine pollutant:** No
**Special precautions for user:**
Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

**Packaging bulk:**
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:
Not applicable

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## SECTION 15 REGULATORY INFORMATION

**US federal regulations:**
This product is not 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 or polymer exempt.

**TSCA Section 5 SNUR: (40 CFR 721.10536.**
The Fluorinated anionic surfactants in this product are subject to an action under this section.

**CERCLA Hazardous Substance List (40 CFR 302.4)**
No Listed materials.

**SARA 311/312 – Superfund Amendments and Reauthorization Act of 1986:**
**Hazard categories:**

| | |
|---|---|
| Immediate Hazard | Yes |
| Delayed Hazard | Yes |
| Fire Hazard | No |
| Sudden Release | No |
| Reactivity | No |

**SARA 313 – Toxic Chemicals (40 CFR 372):**
No Listed materials.

**SARA 302 Threshold Planning Quantity:**
Not regulated.

**Other federal regulations:**

**Clean Air Act (CAA) Ozone-Depletion Potential:**

This product neither contains, nor was manufactured with a Class I, or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App. A+B).

**US state regulations**

**U.S. California Proposition 65:**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive effects.

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## SECTION 16 OTHER INFORMATION

NFPA RATING: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0

HMIS RATING: HEALTH: 1 FLAMMABILITY: 0 REACTIVITY: 0
Personal protection rating to be supplied by user depending on use conditions.

PREPARATION INFORMATION:
DATE CREATED: 01/01/06 LAST REVISION: 10/22/2015
CREATED/REVISED BY: R. Lasnik

This information relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness. It is the user's responsibility to satisfy himself as to the suitability and completeness of this information for his own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement.

**End of SDS**

# SAFETY DATA SHEET

**Issuing Date** 25-Apr-2014 **Revision Date** 25-Apr-2014 **Revision Number** 0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier**

**Product Name** **"Sparkle" Glass Cleaner**

**Other means of identification**

**Synonyms** None

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Window/surface cleaner

**Uses advised against** No information available

**Details of the supplier of the safety data sheet**

**Supplier Address**
A.J. Funk and Co
1471 Timber Drive, Elgin, Illinois, 60123
US
Phone:8477416760
Fax:8477416767
Contact:
Contact Phone:8477416760
Emergency Phone: 8772253865

**Emergency telephone number**

**Company Emergency Phone Number** 8772253865

## 2. HAZARDS IDENTIFICATION

**Classification**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.122).

**GHS Label elements, including precautionary statements**

**Emergency Overview**

The product contains no substances which at their given concentration, are considered to be hazardous to health

**Appearance** Purple **Physical State** Liquid **Odor** Pleasant

**Precautionary Statements - Prevention**
Obtain special instructions before use

**Precautionary Statements - Response**
None

**Precautionary Statements - Storage**
None

**Precautionary Statements - Disposal**
None

**Hazards not otherwise classified (HNOC)**

• Not Applicable

**Unknown Toxicity**
0% of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

May cause slight eye irritation
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 |
|---|---|---|---|
| 2-Butoxyethanol | 111-76-2 | 5 - 10 | * |

* The exact percentage (concentration) of composition has been withheld as a trade secret

## 4. FIRST AID MEASURES

**First aid measures**

**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.

**Skin Contact** Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

**Inhalation** Move to fresh air. If symptoms persist, call a physician.

**Ingestion** Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

**Protection of First-aiders** 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/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**
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.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Avoid contact with eyes.

**Environmental precautions**

**Environmental Precautions** Refer to protective measures listed in Sections 7 and 8.

**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. Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep container tightly closed.

**Incompatible Products** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| 2-Butoxyethanol<br>111-76-2 | TWA: 20 ppm | TWA: 50 ppm<br>TWA: 240 mg/m$^3$<br>(vacated) TWA: 25 ppm<br>(vacated) TWA: 120 mg/m$^3$<br>(vacated) S* | IDLH: 700 ppm<br>TWA: 5 ppm<br>TWA: 24 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** No special protective equipment required.

**Skin and Body Protection** No special protective equipment required.

**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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical and Chemical Properties**

**Physical State** Liquid
**Appearance** Purple **Odor** Pleasant

| | | | |
|---|---|---|---|
| **Color** | No information available | **Odor Threshold** | No information available |

| Property | Values | Remarks/ Method |
|---|---|---|
| **pH** | 7 | None known |
| **Melting/freezing point** | No data available | None known |
| **Boiling point / boiling range** | 171 °C / 340 °F | None known |
| **Flash Point** | No data available | 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** | Completely soluble | 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.

**Hazardous Polymerization**
Hazardous polymerization does not occur.

**Conditions to avoid**
None known based on information supplied.

**Incompatible materials**
None known based on information supplied.

**Hazardous Decomposition Products**
Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

## Information on likely routes of exposure

**Product Information** Product does not present an acute toxicity hazard based on known or supplied information.

**Inhalation** Inhalation of vapors in high concentration may cause irritation of respiratory system.

**Eye Contact** May cause irritation.

**Skin Contact** Prolonged or repeated contact may dry skin and cause irritation.

**Ingestion** Not an expected route of exposure Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Component Information**

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|---|---|---|---|
| 2-Butoxyethanol<br>111-76-2 | = 470 mg/kg ( Rat ) | = 220 mg/kg ( Rabbit ) | = 450 ppm ( Rat ) 4 h |

## 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 |
|---|---|---|---|---|
| 2-Butoxyethanol<br>111-76-2 | A3 | Group 3 | | |

***ACGIH (American Conference of Governmental Industrial Hygienists)***
*A3 - Animal Carcinogen*
***IARC (International Agency for Research on Cancer)***
*Group 3 - Not Classifiable as to Carcinogenicity in Humans*

**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.

**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)**
5,222.00 mg/kg

**ATEmix (dermal)**
12,222.00 mg/kg (ATE)
**ATEmix (inhalation-dust/mist)**
16.70 mg/L
**ATEmix (inhalation-vapor)**
122.00 ATEmix

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**
The environmental impact of this product has not been fully investigated.

**Persistence and Degradability**
No information available.

**Bioaccumulation**
No information available.

| Chemical Name | Log Pow |
|---|---|
| 2-Butoxyethanol<br>111-76-2 | 0.81 |

**Other adverse effects**
No information available.

## 13. DISPOSAL CONSIDERATIONS

**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 in accordance with local regulations.

**California Hazardous Waste Codes** 561

## 14. TRANSPORT INFORMATION

**DOT** NOT REGULATED

**TDG** Not regulated

**MEX** Not regulated

**ICAO** Not regulated

**IATA** Not regulated

**IMDG/IMO** Not regulated

**RID** Not regulated

**ADR** Not regulated

**ADN** Not regulated

## 15. REGULATORY INFORMATION

### International 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

### 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 % |
|---|---|---|---|
| 2-Butoxyethanol - 111-76-2 | 111-76-2 | 5 - 10 | 1.0 |

**SARA 311/312 Hazard Categories**

| | |
|---|---|
| **Acute Health Hazard** | No |
| **Chronic Health Hazard** | No |
| **Fire Hazard** | No |
| **Sudden Release of Pressure Hazard** | No |
| **Reactive 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).

**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 |
|---|---|---|---|---|---|
| 2-Butoxyethanol<br>111-76-2 | X | X | X | X | X |

### International Regulations

**Mexico**

### National occupational exposure limits

| Component | Carcinogen Status | Exposure Limits |
|---|---|---|
| 2-Butoxyethanol<br>111-76-2 ( 5 - 10 ) | | Mexico: TWA 26 ppm<br>Mexico: TWA 120 mg/m$^3$<br>Mexico: STEL 75 ppm<br>Mexico: STEL 360 mg/m$^3$ |

*Mexico - Occupational Exposure Limits - Carcinogens*

**Canada**
**WHMIS Hazard Class**
Non-controlled

## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazard** 1 | **Flammability** 0 | **Instability** 0 | **Physical and Chemical Hazards** - |
| **HMIS** | **Health Hazard** 1 | **Flammability** 0 | **Physical Hazard** 0 | **Personal Protection** X |

**Prepared By**
Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

**Revision Date** 25-Apr-2014

**Revision Note** No information available

**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 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**

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# SAFETY DATA SHEET

Top Flite

## Section 1. Identification

**GHS product identifier** : Top Flite

**Other means of identification** : Not available.

**Product type** : Liquid.

**Relevant identified uses of the substance or mixture and uses advised against**

Not applicable.

**Supplier's details** : Betco Corporation
400 Van Camp Road
Toledo, Ohio 43402
www.betco.com
888-462-3826

**Emergency telephone number (with hours of operation)** : Chemtrec (800) 424-9300 24 hour

## Section 2. Hazards identification

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**Classification of the substance or mixture** : EYE IRRITATION - Category 2A

**GHS label elements**

**Hazard pictograms** :

**Signal word** : Warning

**Hazard statements** : Causes serious eye irritation.

**Precautionary statements**

**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. If eye irritation persists: Get medical attention.

**Storage** : Not applicable.

**Disposal** : Not applicable.

**Hazards not otherwise classified** : None known.

## Section 3. Composition/information on ingredients

**Substance/mixture** : Mixture

**Other means of identification** : Not available.

**CAS number/other identifiers**

**CAS number** : Not applicable.

**Product code** : 150

# Section 3. Composition/information on ingredients

| Ingredient name | % | CAS number |
|---|---|---|
| sodium dodecylbenzenesulfonate | ≥3 - <5 | 25155-30-0 |
| tetrasodium ethylene diamine tetraacetate | ≥3 - <5 | 64-02-8 |
| Alcohols, C9-11, ethoxylated | ≥1 - <3 | 68439-46-3 |

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.**

**Occupational exposure limits, if available, are listed in Section 8.**

# Section 4. First aid measures

## Description of necessary first aid measures

**Eye contact** : 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. Get medical attention.

**Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

**Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

## Most important symptoms/effects, acute and delayed

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

## Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

# Section 4. First aid measures

**Specific treatments** : No specific treatment.

**Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

**See toxicological information (Section 11)**

# Section 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
nitrogen oxides
sulfur oxides
metal oxide/oxides

**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.

# Section 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

**For emergency responders** : If specialized 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.

# Section 7. Handling and storage

## Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**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. 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.

# Section 8. Exposure controls/personal protection

## Control parameters

### Occupational exposure limits

None.

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

**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.

## 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.

## Section 8. Exposure controls/personal protection

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

**Appearance**

**Physical state** : Liquid.

**Color** : Clear. Green.

**Odor** : Minty.

**Odor threshold** : Not available.

**pH** : 10 to 11

**Melting point** : Not available.

**Boiling point** : Not available.

**Flash point** : Closed cup: Not applicable. [Product does not sustain combustion.]

**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** : 1.024

**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** : Not available.

## Section 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.

**Conditions to avoid** : No specific data.

**Incompatible materials** : No specific data.

**Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## Section 11. Toxicological information

**Information on toxicological effects**

**Acute toxicity**

# Section 11. Toxicological information

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|---|---|---|---|
| sodium dodecylbenzenesulfonate | LC50 Inhalation Dusts and mists | Rat | 310 mg/m³ | 4 hours |
| | LD50 Oral | Rat | 438 mg/kg | - |
| tetrasodium ethylene diamine tetraacetate | LD50 Oral | Rat | 10 g/kg | - |
| Alcohols, C9-11, ethoxylated | LD50 Dermal | Rabbit | 2 g/kg | - |
| | LD50 Oral | Rat | 1378 mg/kg | - |

## Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|---|---|---|---|---|
| sodium dodecylbenzenesulfonate | Eyes - Severe irritant | Rabbit | - | 24 hours 250 Micrograms | - |
| | Eyes - Severe irritant | Rabbit | - | 1 Percent | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 milligrams | - |
| tetrasodium ethylene diamine tetraacetate | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 milligrams | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 milligrams | - |

## Sensitization

Not available.

## Mutagenicity

Not available.

## Carcinogenicity

Not available.

## 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** : Routes of entry anticipated: Oral, Dermal.
Routes of entry not anticipated: Inhalation.

## Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : No known significant effects or critical hazards.

**Ingestion** : No known significant effects or critical hazards.

## Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : Adverse symptoms may include the following:
pain or irritation
watering
redness

# Section 11. Toxicological information

**Inhalation** : No specific data.

**Skin contact** : No specific data.

**Ingestion** : No specific data.

## 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

Not available.

# Section 12. Ecological information

## Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| sodium dodecylbenzenesulfonate | Acute EC50 29000 µg/l Fresh water | Algae - Chlorella pyrenoidosa - Exponential growth phase | 96 hours |
| | Acute EC50 7.81 mg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute EC50 0.15 ppm Fresh water | Daphnia - Daphnia pulex | 48 hours |
| | Acute IC50 112.4 mg/l | Algae - Pseudokirchneriella subcapitata - Exponential growth phase | 72 hours |
| | Acute LC50 1.18 ppm Fresh water | Fish - Lepomis macrochirus | 96 hours |
| tetrasodium ethylene diamine tetraacetate | Acute LC50 486000 µg/l Fresh water | Fish - Lepomis macrochirus | 96 hours |
| Alcohols, C9-11, ethoxylated | Acute EC50 5.36 mg/l Fresh water | Crustaceans - Ceriodaphnia dubia - Neonate | 48 hours |
| | Acute EC50 2686 µg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours |
| | Acute LC50 8500 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |

## Persistence and degradability

Not available.

## Bioaccumulative potential

# Section 12. Ecological information

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| sodium dodecylbenzenesulfonate | 1.96 | - | low |
| tetrasodium ethylene diamine tetraacetate | 5.01 | 1.8 | low |

**Mobility in soil**

**Soil/water partition coefficient ($K_{OC}$)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

# Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

| | DOT Classification | TDG Classification | Mexico Classification | ADR/RID | IMDG | IATA |
|---|---|---|---|---|---|---|
| **UN number** | Not regulated. | Not regulated. | Not regulated. | Not regulated. | Not regulated. | Not regulated. |
| **UN proper shipping name** | - | - | - | - | - | - |
| **Transport hazard class(es)** | - | - | - | - | - | - |
| **Packing group** | - | - | - | - | - | - |
| **Environmental hazards** | No. | No. | No. | No. | No. | No. |
| **Additional information** | **Reportable quantity** 29850.7 lbs / 13552.2 kg [3496.2 gal / 13234.6 L] Package sizes shipped in quantities less than the product reportable quantity are not subject to the RQ | - | - | - | - | - |

## Section 14. Transport information

| | | | | | | |
|---|---|---|---|---|---|---|
| | (reportable quantity) transportation requirements. | | | | | |

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

Not determined.

**Clean Water Act (CWA) 311**: sodium dodecylbenzenesulfonate; sodium hydroxide

**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**

No products were found.

**SARA 304 RQ** : Not applicable.

**SARA 311/312**

**Classification** : Immediate (acute) health hazard

**Composition/information on ingredients**

| Name | % | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|---|---|---|---|---|---|---|
| sodium dodecylbenzenesulfonate | ≥3 - <5 | No. | No. | No. | Yes. | No. |
| tetrasodium ethylene diamine tetraacetate | ≥3 - <5 | No. | No. | No. | Yes. | No. |
| Alcohols, C9-11, ethoxylated | ≥1 - <3 | No. | No. | No. | Yes. | No. |

**State regulations**

**Massachusetts** : The following components are listed: SODIUM DODECYLBENZENE SULFONATE

**New York** : The following components are listed: Sodium dodecylbenzene sulfonate; Dodecylbenzene sulfonate

**New Jersey** : The following components are listed: SODIUM DODECYLBENZENE SULFONATE; BENZENESULFONIC ACID, DODECYL-, SODIUM SALT

# Section 15. Regulatory information

**Pennsylvania** : The following components are listed: BENZENESULFONIC ACID, DODECYL-, SODIUM SALT

## International regulations

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### Montreal Protocol (Annexes A, B, C, E)

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

## International lists

### National inventory

**Australia** : Not determined.

**Canada** : Not determined.

**China** : Not determined.

**Europe** : Not determined.

**Japan** : **Japan inventory (ENCS)**: Not determined.
**Japan inventory (ISHL)**: Not determined.

**Malaysia** : Not determined.

**New Zealand** : Not determined.

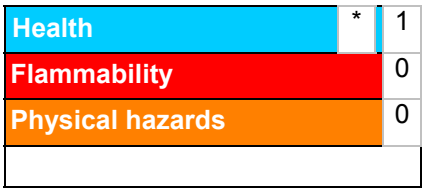
**Philippines** : Not determined.

**Republic of Korea** : Not determined.

**Taiwan** : Not determined.

# Section 16. Other information

## Hazardous Material Information System (U.S.A.)

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## National Fire Protection Association (U.S.A.)


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# Section 16. Other information



## Procedure used to derive the classification

| Classification | Justification |
|---|---|
| Eye Irrit. 2A, H319 | Expert judgment |

## History

**Date of printing** : 4/25/2017

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**Date of previous issue** : 3/19/2015

**Version** : 0.03

**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 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

**References** : Not available.

**Indicates information that has changed from previously issued version.**

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