



Safety Data Sheet

Section 01 - Identification

Product Identifier Propylene Glycol 50%

Other Means of Identification 1, 2-Dihydroxypropane, 1,2-Propanediol

Product Use and Restrictions on Use Heat transfer fluid

Initial Supplier Identifier ClearTech Industries Inc.
1500 Quebec Avenue
Saskatoon, SK. Canada
S7K 1V7

Prepared By ClearTech Industries Inc. Technical Writer
Phone: 1 (800) 387-7503

24-Hour Emergency Phone Phone: 1 (306) 664 – 2522

Section 02 - Hazard Identification

GHS-Classification

This product has been assessed in accordance with the Hazardous Products Regulations and is not classified as a hazardous substance or mixture.

Section 03 - Composition / Information on Ingredients

Chemical Name	CAS Number	Weight %	Unique Identifiers
1,2-Propylene Glycol	57-55-6	49-51%	

Section 04 - First Aid Measures

Inhalation If symptoms are experienced, remove source of contamination or move victim to fresh air. Obtain medical advice.

Skin Contact / Absorption No health effects expected. Flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, seek medical attention.

Eye Contact If irritation occurs, flush the contaminated eye(s) with lukewarm, gently flowing water for 30 minutes. If irritation persists, obtain medical advice.

Ingestion Normally non-toxic. If irritation or discomfort occurs, obtain medical advice.

Additional Information Symptoms may be delayed. All first aid procedures should be periodically reviewed by a doctor familiar with the material and its conditions of use in the workplace.

Section 05 - Fire Fighting Measures

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Unsuitable Extinguishing Media Not Available

Specific Hazards Arising From the Chemical During a fire carbon oxides may be emitted

Special Protective Equipment and Precautions for Fire-Fighters Wear NIOSH-approved self-contained breathing apparatus and protective clothing.

Further Information Not Available

Section 06 - Accidental Release Measures

Personal Precautions / Protective Equipment / Emergency Procedures Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so.

Environmental Precautions Prevent material from entering drains.

Methods and Materials for Containment and Cleaning Up Avoid generating dust. Use vacuum equipped with HEPA filter(s). Alternatively, dampen spilled material with water. Shovel into clean, dry, labelled containers. Cover containers. Flush area with water.

Section 07 - Handling and Storage

Precautions for Safe Handling This material is essentially non-hazardous. Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for Safe Storage Store in a cool, dry place. Keep container tightly closed, and away from incompatible materials.

Incompatibilities Strong oxidizers, acids

Section 08 - Exposure Controls and Personal Protection

Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Propylene Glycol	Not Established		

Engineering Control(s)

Ventilation Requirements Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.

Other Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.

Protective Equipment

Eyes/Face No specific requirement, but it is good practice to wear chemical safety goggles.

Hand Protection No specific requirement, but it is good practice to prevent skin contact.

Skin and Body Protection No specific requirement, but it is good practice to prevent skin contact.

No special footwear is required other than what is mandated at place of work.

Respiratory Protection Respiratory protection is not normally required. If use creates dust formations, then a NIOSH-approved respirator with a dust cartridge is recommended.

Thermal Hazards Not Available

Section 09 - Physical and Chemical Properties

Appearance

Physical State Viscous Liquid

Colour Clear

Odour Odourless

Odour Threshold Not Applicable

Property

pH Not Available

Melting Point/Freezing Point Not Available

Initial Boiling Point and Boiling Range Not Available

Flash Point Not Available

Evaporation Rate Not Available

Flammability Flammable

Upper Flammable Limit Not Applicable

Lower Flammable Limit Not Applicable

Vapour Pressure (mm Hg, 20°C) Very low.

Vapour Density (Air=1) .13 mm Hg @ 25°C

Solubility(ies) Miscible in water

Partition Coefficient: n-octanol/water Not Available

Auto-ignition Temperature Not Applicable

Decomposition Temperature Not Available

Viscosity Not Available

Explosive Properties Not Available

Specific Gravity (Water=1) 1.042 @ 20°C

% Volatiles by Volume 0

Formula C₃H₈O₂

Molecular Weight 76.09

Section 10 - Stability and Reactivity

Reactivity	Not Available.
Stability	Normally stable.
Possibility of Hazardous Reactions	None known.
Conditions to Avoid	Not Available
Incompatible Materials	Stong oxidizers and strong acids
Hazardous Decomposition Products	Cabon oxides will be released in a fire

Section 11 - Toxicological Information

Acute Toxicity

Component	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Propylene Glycol	21 – 33.7 g/kg (rat)	20.8 g/kg (rabbit)	Not Available

Chronic Toxicity – Carcinogenicity

Component	IARC
Propylene Glycol	Not considered to be carcinogenic by NTP, IARC, ACGIH and OSHA

Skin Corrosion/Irritation	Some studies have shown propylene glycol to be a mild irritant after a long duration of exposure
Ingestion	Non-toxic. Over-exposure may cause high blood pressure, disagreeable taste, nausea and vomiting.
Inhalation	Not toxic through inhalation, over-exposure results in slight irritation of nose and sneezing.
Serious Eye Damage/Irritation	Propylene glycol is a non-irritant to very mild irritant.
Respiratory or Skin Sensitization	Propylene glycol is not a skin sensitizer.
Germ Cell Mutagenicity	Propylene glycol is not known to be mutagenic.
Reproductive Toxicity	Propylene glycol is not known to cause reproductive toxicity.
STOT-Single Exposure	Mild irritant to upper respiratory tract and mucous membranes.
STOT-Repeated Exposure	Not Available
Aspiration Hazard	Not Available
Synergistic Materials	Not Available

Section 12 – Ecological Information

Ecotoxicity

Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Propylene Glycol	EC ₅₀ (Pseudokirchneriella subcpitata, 96d): 19,000 mg/L	LC ₅₀ (Pimephales promelas, 96hr): > 51,400 mg/L	EC ₅₀ (Daphnia magna, 48hr): >10,000 mg/L

Biodegradability	The product itself and products of degradation are not toxic.
Bioaccumulation	Not Available
Mobility	Miscible in water.
Other Adverse Effects	Not Available

Section 13 – Disposal Considerations

Waste From Residues/Unused Products	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.
Contaminated Packaging	Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 14 – Transport Information

UN Number	Not Regulated
UN Proper Shipping Name	Not Regulated
Transport Hazard Class(es)	Not Regulated
Packaging Group	Not Regulated
Environmental Hazards	Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.
Special Precautions	Not Available
Transport in Bulk	Not Available

TDG

Other	Secure containers (full and/or empty) with suitable hold down devices during shipment and ensure all caps, valves, or closures are secured in the closed position.
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TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 14 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

Section 15 – Regulatory Information

NOTE: THE PRODUCT LISTED ON THIS SDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS SDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

Section 16 – Other Information

Preparation Date June 19, 2018

Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Attention: Receiver of the chemical goods / SDS coordinator

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution[®] initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data

Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

References:

- 1) CHEMINFO
- 2) eChemPortal
- 3) TOXNET
- 4) Transportation of Dangerous Goods Canada
- 5) HSDB
- 6) ECHA

ClearTech Industries Inc. - Locations

Corporate Head Office: 1500 Quebec Avenue, Saskatoon, SK, S7K 1V7

Phone: 1(306) 664 – 2522

Fax: 1(888) 281-8109

www.cleartech.ca

24 Hour Emergency Number - All Locations – 1(306) 664-2522