

# SAFETY DATA SHEET

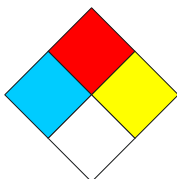


Container Size: Up to 32 fl. oz. (946 mL)

Larger than 32 fl. oz. (946 mL)

All Sizes

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



| HEALTH HAZARD |
|---------------|
| 4 EXTREME     |
| 3 SERIOUS     |
| 2 MODERATE    |
| 1 SLIGHT      |
| 0 MINIMAL     |

| FLAMMABILITY HAZARD |
|---------------------|
| 4 EXTREME           |
| 3 SERIOUS           |
| 2 MODERATE          |
| 1 SLIGHT            |
| 0 MINIMAL           |

| INSTABILITY HAZARD |
|--------------------|
| 4 EXTREME          |
| 3 SERIOUS          |
| 2 MODERATE         |
| 1 SLIGHT           |
| 0 MINIMAL          |

| SPECIFIC HAZARD |
|-----------------|
| OXIDIZER        |
| ACID            |
| ALKALI          |
| CORROSIVE       |
| Use NO WATER    |
| RADIATION       |

## Section 1. Identification

Product identifier(s) /  
Trademark(s) used on the  
label :  
Other means of  
identification :  
Part number :

### Recommended use and restrictions

Identified uses

Manufacturer/Supplier : Unelko Corporation  
14641 N 74th Street  
Scottsdale, AZ 85260 USA  
Fax: 1-480-483-7674  
Phone: 1-480-991-7272  
(8 AM to 5 PM – Monday-Friday – Arizona Time)

Emergency telephone  
number (with hours of  
operation) : ChemTel  
1-813-248-0585  
1-800-255-3924

## 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 : FLAMMABLE LIQUIDS - Category 2

### GHS label elements

Hazard pictograms :



Signal word : **Warning**

## Section 2. Hazards identification

|                                         |                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Hazard statements</b>                | : Highly flammable liquid and vapor.                                                                                                                                                                                                                                                                                                         |
| <b><u>Precautionary statements</u></b>  |                                                                                                                                                                                                                                                                                                                                              |
| <b>Prevention</b>                       | : Wear protective gloves. Wear eye or face protection. Keep away from heat, sparks, open flames and hot surfaces. - 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. |
| <b>Response</b>                         | : IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.                                                                                                                                                                                                                                     |
| <b>Storage</b>                          | : Store in a well-ventilated place. Keep cool.                                                                                                                                                                                                                                                                                               |
| <b>Disposal</b>                         | : Dispose of contents and container in accordance with all local, regional, national and international regulations.                                                                                                                                                                                                                          |
| <b>Hazards not otherwise classified</b> | : None known.                                                                                                                                                                                                                                                                                                                                |

## Section 3. Composition/information on ingredients

|                                      |                  |
|--------------------------------------|------------------|
| <b>Substance/mixture</b>             | : Mixture        |
| <b>Other means of identification</b> | : Not available. |

### CAS number/other identifiers

|                     |                   |
|---------------------|-------------------|
| <b>CAS number</b>   | : Not applicable. |
| <b>Product code</b> | : Not available.  |

| <b>Ingredient name</b> | <b>%</b> | <b>CAS number</b> |
|------------------------|----------|-------------------|
| Ethyl Alcohol          | 94 - 96  | 64-17-5           |
| Dimethylsilicone Fluid | 4 - 6    | 94363-18-5        |

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

### General description of necessary first aid measures for mixtures of chemical products

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye contact</b>  | : Avoid contact with eyes. <b>If in contact with eyes:</b> In case of contact with eyes, rinse immediately with plenty of water. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. If irritation persists, get medical attention.                                                                                                                                                                                               |
| <b>Inhalation</b>   | : Avoid breathing vapor or mist. <b>If inhaled:</b> In case of accident by inhalation, remove victim to fresh air and keep at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. 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. |
| <b>Skin contact</b> | : Avoid contact with skin. <b>If in contact with skin:</b> In case of contact, flush skin with water. Get medical attention if symptoms occur.                                                                                                                                                                                                                                                                                                                    |

## Section 4. First aid measures

- Ingestion** : Do not ingest. **If ingested:** If swallowed, do not induce vomiting. 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. 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.

### 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 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.

### 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. 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 dry chemical, CO<sub>2</sub>, water spray (fog) or foam.  
**Unsuitable extinguishing media** : Do not use water jet or water-based fire extinguishers.

- Specific hazards arising from the chemical** : Highly flammable liquid and vapor. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

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

- Special protective actions for fire-fighters** : Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

## Section 5. Fire-fighting measures

- 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. 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

- 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). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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 explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. 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.

## Section 7. Handling and storage

**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. Eliminate all ignition sources. 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   | <b>ACGIH TLV (United States, 3/2012).</b><br>STEL: 1000 ppm 15 minutes.<br><b>NIOSH REL (United States, 6/2009).</b><br>TWA: 1900 mg/m <sup>3</sup> 10 hours.<br>TWA: 1000 ppm 10 hours.<br><b>OSHA PEL (United States, 6/2010).</b><br>TWA: 1900 mg/m <sup>3</sup> 8 hours.<br>TWA: 1000 ppm 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.

### 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. 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.

### 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** : Use a properly fitted, air-purifying or supplied air 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.

## Section 9. Physical and chemical properties

### Appearance

|                                              |                                             |
|----------------------------------------------|---------------------------------------------|
| Physical state                               | : Liquid. [Clear.]                          |
| Color                                        | : Clear.                                    |
| Odor                                         | : Ethanol.                                  |
| Odor threshold                               | : Not applicable.                           |
| pH                                           | : 3 [Conc. (% w/w): 1%]                     |
| Melting point                                | : Not applicable.                           |
| Boiling point                                | : 78°C (172.4°F)                            |
| Flash point                                  | : Closed cup: 10°C (50°F) [Pensky-Martens.] |
| Burning time                                 | : Not applicable.                           |
| Burning rate                                 | : Not applicable.                           |
| Evaporation rate                             | : Not available.                            |
| Flammability (solid, gas)                    | : Not applicable.                           |
| Lower and upper explosive (flammable) limits | : Not available.                            |
| Vapor pressure                               | : 4.4 kPa (33 mm Hg) [room temperature]     |
| Vapor density                                | : >1 [Air = 1]                              |
| Relative density                             | : 0.792                                     |
| Solubility                                   | : Soluble in water.                         |
| Solubility in water                          | : 100 g/l                                   |
| Partition coefficient: n-octanol/water       | : Not available.                            |
| Auto-ignition temperature                    | : Not available.                            |
| Decomposition temperature                    | : Not available.                            |
| SADT                                         | : Not available.                            |
| Viscosity                                    | : Water.                                    |

## 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. Do not allow vapor to accumulate in low or confined areas. |
| Incompatible materials             | : Reactive or incompatible with the following materials: oxidizing materials, acids and alkalis.                                                                                                                                     |
| 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     |
|-------------------------|------------------------------------|------------|------------------------------------|--------------|
| Ethyl Alcohol           | LC50 Inhalation Vapor<br>LD50 Oral | Rat<br>Rat | 124700 mg/m <sup>3</sup><br>7 g/kg | 4 hours<br>- |

#### Irritation/Corrosion

| Product/ingredient name | Result                                                                       | Species                    | Score       | Exposure                                    | Observation |
|-------------------------|------------------------------------------------------------------------------|----------------------------|-------------|---------------------------------------------|-------------|
| Ethyl Alcohol           | Eyes - Moderate irritant<br>Skin - Moderate irritant<br>Eyes - Mild irritant | Rabbit<br>Rabbit<br>Rabbit | -<br>-<br>- | 100 µL<br>24 hours 20 mg<br>24 hours 500 mg | -<br>-<br>- |

#### Sensitization

There is no applicable data.

#### Mutagenicity

There is no applicable data.

#### Carcinogenicity

There is no applicable data.

#### Reproductive toxicity

There is no applicable data.

#### Teratogenicity

There is no applicable data.

#### Specific target organ toxicity (single exposure)

| Name          | Category   | Route of exposure | Target organs    |
|---------------|------------|-------------------|------------------|
| Ethyl Alcohol | Category 3 | Not applicable.   | Narcotic effects |

#### Specific target organ toxicity (repeated exposure)

There is no applicable data.

#### Aspiration hazard

There is no applicable data.

**Information on the likely routes of exposure** : Routes of entry anticipated: Oral, Dermal, 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

**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.

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

## Section 11. Toxicological information

### Short term exposure

**Potential immediate effects** : No known significant effects or critical hazards.

**Potential delayed effects** : No known significant effects or critical hazards.

### Long term exposure

**Potential immediate effects** : No known significant effects or critical hazards.

**Potential delayed effects** : No known significant effects or critical hazards.

### Potential chronic health effects

**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

There is no applicable data.

## Section 12. Ecological information

### Toxicity

| Product/ingredient name | Result                               | Species                                     | Exposure |
|-------------------------|--------------------------------------|---------------------------------------------|----------|
| 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 franchiscana - 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 µl/L Fresh water  | Fish - Gambusia holbrooki - Larvae          | 12 weeks |

### Persistence and degradability

There is no data available.

### Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF | Potential |
|-------------------------|--------------------|-----|-----------|
| Ethyl Alcohol           | -0.32              | -   | low       |

### Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : 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 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 empty 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                                                                       | IMDG                                                                                     | IATA                                                                                       |
|-----------------------------------|------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <b>Additional information</b>     |                                                                                          |                                                                                          |                                                                                            |
| <b>UN number</b>                  | UN1170                                                                                   | UN1170                                                                                   | UN1170                                                                                     |
| <b>UN proper shipping name</b>    | ETHANOL, SOLUTIONS                                                                       | ETHANOL, SOLUTIONS                                                                       | ETHANOL, SOLUTIONS                                                                         |
| <b>Transport hazard class(es)</b> | 3<br> | 3<br> | 3<br> |
| <b>Packing group</b>              | II                                                                                       | II                                                                                       | II                                                                                         |
| <b>Environmental hazards</b>      | 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 73/78 and the IBC Code** : Not available.

## Section 15. Regulatory information

**U.S. Federal regulations** : TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
United States inventory (TSCA 8b): Not determined.

**Clean Air Act Section 112** : Not listed

**(b) Hazardous Air Pollutants (HAPs)**

**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** : Fire hazard

#### Composition/information on ingredients

| Name          | %        | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|---------------|----------|-------------|----------------------------|----------|---------------------------------|---------------------------------|
| Ethyl Alcohol | 60 - 100 | Yes.        | No.                        | No.      | Yes.                            | No.                             |

### 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; diethoxy(dimethyl)silane

**Pennsylvania** : The following components are listed: Ethyl Alcohol

### California Prop. 65

No products were found.

### International regulations

**International lists** : **Australia inventory (AICS)**: Not determined.  
**China inventory (IECSC)**: Not determined.  
**Japan inventory**: Not determined.  
**Korea inventory**: Not determined.  
**Malaysia Inventory (EHS Register)**: Not determined.  
**New Zealand Inventory of Chemicals (NZIoC)**: Not determined.  
**Philippines inventory (PICCS)**: Not determined.  
**Taiwan inventory (CSNN)**: Not determined.

**Chemical Weapons Convention List Schedule I Chemicals** : Not listed

## Section 15. Regulatory information

**Chemical Weapons Convention List Schedule II Chemicals** : Not listed

**Chemical Weapons Convention List Schedule III Chemicals** : Not listed

## Section 16. Other information

### History

**Date of issue** : 15/03/2015

**Date of previous issue** : 15/06/2013

**Version** : 2

**Revised Section(s)** : Not applicable.

**Original SDS Prepared By** : KMK Regulatory Services Inc.

**References** : Guide to The Globally Harmonized System of Classification and Labeling of Chemicals (GHS): <http://www.osha.gov/dsg/hazcom/ghs.html>  
Modification of the Hazard Communication Standard (HCS) to conform with the United Nations' (UN) Globally Harmonized System of Classification and Labeling of Chemicals (GHS): <http://www.osha.gov/dsg/hazcom/hazcom-faq.html>

**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

### 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.