



**Prevention** Keep container tightly closed. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/eye protection/face protection.

**Response** If swallowed: call a poison center/doctor if you feel unwell. If on skin (or hair): take off immediately all contaminated clothing. Rinse skin with water/shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses. If present and easy to do. Continue rinsing. Specific treatment (see this label). Rinse mouth. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use appropriate medical to extinguish.

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

**Disposal** Dispose of contents/containers in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise Classified (HNOC)** Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and vapor. May cause flash fire or explosion.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Poly(oxy-1,2-ethanediyl), a-sulfo-w-hydroxy-, C10-16-alkyl ethers, ammonium salts (Alternate CAS 32612-48-9)		67762-19-0	<10-50
Ethanol		64-17-5	5-10

### 4. FIRST-AID MEASURES

#### First Aid Measures

<b>Eye Contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. If eye irritation persists: Get medical advice/attention.
<b>Skin Contact</b>	Remove contaminated clothing. Wash with plenty of water. If irritation persists, seek medical attention.
<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Ingestion</b>	Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Do not induce vomiting without advice from poison control center.

#### Most important symptoms and effects

<b>Symptoms</b>	Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
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#### Indication of any immediate medical attention and special treatment needed

<b>Notes to Physician</b>	Treat symptomatically.
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## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Alcohol resistant foam. Water fog. Carbon dioxide (CO<sub>2</sub>). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

**Unsuitable Extinguishing Media** Do not use water jet as an extinguisher, as this will spread the fire.

### Specific Hazards Arising from the Chemical

Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed.

### 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.

### Fire-fighting equipment/instructions

In case of fire and/or explosion do not breath fumes. Move containers from fire area if you can do so without risk.

### General fire hazards

Flammable liquid and vapor.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

<b>Personal Precautions</b>	Use personal protective equipment as required. Keep unnecessary personnel away. Eliminate all ignition sources. Ventilate closed spaces before entering them.
<b>Environmental Precautions</b>	Use appropriate containment to avoid environmental contamination. Local authorities should be advised if significant spillages cannot be contained.

### Methods and material for containment and cleaning up

<b>Methods for Containment</b>	Eliminate all ignition sources. Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles away from spilled material. Large spills – Stop the flow of materials, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading.
<b>Methods for Clean-Up</b>	Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Prevent product from entering drains. Following product recovery, flush area with water.  Small spills – Wipe up with absorbent material. Clean surface thoroughly to remove residue contamination.  Never return spills to original containers for re-use. For waste disposal, see section 13.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

#### **Advice on Safe Handling**

Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Avoid contact with skin. Avoid contact with eyes. Avoid contact with skin. Avoid contact with clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good Industrial hygiene practices. When using, do not eat, drink or smoke, Wash hands thoroughly after handling. Avoid release to the environment.

## Conditions for safe storage, including any incompatibilities

<b>Storage Conditions</b>	Keep container tightly closed and store in a cool, dry and well-ventilated place. Store containers upright. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Eliminate sources of ignition. Ground/bond container and equipment. These alone may be insufficient to remove static electricity. Store in original tightly closed container. Keep in an area equipped with sprinklers.
<b>Incompatible Materials</b>	See section 10.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

### **Occupational exposure limits**

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value
Ethanol (CAS 64-17-5)	PEL	1900mg/m3
US. ACGIH Threshold Limit Values		
Components	Type	Value
Ethanol (CAS 64-17-5)	STEL	1000 ppm
US. NIOSH: Pocket Guide to Chemical Hazards		
Components	Type	Value
Ethanol (CAS 64-17-5)	TWA	1900 mg/m3 1000 ppm

**Biological limit values** No biological exposure limits noted for the ingredients(s).

### **Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

### **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  
**Skin and Body Protection** Wear suitable protective clothing.  
**Respiratory Protection** Ensure adequate ventilation, especially in confined areas. If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.  
**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.  
**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

## **9. PHYSICAL AND CHEMICAL PROPERTIES**

### **Information on basic physical and chemical properties**

<b>Physical State</b>	Liquid	<b>Odor</b>	Bland
<b>Appearance</b>	Clear Amber	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Clear Amber		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>pH</b>	7.00	
<b>Melting Point/Freezing Point</b>	34°F (1.1°C)	
<b>Boiling Point/Boiling Range</b>		
<b>Flash Point</b>	110°F	
<b>Evaporation Rate</b>	Estimated slower than ethyl ether	
<b>Flammability (Solid, Gas)</b>	Liquid-Not Applicable	
<b>Upper Flammability Limits</b>	Not determined	
<b>Lower Flammability Limit</b>	Not determined	
<b>Vapor Pressure</b>	Not Applicable	
<b>Vapor Density</b>	Estimated heavier than air	
<b>Specific Gravity</b>	1.072	(1=Water)
<b>Water Solubility</b>	Completely soluble	
<b>Solubility in other solvents</b>	Not determined	
<b>Partition Coefficient</b>	Not determined	

<b>Auto-ignition Temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined
<b>Kinematic Viscosity</b>	Not determined
<b>Dynamic Viscosity</b>	Not determined
<b>Explosive Properties</b>	Not determined
<b>Oxidizing Properties</b>	Not determined

## 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.

### **Conditions to Avoid**

Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

### **Incompatible Materials**

Strong oxidizing agents.

### **Hazardous Decomposition Products**

Upon decomposition, this product may yield sulfur dioxide and oxides of sulfur.

## 11. TOXICOLOGICAL INFORMATION

### **Information on likely routes of exposure**

<b>Eye Contact</b>	Cause serious eye irritation.
<b>Skin Contact</b>	Causes skin irritation.
<b>Inhalation</b>	Prolonged inhalation may be harmful.
<b>Ingestion</b>	May be harmful if swallowed.

### **Information on physical, chemical and toxicological effects**

<b>Symptoms</b>	May include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain.
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### **Numerical measures of toxicity**

Not determined

## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

### **Persistence/Degradability**

Readily biodegradable.

### **Bioaccumulation**

Not determined.

**Mobility**

Not determined

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods**

<b>Disposal of Wastes</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.
<b>Hazardous waste code</b>	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Waste from residues/unused products</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated Packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

**14. TRANSPORT INFORMATION****Note**

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT**

UN Number	UN1170
UN proper shipping name	Ethanol Solution
Transport hazard class(es)	
Class	3
Subsidiary	-
Packing group	III
Special precautions for user	Ready safety instructions, SDS and emergency procedures before handling.

**IATA**

UN number	UN1170
UN proper shipping name	Ethanol Solution
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packaging group	III
Environmental hazards	No.
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

**IMDG**

UN number	UN1170
UN proper shipping name	Ethanol Solution
Transport hazard class(es)	
Class	3
Subsidiary risk	-
Packing group	III
Environmental hazards	
Marine pollutant	No.
Ems	Not available
Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to Annex II of MARPOL 73/78 and The IBC Code	Not available.

**15. REGULATORY INFORMATION**

<b>Polymer</b>	Polymer exempt in the following countries: Europe
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**US federal regulations** This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories** Immediate Hazard – Yes  
Delayed Hazard – No  
Fire Hazard – Yes  
Pressure Hazard – No  
Reactivity Hazard - No

**SARA 302 Extremely Hazardous substance** No

**SARA 311/312 Hazardous chemical** Yes

**SARA 313(TRI reporting)**

<u>Chemical name</u>	<u>CAS number</u>	<u>% by wt.</u>
1,4- dioxane	123-91-1	<0.1

**Other federal Regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPS) List**

Not regulated

**Clean Air Act (CAA) Section 112® Accidental Release Prevention (40 CFR 68.130)**

Not regulated

**Safe Drinking Water Act (SDWA)** Not regulated

**US state regulations**

**US – Pennsylvania RTK – Hazardous Substances : Listed Substance**

Ethanol (CAS 64-17-5)

**US. Massachusetts RTK – Substance List**

Ethanol (CAS 64-17-5)

**US. Rhode Island RTK**

Not regulated.

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**International Inventories**

<b>Country(s) or region</b>	<b>Inventory name</b>	<b>On inventory (yes/no)</b>
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\* A "Yes" indicates that all components of this product comply with the inventory requirements administered by the government country(s)  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing Country(

## 16. OTHER INFORMATION

**NFPA**

**Health Hazards**

Not determined

**Flammability**

Not determined

**Instability**

Not determined

**Special Hazards**

Not determined

**HMIS**

**Health Hazards**

1

**Flammability**

3

**Physical Hazards**

0

**Personal Protection**

A = Goggles

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**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**