

# Safety Data Sheet

## Propylene Glycol, Absolute

### Section 1 - Chemical Product and Company Identification

**SDS Name:** Propylene Glycol, Absolute

**Catalog Numbers:** SO-422, D-40, H-502-4, H-504-6

**Company Identification:** Transene Company, Inc., DBA ROWLEY BIOCHEMICAL, Inc.  
10 ELECTRONICS AVENUE  
DANVERS, MA 01923

**For information, call:** 978-739-4883

**Emergency Number:** 800-424-9300

**For CHEMTREC assistance, call:** 800-424-9300

### Section 2 - Hazards Identification

#### GHS Classifications

Based on available data, the GHS classification criteria are not met.

Consists of ingredients of unknown acute inhalation toxicity.

#### Pictogram or Hazard Symbols and Hazard Statement(s):

No GHS Hazard Symbols.

#### Hazard Statements:

No GHS Hazard Statements.

#### Precautionary Statements:

No GHS Precautionary Statements.

### Section 3 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent
57-55-6	Propylene glycol (1,2-Propanediol)	≤100

#### Section 4 - First Aid Measures

**Eye Exposure:** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Seek medical attention if symptoms occur.

**Dermal Exposure:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Seek medical attention if symptoms occur.

**Oral Exposure:** If swallowed, seek immediate medical advice.

**Inhalation Exposure:** If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

#### Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating gases may be generated by thermal decomposition or combustion.

**Extinguishing media:** Use dry chemical, carbon dioxide, dry sand, water spray, or alcohol-resistant foam.

**Hazardous Combustion Products:** Carbon oxides, irritating fumes and gases.

**Flash point:** 99°C (210.2°F)

**Autoignition Temperature:** 400°C (752°F)

**Explosion Limits, Lower:** 2.6 vol %

**Upper:** 12.6 vol %

**NFPA Rating:** (estimated) Health: 0; Flammability: 1; Instability: 0

#### Section 6 - Accidental Release Measures

**Procedure(s) of Personal Precaution(s):**

Wear personal protective equipment. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Ensure adequate ventilation.

**Methods for Cleaning up:** Absorb with sand, earth, or vermiculite. Carefully sweep up and containerize for proper disposal. Do not release to the environment. Do not release to drains.

#### Section 7 - Handling and Storage

Use care when handling. Wear personal protective equipment. Ensure adequate

ventilation. Wash thoroughly after handling. Do not ingest or inhale. Do not get on skin or clothing. Do not get in eyes. Store in a tightly closed container in a cool, dry, and well-ventilated area. Keep away from incompatible materials.

## Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Use explosion-proof ventilation equipment. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

### Personal Protective Equipment

**Eyes:** Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

**Skin:** Wear appropriate protective gloves to prevent skin exposure.

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements or European Standard EN 149 must be followed whenever workplace conditions warrant a respirator's use.

### Exposure Limits:

Chemical Name	ACGIH - TLV	NIOSH - IDLH	OSHA - Final PELs
Propylene Glycol CAS#57-55-6	Not listed	Not listed	Not listed

## Section 9 - Physical and Chemical Properties

**Physical State:** Viscous liquid

**Appearance:** Clear, colorless

**Odor:** Odorless

**Vapor Pressure:** 0.13 mbar at 20°C (68°F)

**Odor Threshold:** Not available

**Vapor Density:** 2.62 (Air=1.0)

**pH:** Approx. 5.7

**Relative Density:** 1.03 at 20°C (68°F)

**Melting point/freezing point:** -60°C (-76°F)

**Solubility:** Soluble in water

**Boiling Point:** 187°C (368.6°F)

**Flash Point:** 99°C (210.2°F)

**Evaporation Rate:** Not available

**Flammability (solid, gas):** Not available

**Partition coefficient: n-octanol/water:** Pow: 0.085; log Pow: -1.07 at 20.5°C (68.9°F)

**Autoignition Temperature:** 400°C (752°F)

**Decomposition Temperature:** Not available

**Viscosity:** 45 mPa.s at 20°C (68°F)

**Specific Gravity/Density:** 1.03-1.04

## Section 10 - Stability and Reactivity

**Chemical Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** Incompatible materials, ignition sources, and excess heat.

**Incompatibilities with Other Materials:** Strong oxidizing agents, acids, acid chlorides, acid anhydrides, various plastics.

**Hazardous Decomposition Products:** Carbon oxides, irritating fumes and gases.

## Section 11 - Toxicological Information

**CAS#57-55-6 Propylene Glycol: RTECS#: TY2000000**

LD50 Oral: 20 g/kg (rat)

LD50 Dermal: 20800 mg/kg (rabbit)

LC50 Inhalation: Not available

**Carcinogenicity:** Propylene Glycol CAS#57-55-6 is not listed by IARC, NTP, ACGIH, OSHA, or California Prop. 65.

**Information on the likely routes of exposure:** Routes of entry anticipated: oral, dermal, inhalation, and eye.

**Epidemiology:** Not available.

**Teratogenicity:** Chromosome aberration test in vitro (rat, bone marrow, oral)-negative.

**Reproductive Effects:** Not available.

**Developmental Effects:** Not available.

**Neurotoxicity:** Not available.

**Mutagenicity:** Ames test (s. typhimurium)-negative.

**Specific Target Organ Toxicity, Single Exposure:** Not available.

**Specific Target Organ Toxicity, Repeated Exposure:** Not available.

**Symptoms associated with exposure:** No specific data available.

**The toxicological properties of this material have not been thoroughly investigated.**

## Section 12 - Ecological Information

**Ecotoxicity:** Do not release to the environment. Do not release to drains.

**CAS#57-55-6 Propylene Glycol:**

EC50, freshwater algae: 19,000 mg/L 96h (pseudokirchneriella subcapitata)(green algae)

LC50, freshwater fish: 710 mg/L 96h (pimephales promelas)

LC50, freshwater fish: 51600 mg/L 96h static (oncorhynchus mykiss)(rainbow trout)

LC50, freshwater fish: 51400 mg/L 96h static (pimephales promelas)

EC50, water flea: >1000 mg/L 48h static (daphnia magna)

EC50, microtox: 710 mg/L 30min (photobacterium phosphoreum)

**Persistence and degradability:** Persistence is unlikely based on information available.

**Bio-accumulative potential:** Bioaccumulation is not expected.

**Mobility:** Will likely be mobile in the environment due to its water solubility.

### Section 13 - Disposal Considerations

**DISPOSAL:** Dispose of in accordance with all federal, state, and local regulations.

### Section 14 – Transport Information

**DOT**

Non-Regulated

### Section 15 - Regulatory Information

#### Canada Regulatory Information

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR.

### Section 16 - Additional Information

**SDS Creation Date:** May 11, 2012

**Revision #1.** 4/14/2014 YM/ MH 6/23/14

**Revision #2.** 12-12-18

**Revision #3.** 1-24-22

**Revision #4.** 2-24-23

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