



THATCHER COMPANY MATERIAL SAFETY DATA SHEET  
PRODUCT: PROPYLENE GLYCOL, USP, INHIBITED  
Page 1 of 3

MSDS Date: August 29, 2005  
Emergency Contact: 1-800-424-9300

**SECTION I**

**PRODUCT NAME:** Propylene Glycol, USP, Inhibited  
**CHEMICAL FAMILY:** Glycol  
**DOT SHIPPING INFORMATION:** Not DOT Regulated

**SECTION II - HAZARDOUS INGREDIENTS**

This material contains no ingredients which are known by Thatcher Company to be hazardous unless listed below.

HAZARDOUS MATERIAL	CAS NUMBER	w/w %	EXPOSURE LIMITS IN AIR
Propylene Glycol	57-55-6	-----	None established

The specific identity of some ingredients may be withheld for confidential business purposes. However, all known potential health effects from exposure to these ingredients are being addressed.

**SECTION III - PHYSICAL DATA**

**BOILING POINT (F):** Abt 370EF (@760 mm Hg)      **SPECIFIC GRAVITY:** Abt 1.04  
(H<sub>2</sub>O = 1.0 @ 39.2EF)  
**VAPOR PRESSURE (mm Hg):** Abt 0.08 mm Hg @68EF  
**VAPOR DENSITY (air = 1):** Abt 2.6 (Air = 1.0 @ 60-90EF)  
**SOLUBILITY IN WATER:** Complete  
**APPEARANCE AND ODOR:** Clear, colorless, slightly viscous liquid with little or no odor.

**SECTION IV - FIRE AND EXPLOSION DATA**

**FLASH POINT:** Abt 211EF (TCC)  
**FLAMMABLE LIMITS:** Lel: Abt 2.4 (% vol in air)    Uel: Abt 17.4 (% vol in air)  
**EXTINGUISHING MEDIA:** Alcohol type foam, CO<sub>2</sub>, Dry chemical .

**SPECIAL FIRE-FIGHTING PROCEDURES:**

Do not enter fire area without proper protection. Fight fire from a safe distance. Heat may build enough pressure to rupture closed containers, spreading fire and increasing risk of burns or injuries. Use water spray/fog for cooling. Avoid frothing/steam explosion. Burning liquid may float on water. Although water soluble, may not be practical to extinguish fire by water dilution. Notify authorities immediately if liquid enters sewer/public waters.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**



**THATCHER COMPANY MATERIAL SAFETY DATA SHEET**  
**PRODUCT: PROPYLENE GLYCOL, USP, INHIBITED**  
**Page 2 of 3**

Heat from fire can generate flammable vapor. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may travel long distances along the ground before igniting and flashing back to vapor source. Fine spray/mists may be combustible at temperatures below normal flash point.

**SECTION V - REACTIVITY DATA**

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:** Will not occur

**CONDITIONS OR MATERIALS TO AVOID:** High temperatures, oxidizing conditions, strong oxidizing agents.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Incomplete combustion may produce carbon monoxide and other toxic gases.

**SECTION VI - HEALTH HAZARD DATA**

**Carcinogenic Listing:**

NTP: No ingredients listed in this section.

IARC MONOGRAPHS: No ingredients listed in this section.

OSHA 29 CFR 1910: No ingredients listed in this section.

**ENTRY ROUTES & EFFECTS OF OVEREXPOSURE:**

**Contact:** May cause minor eye irritation.

**STATEMENT OF PRACTICAL TREATMENT:**

**Contact:** Immediately rinse eyes with cool, clean water for at least 20-30 minutes. Retract eyelids often. If irritation persists, consult a physician.

**SECTION VII - SPECIAL PRECAUTIONS**

**HANDLING AND STORAGE PRECAUTIONS:**

Hygroscopic. Use dry nitrogen or low dew point air for tank padding. Keep drums tightly closed to prevent contamination. Store at 65-90°F

**STEPS TO BE TAKEN IF MATERIAL SPILLS OR LEAKS:**

May contaminate water supplies/pollute public waters. Evacuate/limit access. Wear proper safety equipment. Prevent flow to sewer and/or public waters. Stop release. Notify fire and environmental



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**PRODUCT: PROPYLENE GLYCOL, USP, INHIBITED**  
**Page 3 of 3**

authorities. Restrict water use for cleanup. Impound /recover large spills. Soak up small spills with inert solids. Use suitable disposal containers. On water, material is soluble and may float or sink. May biodegrade. Contain and collect as soon as possible to minimize dispersion. Disperse residue to reduce aquatic harm.

**WASTE DISPOSAL METHOD:**

Landfill solids at permitted sites. Use registered transporters. Burn concentrated liquids, diluting with clean, low viscosity fuel. Avoid flame-outs. Assure emissions comply with applicable regulations. Dilute aqueous waste may biodegrade. Assure effluent complies with applicable regulations. Contaminated product, soil, water, container residues and spill cleanup materials should not be designated hazardous wastes.

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:** No special precautions are necessary.

**VENTILATION:** Normal ventilation is adequate.

**EYE PROTECTION:**

Chemical splash goggles and/or face shield must be worn if possibility exists that material may come in contact with eyes because of splashing, spraying liquid, etc.

**SKIN PROTECTION:** No special precautions.

**OTHER PROTECTIVE EQUIPMENT:**

Use good personal hygiene practices. Wash hands thoroughly after handling. Remove contaminated clothing and wash before reuse.

**ACGIH** = American Conference of Governmental Industrial Hygienists

**CL** = Ceiling Level

**IARC** = International Agency for Research on Cancer: Monographs

**OSHA** = Occupational Safety and Health Administration

**N/A** = Not Applicable

**NTP** = National Toxicology Program: Annual Report on Carcinogens

**PEL** = Permissible Exposure Level (OSHA)

**TLV** = Threshold Limit Value (ACGIH)

**TWA** = Time Weighted Average over 8 Hours

**STEL** = Short Term Exposure Limit (ACGIH)

**ND** = Not Determined

This information is, to the best of our knowledge, accurate but may not be complete. THATCHER COMPANY furnishes this information in good faith, but without warranty, representation or guarantee of its accuracy, completeness, or reliability.