

MATERIAL SAFETY DATA SHEET

Complies with OSHA Hazard Communication Standard 29 CFR 1910.1200

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SECTION 1

SUNNYSIDE CORPORATION
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EMERGENCY TELEPHONE

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FOR INFORMATION:

(847) 541-5700

- SUNNYSIDE CORPORATION
- CHEM TREC

Product Class: Glycol Ether
Trade Name: Universal Retarder UR-1
(Solvent EB)

Manufacturer's Code:
NPCA HMIS:

843
Health: 2
Flammability: 2
Reactivity: 1

Product Appearance and Odor: Clear, colorless liquid with faint odor.

SECTION 2 -- HAZARDOUS INGREDIENTS

OCCUPATIONAL EXPOSURE LIMITS

INGREDIENT	CAS #	PERCENT	ACGIH TLV (TWA)	ACGIH TLV (STEL)	OSHA PEL (TWA)	OSHA PEL (STEL)	VAPOR PRESSURE
2-Butoxyethanol	111-76-2		20 PPM		50 PPM (SKIN)		0.6 MM Hg @ 20° C.

SECTION 3 -- EMERGENCY AND FIRST AID PROCEDURES

Eye Contact:	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention.
Skin Contact:	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash contaminated clothing before reuse. Destroy or thoroughly clean contaminated shoes.
Inhalation:	Move to fresh air. Treat symptomatically. Get medical attention.
Ingestion:	Call a physician or poison control center immediately. Induce vomiting as directed by medical personnel. Never give anything by mouth to an unconscious person.

SECTION 4 -- PHYSICAL DATA

The following data represent approximate or typical values. They do not constitute product specifications.

Boiling Range:	336° (F) - I.B.P.	Vapor Density:	Heavier than air
Evaporation Rate:	Slower than ether	% Volatile By Volume:	100%
Weight Per Gallon:	7.51 lbs.		
Solubility in Water:	Complete		

SECTION 5 -- FIRE AND EXPLOSION DATA

Flammability Classification:	Combustible Liquid - Class IIIA
Flash Point:	143° F. (Tag, Closed Cup)
Lower Explosive Limit:	1.1% @ 93° C.
Extinguishing Media:	Water spray, dry chemical, CO2, alcohol foam.
Unusual Fire and Explosion Hazards:	Do not store or mix with strong oxidants. Forms peroxides of unknown stability.
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Use water spray to keep fire-exposed containers cool.

SECTION 6 -- HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: 20 PPM - ACGIH - Time Weighted Average.

EFFECTS OF OVEREXPOSURE

Inhalation: Harmful if inhaled. Vapors may irritate nose, throat and respiratory tract and are acutely toxic if inhaled.

Eyes: Causes irritation. Based on product testing, product is severely irritating to eyes.

Skin: Harmful if absorbed through the skin. Causes irritation.

Ingestion: Harmful if swallowed. Based on product testing, product is moderately toxic if ingested.

Chronic: Studies in experimental animals have produced damage to the red blood cell by inhalation, skin absorption, and ingestion. Toxic liver effects in male rats were also observed.

Carcinogenicity: This product has not been identified as a carcinogen by NTP, IARC or OSHA.

SECTION 7 -- REACTIVITY DATA

Stability: Stable; however forms peroxides of unknown stability.

Conditions to Avoid: Heat, sparks, flame.

Incompatibility (Materials to Avoid): Oxidizing materials can cause a reaction.

Hazardous Decomposition Products: Combustion produces carbon dioxide and probably carbon monoxide.

Hazardous Polymerization: Will not occur.

SECTION 8 -- SPILL OR LEAK PROCEDURES

Steps to be taken in case material is spilled or released: Remove ignition sources, evacuate area, avoid breathing vapor or contact with liquid. Recover free liquid or stop leak if possible. Dike large spills and use absorbent material for small spills. Keep spilled material out of sewers, ditches and bodies of water.

Waste disposal method: Incinerate under safe conditions; dispose of in accordance with local, state and federal regulations.

SECTION 9 -- SAFE HANDLING AND USE INFORMATION

Respiratory Protection: An appropriate NIOSH-approved respirator for organic vapor should be worn if needed.

Ventilation: General: Recommend at least ten air changes per hour for good general room ventilation.

Local Exhaust: If needed to control vapor below occupational exposure limits.

Protective Gloves: Solvent resistant.

Eye Protection: Safety glasses should be worn.

Other Protective Equipment: Impermeable apron or smock and boots should be worn to minimize skin contact. Safety shower, eye bath and washing facilities should be available.

Special Storage & Handling Precautions: Keep away from heat, light and flame. Keep from contact with oxidizing materials. Minimize exposure to air. After opening, purge container with nitrogen before closing. If peroxide formation is suspected, do not open or move container. Do not distill to near dryness. Addition of water or appropriate reducing materials will lessen peroxide formation.

SECTION 10 -- SPECIAL PRECAUTIONS

Dept. of Labor Storage Category:	Combustible Liquid - Class IIIA
Hygienic Practices:	Keep away from heat, sparks and open flame. Keep containers closed when not in use. Avoid eye contact. Avoid prolonged or repeated contact with skin. Wash skin with soap and water after contact.
Additional Precautions:	<p>Ground containers when transferring liquid to prevent static accumulation and discharge. Minimize exposure to air. Do not allow to evaporate to near dryness. Distill with caution. If peroxide formation is suspected, do not open or move container. Addition of water or appropriate reducing materials will lessen peroxide formation.</p> <p>Additional information regarding safe handling of products with static accumulation potential can be ordered by contacting the American Petroleum Institute (API) for API Recommended Practice 2003, entitled "Protection Against Ignitions Arising Out of Static, Lighting, and Stray Currents" (American Petroleum Institute, 1720 L Street Northwest, Washington, DC 20005), or the National Fire Protection Association (NFPA) for NFPA 77 entitled "Static Electricity" (National Fire Protection Association, 1 Batterymarch Park, P.O. Box 9101, Quincy, MA 02269-9101).</p>
Empty Container Warning:	"Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks or other sources of ignition. They may explode and cause injury or death. Do not attempt to clean since residue is difficult to remove. "Empty" drums should be completely drained, properly bunged and promptly returned to supplier or disposed of in an environmentally safe manner and in accordance with governmental regulations.

SECTION 11 -- ADDITIONAL INFORMATION

This product contains the following toxic chemical(s) which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

TOXIC CHEMICAL	CAS #	APPROXIMATE % BY WEIGHT
Glycol Ethers (Ethylene Glycol Monobutyl Ether) (Glycol Ether Compound)	111-76-2	100.00%

SARA Title III Hazard Categories:	Immediate (Acute) Health. Delayed (Chronic) Health, Fire.
Common Names:	Ektasolve EB, Ethylene Glycol Monobutyl Ether

TRANSPORTATION* (U.S. D.O.T. land transportation in packages of 119 gallons or less)

Not regulated by US DOT as a hazardous material.

* Refer to CFR 49 for additional information.