

Material Safety Data Sheet Propylene Glycol 99.9% USP/EP Food Grade, Kosher and Halal from North America

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Propylene Glycol 99.9% USP/EP, Food Grade, Kosher and Halal from North America
Synonyms: Glycol, 1,2,-propanediol, 1,2-dihydroxypropane, methylethylene glycol, methyl glycol, propylene glycol, propane-1,2-diol, 1,2-propylene glycol, alpha-propylene glycol, 1,2(R,S)-propanediol, 2,3-propanediol, 2-hydroxypropanol, DL-1,2-propanediol, dl--propylene glycol, Adeka PG, Dowfrost, isopropylene glycol, methylethyl glycol, monopropylene glycol, Nybrine NFP, PG 12, ProGlyc 55, Pyopyless, Sirlene, solar winter ban, solargard P, Ucar 35.
Chemical Family: Glycol
Molecular Formula: C₃H₈O₂
Application: Industrial, Laboratory & Research.
Chemical Name: Propylene Glycol

Distributed By:
Ingredient Depot

Prepared By: Ingredient Depot's Compliance & Regulatory Affairs Dept.
Preparation date of MSDS: 9 April 2018
Telephone number of preparer: 1-800-463-0665

24-Hour Emergency Telephone Number: 1-800-463-0665

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Percentage (W/W)	LD50s and LC50s Route & Species:
Propylene Glycol 57-55-6	100	Oral LD50 (Rat/Mouse) 20000 mg/kg Dermal LD50 (Rabbit) 20800 mg/kg

Note: No additional remark.

3. HAZARDS IDENTIFICATION

Potential Acute Health Effects:

Eye Contact: May cause slight transient (temporary) eye irritation.

Skin Contact: Prolonged contact is essentially non irritating to skin. Repeated contact may cause flaking and softening of skin. Prolonged skin contact is unlikely to result in absorption of harmful amounts.

Inhalation: No significant irritation expected from a single short-term exposure. In rare cases, repeated excessive exposure to propylene glycol may cause central nervous system effects.

Ingestion: No adverse health effects are expected from swallowing.

4. FIRST AID MEASURES

Eye Contact: Flush eyes with large volumes of water for at least 15 minutes. Call a physician if irritation develops.

Skin Contact: Flush skin with water for 15 minutes. Call a physician if irritation develops.

Inhalation: Remove person to fresh air.

Ingestion: Immediately drink water to dilute. Consult a physician if symptoms develop. Never give anything by mouth to an unconscious person.

Notes to Physician: Provide symptomatic/supportive care as necessary.

5. FIRE FIGHTING MEASURES

Flash Point: 107 °C / 225 °F

Flash Point Method: Cleveland closed cup.

Autoignition Temperature: 371 °C / 700 °F

Flammable Limits in Air (%): Lower: 2.6 (100°C) Upper: 12.5 (130°C)

Extinguishing Media: Use DRY chemicals, CO2, alcohol foam or water spray.

Special Exposure Hazards: Isolate and restrict area access. Fight fire from a safe distance and from a protected location. Use fine water spray or fog to control fire spread and cool adjacent structures or containers. Consider use of unmanned hose holder or monitor nozzles. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Move containers from fire area if you can do it without risk.

Hazardous Decomposition/Combustion Materials (under fire conditions): Oxides of carbon.

Special Protective Equipment: Fire fighters should wear full protective clothing, including self-contained breathing equipment.

NFPA RATINGS FOR THIS PRODUCT ARE: HEALTH 0, FLAMMABILITY 1, INSTABILITY 0

HMIS RATINGS FOR THIS PRODUCT ARE: HEALTH 0, FLAMMABILITY 1, REACTIVITY 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Wear appropriate protective equipment.

Environmental Precautionary Measures: Prevent entry into sewers or streams, dike if needed. Consult local authorities.

Procedure for Clean Up: Isolate hazard area and restrict access. Absorb with an inert dry material and place in an appropriate waste disposal container. Avoid direct contact with material.

7. HANDLING AND STORAGE

Handling: For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Avoid inhalation of chemical. Empty containers may contain hazardous product residues. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment.

Storage: Store in a cool, dry, well ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store in accordance with good industrial practices. Do not store in: galvanized steel.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Use in a well ventilated area.

Respiratory Protection: In misty atmospheres, use an approved mist respirator.

Gloves:

Impervious gloves.

Skin Protection: Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.

Eyes: Chemical goggles; also wear a face shield if splashing hazard exists.

Other Personal Protection Data: Ensure that eyewash stations and safety showers are proximal to the work-station location.

Ingredients	Exposure Limit - ACGIH	Exposure Limit - OSHA	Immediately Dangerous to Life or Health - IDLH
Propylene Glycol	Not available.	Not available.	Not Available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Colour: Clear

Odour: Mild

pH: N.A.P. @ 25(C).

Specific Gravity: 1.04

Boiling Point: 187.4 @ 369 F.

Freezing/Melting Point: -60 C (-76 F)

Vapour Pressure: Not Available.

Vapour Density: Not Available.

% Volatile by Volume: Not Available.

Evaporation Rate: Not Available.

Solubility: Completely miscible.

VOCs: Not Available.

Bulk Density: 8.66 lb/gal

Molecular Weight: 76.1

10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: High temperatures.

Materials to Avoid: Contact with oxidizing agents. Strong acids and bases.

Hazardous Decomposition Products: Not available.

Additional Information:

No additional remark.

11. TOXICOLOGICAL INFORMATION

Principle Routes of Exposure

Ingestion: No adverse health effects are expected from swallowing.

Skin Contact: Prolonged contact is essentially non irritating to skin. Repeated contact may cause flaking and softening of skin. Prolonged skin contact is unlikely to result in absorption of harmful amounts.

Inhalation: No significant irritation expected from a single short-term exposure. In rare cases, repeated excessive exposure to propylene glycol may cause central nervous system effects.

Eye Contact: May cause slight transient (temporary) eye irritation.

Additional Information: No additional information available.

Acute Test of Product:

Acute Oral LD50: Not Available.
Acute Dermal LD50: Not Available.
Acute Inhalation LC50: Not Available.

Carcinogenicity:

Ingredients	IARC - Carcinogens	ACGIH - Carcinogens
Propylene Glycol	Not listed.	Not listed.

Carcinogenicity Comment: No additional information available.

Reproductive Toxicity/ Teratogenicity/ Embryotoxicity/ Mutagenicity: Animal genetic toxicity studies were negative. In vitro genetic toxicity studies were negative.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:

Ingredients	Ecotoxicity - Fish Species Data	Acute Crustaceans Toxicity:	Ecotoxicity - Freshwater Algae Data
Propylene Glycol	LC50 (Pimephales promelas) 51400 mg/L LC50 (Oncorhynchus mykiss) 51600 mg/L	Not Available.	EC50 (Selenastrum capricornutum) 19000 mg/L

Other Information: Material is readily biodegradable. Material is practically non-toxic to aquatic organisms on an acute basis. Degradation is expected in the atmospheric environment within minutes to hours. Potential for mobility in soil is very high. Bioconcentration potential is low.

13. DISPOSAL CONSIDERATIONS

Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.

Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

14. TRANSPORT INFORMATION

DOT (U.S.):

DOT Shipping Name: Not Regulated.

DOT Hazardous Class: Not Applicable.

DOT UN Number: Not Applicable.

DOT Packing Group: Not Applicable.

DOT Reportable Quantity (lbs): Not Available.

Note: No additional remark.

Marine Pollutant: No.

TDG (Canada):

TDG Proper Shipping Name: Not Regulated.

Hazard Class: Not Applicable.

UN Number: Not Applicable.

Packing Group: Not Applicable.

Note: No additional remark.

Marine Pollutant: No.

15. REGULATORY INFORMATION

U.S. TSCA Inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

Canadian DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

Note: Not available.

U.S. Regulatory Rules

Ingredients	CERCLA/SARA - Section 302:	SARA (311, 312) Hazard Class:	CERCLA/SARA - Section 313:
Propylene Glycol	Not Listed.	Not Listed.	Not Listed.

California Proposition 65: Not Listed.

MA Right to Know List: Not Listed.

New Jersey Right-to-Know List: Not Listed.

Pennsylvania Right to Know List: Listed.

WHMIS Hazardous Class:
NON-CONTROLLED

