

# PROPYLENE GLYCOL ETHYL ETHER

PGY

CAUTIONARY RESPONSE INFORMATION		
Common Synonyms 1-Ethoxy-2-propanol	Liquid	Colorless
<p>Shut off ignition sources and call fire department. Avoid contact with liquid. Notify local health and pollution control agencies.</p>		
Fire	Combustible. Extinguish with dry chemical, alcohol foam, or carbon dioxide. Cool exposed containers with water.	
Exposure	CALL FOR MEDICAL AID.  LIQUID Irritating to skin and eyes. Remove contaminated clothing and shoes. Flush affected areas with plenty of water. IF IN EYES, hold eyelids open and flush with plenty of water.	
Water Pollution	Effect of low concentrations on aquatic life is unknown. May be dangerous if it enters water intakes. Notify local health and wildlife officials. Notify operators of nearby water intakes.	

1. CORRECTIVE RESPONSE ACTIONS	2. CHEMICAL DESIGNATIONS	3. HEALTH HAZARDS
Stop discharge Dilute and disperse	<p>2.1 CG Compatibility Group: 40; Glycol ethers            2.2 Formula: <math>\text{CH}_3\text{CH}(\text{OCH}_2\text{CH}_2\text{OH})\text{CH}_3</math>            2.3 IMO/UN Designation: Currently not available            2.4 DOT ID No.: Not listed            2.5 CAS Registry No.: 1569-02-4            2.6 NAERG Guide No.: Not listed            2.7 Standard Industrial Trade Classification: 51616</p>	<p>3.1 Personal Protective Equipment: Approved respirator; rubber gloves; goggles; clothing to prevent body contact with liquid.            3.2 Symptoms Following Exposure: Vapors irritate eyes and nose.            3.3 Treatment of Exposure: Call for medical aid. INHALATION: Remove to fresh air. SKIN OR EYES: Immediately flush with plenty of water.            3.4 TLV-TWA: Not listed.            3.5 TLV-STEL: Not listed.            3.6 TLV-Ceiling: Not listed.            3.7 Toxicity by Ingestion: Grade 2; LD<sub>50</sub> = 4.4 g/kg (rat)            3.8 Toxicity by Inhalation: Currently not available.            3.9 Chronic Toxicity: Can cause corneal damage. Inhalation or skin contact can cause toxic effects.            3.10 Vapor (Gas) Irritant Characteristics: Vapors cause a slight smarting of the eyes or respiratory system if present in high concentrations. The effect is temporary.            3.11 Liquid or Solid Characteristics: Minimum hazard. If spilled on clothing and allowed to remain, may cause smarting and reddening of the skin.            3.12 Odor Threshold: Currently not available            3.13IDLH Value: Not listed.            3.14 OSHA PEL-TWA: Not listed.            3.15 OSHA PEL-STEL: Not listed.            3.16 OSHA PEL-Ceiling: Not listed.            3.17 EPA AEGL: Not listed</p>

4. FIRE HAZARDS	7. SHIPPING INFORMATION
4.1 Flash Point: Currently not available	7.1 Grades of Purity: Commercial. 7.2 Storage Temperature: Ambient. 7.3 Inert Atmosphere: No requirement. 7.4 Venting: Not listed.
4.2 Flammable Limits in Air: Currently not available	7.5 IMO Pollution Category: D 7.6 Ship Type: Data not available 7.7 Barge Hull Type: Currently not available
4.3 Fire Extinguishing Agents: Alcohol foam, water spray, dry chemical or carbon dioxide.	
4.4 Fire Extinguishing Agents Not to Be Used: Not pertinent.	
4.5 Special Hazards of Combustion Products: Carbon dioxide and carbon monoxide may be produced in a fire.	8. HAZARD CLASSIFICATIONS
4.6 Behavior in Fire: Currently not available	8.1 49 CFR Category: Not listed. 8.2 49 CFR Class: Not pertinent. 8.3 49 CFR Package Group: Not listed. 8.4 Marine Pollutant: No 8.5 NFPA Hazard Classification: Not listed 8.6 EPA Reportable Quantity: Not listed. 8.7 EPA Pollution Category: Not listed. 8.8 RCRA Waste Number: Not listed 8.9 EPA FWPCA List: Not listed
4.7 Auto Ignition Temperature: Currently not available	
4.8 Electrical Hazards: Not listed.	
4.9 Burning Rate: Currently not available	
4.10 Adiabatic Flame Temperature: Currently not available	9. PHYSICAL & CHEMICAL PROPERTIES
4.11 Stoichiometric Air to Fuel Ratio: 34.5 (calc.)	9.1 Physical State at 15° C and 1 atm: Liquid 9.2 Molecular Weight: 104.15 9.3 Boiling Point at 1 atm: Currently not available
4.12 Flame Temperature: Currently not available	9.4 Freezing Point: Currently not available 9.5 Critical Temperature: Currently not available 9.6 Critical Pressure: Currently not available 9.7 Specific Gravity: Currently not available 9.8 Liquid Surface Tension: Currently not available 9.9 Liquid Water Interfacial Tension: Currently not available 9.10 Vapor (Gas) Specific Gravity: Currently not available 9.11 Ratio of Specific Heats of Vapor (Gas): Currently not available
4.13 Combustion Molar Ratio (Reactant to Product): 11.5 (calc.)	9.12 Latent Heat of Vaporization: Currently not available 9.13 Heat of Combustion: Currently not available 9.14 Heat of Decomposition: Currently not available 9.15 Heat of Solution: Currently not available 9.16 Heat of Polymerization: Not pertinent. 9.17 Heat of Fusion: Currently not available 9.18 Limiting Value: Currently not available 9.19 Reid Vapor Pressure: Currently not available
4.14 Minimum Oxygen Concentration for Combustion (MOCC): Not listed	
5. CHEMICAL REACTIVITY	
5.1 Reactivity with Water: No reaction.	
5.2 Reactivity with Common Materials: Incompatible with oxidizing materials.	
5.3 Stability During Transport: Stable.	
5.4 Neutralizing Agents for Acids and Caustics: Not pertinent.	
5.5 Polymerization: Will not polymerize.	
5.6 Inhibitor of Polymerization: Not pertinent.	
6. WATER POLLUTION	
6.1 Aquatic Toxicity: Currently not available	
6.2 Waterfowl Toxicity: Currently not available	
6.3 Biological Oxygen Demand (BOD): Currently not available	
6.4 Food Chain Concentration Potential: None.	
6.5 GESAMP Hazard Profile: Not listed	

NOTES

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9.20 SATURATED LIQUID DENSITY		9.21 LIQUID HEAT CAPACITY		9.22 LIQUID THERMAL CONDUCTIVITY		9.23 LIQUID VISCOSITY	
Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F	Temperature (degrees F)	British thermal unit inch per hour-square foot-F	Temperature (degrees F)	Centipoise
CURRENTLY NOT AVAILABLE			CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVAILABLE

9.24 SOLUBILITY IN WATER		9.25 SATURATED VAPOR PRESSURE		9.26 SATURATED VAPOR DENSITY		9.27 IDEAL GAS HEAT CAPACITY	
Temperature (degrees F)	Pounds per 100 pounds of water	Temperature (degrees F)	Pounds per square inch	Temperature (degrees F)	Pounds per cubic foot	Temperature (degrees F)	British thermal unit per pound-F
MISCIBLE			CURRENTLY NOT AVAILABLE		CURRENTLY NOT AVAILABLE	0 25 50 75 100 125 150 175 200 225 250 275 300 325 350 375 400 425 450 475 500 525 550 575 600	0.329 0.341 0.353 0.364 0.376 0.387 0.398 0.408 0.419 0.429 0.439 0.449 0.459 0.469 0.479 0.488 0.497 0.506 0.515 0.525 0.532 0.540 0.549 0.557 0.565