

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

Product Name Sure Shine

### Other means of identification

Product Code 6580

### Details of the supplier of the safety data sheet

Company Name Blue Cardinal Chemical, LLC  
3670 Scarlet Oak Blvd.  
St. Louis, MO 63122  
800-325-3312

### Emergency telephone number

Emergency Telephone CHEMTEL 1-800-255-3924

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29CFR 1910.1200). However, this Safety Data Sheet contains valuable information critical to the safe handling and proper use of this product.

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

### Emergency Overview

**Appearance:** Milky-white liquid

**Physical state:** Liquid

**Odor:** Chemical

### **Precautionary Statements - Storage**

Store in original tightly closed container. Store away from any incompatible materials.

### **Precautionary Statements - Disposal**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO.	WEIGHT - %	TRADE SECRET
Tributoxyethyl phosphate	78-51-3	1-5	*
Glycol ether TPM	25498-49-1	1-5	*
Di(ethylene glycol) ethyl ether	111-90-0	1-5	*
Dipropylene Glycol Monomethyl Ether (DPM)	34590-94-8	1-5	*

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

## 4. FIRST AID MEASURES

### First aid measures

<b>Eye Contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting upper and lower lids. Get medical advice/attention.
<b>Skin Contact</b>	Wash with plenty of water. If skin irritation occurs: get medical advice/attention. Take off contaminated clothing and wash it before reuse.
<b>Inhalation</b>	Move to fresh air. Call a physician if symptoms develop or persist.
<b>Ingestion</b>	Rinse mouth with water and drink plenty of water.

### Most important symptoms and effect, both acute and delayed

**Symptoms** Eye itching, stinging, redness, tearing. Skin redness and itching.

### Indication of any immediate medical attention and special treatment needed

**Note to physicians** Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide.

### Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed. No unusual fire or explosion hazards noted.

### Protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing. Move containers from area if you can do so without risk. Use standard firefighting procedures and consider the hazards of other involved materials.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Keep unnecessary personnel away. Keep people away from and upwind of spill. Keep out of low areas. Wear appropriate protective equipment and clothing during cleanup. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

### Environmental precautions

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

**Methods and material for containment and cleaning up****Methods for containment & cleaning up**

This product is miscible in water. Large spills: stop the flow of material, if this is without risk. Dike the spilled material, where possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. Small spills: wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Never return spilled material to original container.

## 7. HANDLING AND STORAGE

**Precautions for safe handling****Advice on safe handling**

Do not get in eyes, on skin, or on clothing. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

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

Store in original tightly closed container. Store away from any incompatible materials (see sec. 10).

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters****Exposure Guidelines**

ACGIH TLV STEL 150ppm, TWA 100ppm S\*  
 OSHA PEL TWA 100ppm, TWA 600mg/m<sup>3</sup> (vacated), TWA 600mg/m<sup>3</sup> (vacated), STEL 150ppm (vacated), STEL 900 mg/m<sup>3</sup> (vacated) S\*  
 S\*  
 NIOSH IDLH: IDLH 600ppm, TWA 100ppm, TWA 600mg/m<sup>3</sup>, STEL 150ppm, STEL 900mg/m<sup>3</sup>

**Appropriate engineering controls****Engineering Controls**

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product. It is recommended that users of this product perform a risk assessment to determine the appropriate PPE.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear eye protection and face protection.

**Skin and body protection**

Wear chemical resistant gloves.

**Respiratory protection**

No special protective equipment is needed under normal use conditions.

**General Hygiene**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothes and protective equipment to remove contaminants.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Physical State	Liquid
Appearance	Milky-white liquid
Color	Milky white
Odor	Chemical
Odor Threshold	Not available

<u>Property</u>	<u>Values</u>
pH	8–9
Boiling Point	212 °F
Vapor Pressure	Unknown
Specific Gravity	1.027
Melting Point/Freeze Point	Unknown
Flash Point	200 °F
Evaporation Rate	Not available
Flammability (solid, gas)	Non-flammable
Upper Flammability Limit	Not available
Lower Flammability Limit	Not available
Explosive Properties	Not available
Vapor Density	Not available
Water Solubility	Soluble
Auto-Ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity	Water-like
Oxidizing Properties	Not an oxidizer
Other Solubilities	Not available

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under normal conditions.

### Possibility Of Hazardous Reactions

Hazardous polymerization does not occur.

### Conditions to Avoid

Do not mix with other chemicals. Avoid contact with incompatible materials.

### Incompatible Materials

Strong acids.

### Hazardous Decomposition Products

Irritating and/or noxious fumes and gases may be emitted upon decomposition.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Skin Contact</b>	May cause skin irritation.
<b>Eye Contact</b>	May cause serious eye irritation.

<b>Inhalation</b>	May cause irritation of the respiratory system. Prolonged inhalation may be harmful.
<b>Ingestion</b>	Causes respiratory tract irritation.

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
Tributoxyethyl phosphate	000mg/kg	>5000 mg/kg	>6.4mg/L
Di(ethylene glycol) ethyl ether	920mg/kg	4200uL/kg	>5240mg/m3, 4hr
Glycol ether TPM	184mg/kg	15440mg/kg	
Dipropylene Glycol Monomethyl Ether (DPM)	5230mg/kg	9500mg/kg	
Alcohol ethoxylate	1378mg/kg	>2g/kg	

### Information on toxicological effects

**Symptoms** Eye itching, stinging, redness, tearing. Skin redness and itching.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Carcinogenicity</b>	Not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA
<b>Respiratory Sensitization</b>	Not a respiratory sensitizer.
<b>Skin Sensitization</b>	Not a skin sensitizer.
<b>Germ Cell Mutagenicity</b>	No data available to indicate product is mutagenic or genotoxic.
<b>Reproductive Toxicity</b>	Not expected to cause reproductive toxicity.
<b>Specific Target Organ Toxicity, Single exposure</b>	Not classified
<b>Specific Target Organ Toxicity, repeated exposure</b>	Not classified.
<b>Aspiration Hazard</b>	Not available.
<b>Chronic Effects</b>	None noted.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

CHEMICAL NAME	ALGAE/AQUATIC PLANTS	FISH	CRUSTACEA
Tributoxyethyl phosphate	N/A	LC50 10.4-12.0mg/l N/A 96 hr.	N/A
Di(ethylene glycol) ethyl ether	N/A	11400-15700; 96 hr. Onchorhynchus mykiss mg/L LC50 flow-through 11600-16700: 96 hr. Pimephales promelas mg/L LC50 flow-through 10000: 96 hr. lepomis macrochirus mg/L LC50 static 19100-23900: 96 hr. Lepomis macrochirus mg/L LC50 flow-through 13400: 96 hr. salmo gairdneri mg/L LC50 flow-through	N/A

Glycol ether TPM	N/A	11619: 96 hr. Pimephales promelas mg/L LC50 static	10:48 h Daphnia magna mg/L EC50
Dipropylene Glycol Monomethyl Ether (DPM)	N/A	10000: 96 h Pimephales promelas mg/L LC50 static	1919:48 h Daphnia magna mg/L LC50 static

**Persistence and Degradability**

No data available.

**Bioaccumulation**

No data available.

**Soil Mobility**

CHEMICAL NAME	PARTITION COEFFICIENT
Tributoxy phosphate	4.78
Di(ethylene glycol) ethyl ether	-0.8
Dipropylene glycol monomethyl ether (DPM)	-0.064

**Other Adverse Effects**

No other adverse effects expected.

### 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>	Not a hazardous waste.
<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>	Since empty containers may contain product residue, follow all label warnings even after container is emptied. Follow disposal directions.

### 14. TRANSPORT INFORMATION

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

**DOT Classification***Not regulated*

### 15. REGULATORY INFORMATION

**U.S. Federal Regulations****SARA 313**

SARA 313 toxic chemical notification and release reporting:

CHEMICAL NAME	CAS#
Di(ethylene glycol) ethyl ether	111-90-0

CHEMICAL NAME	CAS#
Glycol Ether TPM	25498-49-1
Dipropylene glycol monomethyl ether (DPM)	34590-94-8

**U.S. State Right-to-Know Regulations**

New Jersey Di(ethylene glycol) ethyl ether, Glycol Ether TPM, Dipropylene glycol monomethyl ether (DPM)  
 Massachusetts Dipropylene glycol monomethyl ether (DPM)  
 Pennsylvania Di(ethylene glycol) ethyl ether, Glycol Ether TPM, Dipropylene glycol monomethyl ether (DPM)

**16. OTHER INFORMATION**

<b>NFPA</b>	Health hazards	1	Flammability	0	Reactivity	0	Other	B
<b>HMIS</b>	Health hazards	1	Flammability	0	Reactivity	0	Personal protection	B

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 Revision Date N/A  
 Revision Note N/A

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

**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**