

Safety Data Sheet

Glycol Ether PE

Section 1: Identification

Product Name: Glycol Ether PE
Synonyms: Propylene Glycol Monoethyl Ether, 1-Ethoxy-2-propanol
Recommended Use: Solvent
Restrictions on Use: No data available

Distributor: Silver Fern Chemical, Inc.
 2226 Queen Anne Avenue North
 Seattle WA 98109, USA
 Phone: 1-866-282-3384

24 Hour Emergency Contact: Infotrac 1-800-535-5053 (USA & Canada)
 Outside USA & Canada 1-352-323-3500

Section 2: Hazard Identification

GHS Label elements:

GHS Classification

Flammable liquid
 Serious eye damage/irritation
 Specific target organ toxicity, single exposure; Narcotic effects

Category

3
 2A
 3

Pictogram:



Signal Word: Warning

Code	Hazard Statement
H226	Flammable liquid and vapor
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

Code	Precautionary Statement
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P235	Keep cool.
P240	Ground and bond container and receiving equipment.
P241	Use explosion proof equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P261	Avoid breathing dust/fumes/gas/mist/vapor/spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.

P280	Wear protective gloves/clothing and eye/face protection.
P303+ P361+ P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse with water [or shower].
P304+ P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+ P351+ P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call A POISON CENTER/doctor, if you feel unwell.
P337+ P313	If eye irritation persists: Get medical advice/attention.
P370+ P378	In case of fire: Use water spray, dry chemical, carbon dioxide, or alcohol resistant foam to extinguish.
P403	Store in a well-ventilated place.
P403+ P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container in accordance with local/regional regulations.

Other classifications:

NFPA Rating:

Health: 1

Fire: 2

Reactivity: 0

Section 3: Composition / Information on Ingredients

Component	CAS Number	Concentration	EC Number
Propylene glycol monoethyl ether	52125-53-8	99.0 - 100 %	216-374-5

Section 4: First Aid Measures

Inhalation:	Remove to fresh air. Get medical assistance if irritation persists.
Ingestion:	Do NOT induce vomiting unless directed to do so by medical personnel. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. If victim is conscious and alert, rinse mouth with water. Never give anything by mouth to an unconscious person. Get medical assistance if symptoms occur.
Skin Contact:	Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical assistance if irritation persists.
Eve Contact:	Flush eyes with plenty of water for at least 15 minutes, lifting eyelids. Remove contact lenses, if present and easy to do so. Get medical attention.
Note to Phvsician:	Treat symptomatically and supportively.

Section 5: Fire Fighting Measures

Extinguishing Media:	Use water spray, dry chemical, carbon dioxide, or alcohol resistant foam. Do NOT use solid water stream as it may spread fire. Use water to cool exposed containers. Containers may explode in the heat of a fire.
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Move fire-exposed containers, if safe to do so.

Special Protective Equipment: Wear a self-contained breathing apparatus MSHA/NIOSH (approved or equivalent), and full protective gear.

Specific Hazards: Flammable liquid and vapor.
Fire residues and contaminated water must be disposed of in accordance with local regulations.
Evacuate personnel upwind in-order to avoid inhalation of irritating/harmful fumes and smoke.
Fight fire from maximum distance or use unmanned hose holders or monitor nozzles.
Vapors are heavier than air and may travel along surfaces to remote ignition sources and flash back.
Vapors may form explosive mixture with air.

Section 6: Accidental Release Measures

Emergency Procedures: Wear personal protection equipment.
Avoid contact with skin, eyes and clothing.
Avoid breathing vapors, mist or gas.
Ensure adequate ventilation.
Keep unnecessary personnel away and upwind.
Remove all sources of ignition.
Take precautionary measures against static discharge.

Environmental Precautions: Prevent further leakage or spillage if safe to do so.
Do not let product enter drains.

Methods of containment/cleanup: Absorb with inert materials and place into appropriate containers for disposal.
Large spills should be collected mechanically (remove by pumping) for disposal.
Do not flush away residues with water, retain as contaminated waste.
Notify appropriate authorities and dispose of in accordance with applicable requirements.

Section 7: Handling and Storage

Handling: Wear personal protection equipment.
Avoid contact with eyes, skin and clothing.
Avoid ingestion and inhalation.
Use only in well-ventilated area.
Wash thoroughly after handling.
Empty containers retain product residue (liquid and/or vapor), and can be dangerous.
Do not pressurize, cut, weld, braze, solder, drill, grind, or expose empty containers to sources of ignition.
Ground and bond containers when transferring material to avoid static discharges.
Use spark-proof tools and explosion-proof equipment.
Take precautionary measures against static discharge.
After opening, purge container with nitrogen before reclosing.
Periodically test for peroxide formation on long-term storage.
Do not allow to evaporate to near dryness. Do not distill to near dryness.

Storage: Store tightly closed container in a cool, dry, well-ventilated area away from direct sunlight.
Keep isolated from incompatible materials.
Keep away from heat, sparks, flame and other sources of ignition.
Recommended storage temperature: Between 0°C and 30°C.

Suitable packaging material: Mild steel, stainless steel.

Non-suitable packaging material: Aluminium, most plastics, natural, butyl, neoprene or nitrile rubbers.

Section 8: Exposure Controls / Personal Protection

Exposure Limit:	No exposure limits established.
Engineering Controls:	Use adequate ventilation to keep airborne concentrations low. An emergency eye wash/shower must be readily accessible to the work area.
Personal Protective Equipment:	
Respirators:	Follow the OSHA respirator regulations found in 29 CFR 1910.134. In confined areas, use a self-contained breathing apparatus.
Skin Protection:	Wear appropriate protective gloves and clothing to prevent skin exposure.
Recommended glove material:	Neoprene or butyl rubber.
Eye Protection:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133.

Section 9: Physical and Chemical Properties

Physical State:	Liquid
Color:	Clear, colorless
Odor:	Mild, sweet, Ether-like
Odor Threshold:	No data available
pH:	No data available
Melting/Freezing Point:	-90 to -70 °C
Boiling Point:	129°C to 136 °C
Decomposition Temperature:	No data available
Flash Point:	35°C to 40 °C
Auto-ignition Temperature:	255 °C
Flammability/Explosive Limits:	1.3 to 12 % (V)
Vapor Pressure:	5.86 hPa at 20 °C 10 hPa at 25 °C
Vapor Density (air=1):	3.5 to 3.6
Relative Density (water=1):	0.890 to 0.907 g/cm ³
Solubility (in water):	Soluble
Partition coefficient: n-Octanol/water:	Log Pow: < 1
Evaporation Rate (Butyl Acetate=1)	0.5
Kinematic Viscosity	No data available
Molecular Weight:	104.15 g/mol

Section 10: Stability and Reactivity

Stability:	Stable at room temperature and under normal conditions.
Hazardous Reactions:	Unstable on exposure to air. Hygroscopic. May react with oxygen to form peroxides. Polymerization will not occur.
Conditions to Avoid:	Avoid heat, sparks, open flames and other sources of ignition. Avoid prolonged exposure to air or moisture.

Incompatible Materials: Strong oxidizing agents, acids, or alkalis.

Decomposition Products: Carbon oxides.

Section 11: Toxicological Information

Potential Health Effects:

Inhalation: Not expected to be harmful.
Inhalation of high concentrations may cause: Central nervous system depression, respiratory irritation, headache, fatigue, and dizziness.

Skin Contact: Repeated or prolonged skin contact may lead to irritation.

Eye Contact: Causes serious eye irritation.

Ingestion: May cause nausea, headache, dizziness and intoxication.

Numerical Measures of Acute Toxicity:

	Route	Test	Subject	Value	Time
	Dermal	LD 50	Rabbit	8,100 mg/kg	
	Inhalation	LC 50	Rat	> 10,000 mg/L	4 hours
	Oral	LD 50	Rat	>5,000 mg/kg	

Additional Information:

Aspiration Toxicity: Not classified based on available information.

Carcinogenicity: This product is not classified as a carcinogen by IARC or U.S. ACGIH, NTP or OSHA.

Germ cell mutagenicity: Not classified based on available information.

Reproductive toxicity: Not classified based on available information.

Sensitization: Not classified based on available information.

STOT - Repeated Exposure: Not classified based on available information.

STOT - Single Exposure: May cause drowsiness or dizziness

Section 12: Ecological Information

Ecotoxicity	Group	Test	Subject	Value	Time
	Fish:	LC 50	Leuciscus idus	6,812 mg/l	96 hours
	Aquatic invertebrates:	EC 50	Daphnia magna	180 mg/l	48 hours
	Aquatic plants:	EC 50	Algae	> 100 mg/l	72 hours
	Micro-organisms:	EC 10	Pseudomonas putida	4,600 mg/l	16 hours

Persistence and Degradability: Readily Biodegradable.

Bioaccumulative Potential: Low potential for bioaccumulation.

Mobility in Soil: High potential for soil mobility.

Section 13: Disposal Considerations

Packaging: Empty containers may retain product residue, follow label warnings even after container is emptied.

Disposal: Dispose of according to Federal, State, and Local Regulations.

Section 14: Transportation Information

The information in this section is for reference only and should not take the place of a bill of lading specific to an order.

UN #: UN3271
Proper Shipping Name: Ethers, N.O.S. (Propylene Glycol Monoethyl Ether)

Transport Hazard Class: 3
Packing Group: III
Labels & Placards: FLAMMABLE
Marine Pollutant: No
EMS: F-E, S-D

Section 15: Regulatory Information

US Federal - TSCA: This product is listed on the TSCA active inventory.

California - Prop 65: This product is not subject to the State of California's Proposition 65 regulations.

Section 16: Other Information

Revision Date: Thursday, May 7, 2020

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