

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. Get 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. Get medical attention if symptoms occur.

Oral Exposure: If swallowed, get 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

Revision #5: 1-5-26

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