

Date of issue: 15 September 2025
Revised by: Simonne Moses - HSNO Consultant SDS No: 1

Safety Data Sheet

Propylene Glycol

Classified as: Non-hazardous according to the EPA Hazardous Substances (Hazard Classifications) Notice 2020.

Section 1: SUBSTANCE AND SUPPLIER DETAILS

Product Name: Propylene Glycol

Supplier: Elementum Specialties Ltd
Suite 4, 443 Lake Road
Takapuna
Auckland 0622
New Zealand

Phone: +64 22 027 3992

Website: www.elementumspecialties.co.nz

Recommended Use: Various industrial uses.

In Case of Emergency Contact:

CHEMCALL: 0800 CHEMCALL (243 622)

Section 2: HAZARDS IDENTIFICATION

This product is not classified as a Dangerous Good for Transport.

This product is not classified as hazardous according to criteria in the EPA Hazardous Substances (Hazard Classifications) Notice 2020.

HSNO APPROVAL NUMBER: **Not applicable**

HSNO CLASSIFICATIONS: Not applicable

GHS Classification: Not applicable

Hazard Statements: None.

GHS Pictograms: None

PREVENTION STATEMENTS: None

RESPONSE STATEMENTS: None

STORAGE: None

DISPOSAL:
Refer to Section 13 of the SDS.

Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Single component:

Main Component	CAS Number	Concentration (%wt)
Propylene Glycol	57-55-6	≥ 99.5%

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Section 4: FIRST AID MEASURES

Workplace Facilities Required:	Eyewash and hand-washing facilities should be provided where large quantities are handled or stored.
If Inhaled:	Remove to fresh air. Seek medical attention if symptoms develop and persist.
In Contact with Eye:	Hold eyes open, flush continuously with water for at least 15 minutes. Seek medical attention if irritation develops and persists.
In Contact with Skin:	Wash skin with plenty of water, while removing contaminated clothing and shoes. Wash contaminated clothing before re-use. Seek medical attention if skin irritation develops and persists.
If Swallowed:	DO NOT INDUCE VOMITING. Rinse mouth. Give small quantities of water. Never give anything by mouth to an unconscious person. If unconscious, seek immediate medical attention. If vomiting occurs, keep head below hips to prevent aspiration to lungs.
Advice to Doctor:	Treat symptomatically.

Section 5: FIRE FIGHTING MEASURES

Fire/Explosion Hazard:	Product is not flammable or combustible. Fire-exposed containers may rupture.
Suitable Extinguishing Media:	Use carbon dioxide, alcohol-resistant foam, water spray, or dry powder. Do not use water jet as this may spread the fire.
Precautions in Connection with Fire:	Decomposes when heated to form toxic compounds including formaldehyde and other aldehydes, and oxides of carbon.
Advice for firefighters:	Wear full firefighting gear and self-contained breathing apparatus. Avoid inhaling vapours. Remove exposed containers from path of fire if safe to do so. Cool fire-exposed containers with water spray.

Section 6: ACCIDENTAL RELEASE MEASURES

Precautions:	Keep unnecessary and unprotected personnel from entering area. Avoid generating vapour or high concentrations of mist/spray.
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Suitable Protective Equipment:	Emergency responders should use personal protective equipment, including gloves, and safety glasses with side shields. If vapours or high concentrations of mist/spray are present, wear respiratory protection.
Spill or Leak Procedures:	Stop leak and contain spill. Use inert absorbent material such as sand or earth to soak up spill. Collect into a suitable waste container for disposal. Ensure waste container is properly labelled.
Waste Disposal Methods:	Dispose of as per Section 13.
Emergency preparation:	Ensure there is appropriate and adequate personal protective equipment, trained personnel and clean up materials for management of accidental release.

Section 7: HANDLING AND STORAGE

Precautions for Safe Handling:	Avoid heating to decomposition, and generating vapours or high concentrations of mist/spray. Avoid contact with eyes. Do not eat, drink, or smoke when using this product. Remove contaminated clothing and wash hands and face before entering eating areas.
Storage:	Product is hygroscopic, protect from moisture. Keep in original labelled container. Keep container tightly closed when not in use. Store in a cool, dry, well-ventilated area.
Site Storage Requirements:	No special requirements. For incompatibilities refer to Section 10.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Workplace Exposure Standards NZ:	Propylene glycol, Particulates only: TWA 10 mg/m ³ Propylene glycol, Vapour and particulates: TWA 150 ppm, 474 mg/m ³
Engineering Controls:	Eyewash facilities and hand-washing facilities or safety showers should be provided in the work area where there is a risk of exposure to eyes and skin. Where use generates vapour/mist/spray, engineering controls should be in place to ensure workplace exposure limits are not exceeded.
Personal Protective Equipment:	Avoid contact with eyes. Avoid inhaling vapour/mist/spray.
Hand protection:	If handling large quantities, wear protective gloves that are resistant to the product, e.g., PVC. Refer to Australian and New Zealand Standard AS/NZS 2161 for protective gloves.
Skin and body protection:	Use protective clothing if handling large quantities. Remove any contaminated clothing to avoid prolonged contact with the skin. Wash work clothes regularly. Refer to Australian and New Zealand Standard AS/NZS 4501 for occupational protective clothing.
Eye protection:	Use safety glasses with side shields to protect eyes. Refer to AS/NZS 1336 for suitable eye and face protection.
Respiratory protection:	If vapour/mist/spray is present, use a respirator suitable for organic materials.
Other information:	PPE selected must be impervious to the substance. Do not eat, smoke, or drink where material is handled, processed, or stored. Wash hands carefully before

eating, drinking, or smoking. Handle in accordance with safe industrial hygiene practices.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Description:	Liquid, slightly viscous	Colour:	Colourless
Odour:	Bitter odour	Odour Threshold:	Not available
pH (20°C):	Not applicable	Solubility (water, 25°C):	Miscible
Freezing/Melting point:	-59°C	Boiling Point:	187.2°C
Flammability:	Non-flammable	Flash Point:	99°C
LEL/UEL:	2.6 – 12.6 % v/v	Vapour Pressure (25°C):	0.02 Pa
Decomposition Temp:	Not available	Autoignition Temp:	371°C
Density:	1.03 g/cm ³	Vapour Density (20°C):	2.62 (air = 1)
Partition Coefficient: n-octanol/water (20°C)	Log Kow 1.07	Viscosity, kinematic (25°C):	43.4 mPa.s
Particle Characteristics:	Not applicable		

Section 10: STABILITY AND REACTIVITY

Stability:	Stable under normal storage conditions.
Reactivity:	None expected under normal conditions of use.
Conditions to Avoid:	Extreme heat, exposure to moisture. Product is hygroscopic and will absorb water from air.
Incompatibility:	Strong oxidisers, isocyanates, strong acids.
Hazardous Decomposition:	Thermal decomposition may result in toxic fumes containing aldehydes, including formaldehyde, and oxides of carbon.

Section 11: TOXICOLOGICAL INFORMATION

Acute Exposure

Acute Toxicity:	Not classified as acutely toxic. LD ₅₀ oral > 2,000 mg/kg. LD ₅₀ dermal > 2,000 mg/kg LC ₅₀ inhalation > 5 mg/L (mist)
Inhalation:	Not expected to be a respiratory irritant.
Ingestion:	Not expected to be acutely toxic via ingestion. Ingesting large quantities may cause gastrointestinal irritation, nausea, and vomiting.
Skin Corrosion/Irritation:	Not expected to be corrosive or irritating to skin.
Serious Eye Damage/Eye Irritation:	Not expected to be corrosive or irritating to eyes.
Respiratory or Skin Sensitisation:	No information available. Not expected to be a respiratory or contact sensitiser.

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Chronic Exposure:

Mutagen/Carcinogen/Reproductive Toxicant No information available. Product is not expected to be mutagenic, carcinogenic or a reproductive toxicant.

Specific Target Organ Toxicity Single Exposure: No information available. Not expected to be a specific target organ toxicant by single exposure.

Specific Target Organ Toxicity Repeated Exposure: No information available. Not expected to be a specific target organ toxicant by repeated exposure.

Aspiration Hazard: No information available. Not expected to be an aspiration hazard.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Product is not classified as toxic or harmful to the aquatic or terrestrial environments.

Persistence/degradability: Readily biodegradable.

Bioaccumulation: Not expected to bioaccumulate.

Mobility in soil: No information available.

Other adverse effects: None identified.

Ingredients with Ecotoxic classifications: There are no ingredients in the formulation with environmental hazards.

Section 13: DISPOSAL CONSIDERATIONS

Disposal: Recycle and reuse wherever possible. Dispose of waste product via an approved waste disposal contractor.

Disposal of Packaging: Dispose of packaging via an approved waste disposal contractor.

Section 14: TRANSPORT INFORMATION

This product is not classified as a Dangerous Good for transport in accordance with NZS5433:2020, IMDG or IATA.

Ensure transportation methods prevent leakage from packages and collapsing loads.

Section 15: REGULATORY INFORMATION

Group Standard Allocation: Not applicable

HSNO Approval Code: Not applicable

Classifications: Not applicable, non-hazardous

NZ Inventory of Chemicals: Not applicable

Compliance Certificate N/A

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This substance triggers:	Certified Handler	N/A
	Emergency Response Plan	N/A
	Secondary Containment	N/A
	Signage	N/A

Section 16: OTHER INFORMATION

The information provided in this Safety Data Sheet relates only to the specific material designated herein. This Safety Data Sheet summarises our best knowledge of the health and safety hazard information of the product and how to safely handle the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including its use in conjunction with other products.

This substance is non-hazardous. All reasonable care has been taken to ensure that the information and advice contained herein are from sources believed to be reliable and to represent the most up-to-date knowledge available at the date given in Section 16. No liability is assumed for any damages related to the use or misuse of this substance.

All chemical materials may present unknown hazards as people have varying degrees of sensitivity to chemicals. Therefore, this product should be used with caution. The information herein is given in good faith, but no warranty, express or implied is made.

SDS Issued: 15 September 2025

Reason for Revision: Update to New Zealand regulatory requirements.

References:

Original SDS: Jiangsu SPEC New Energy Technology Co. Ltd, China, Propylene Glycol SDS, August 2022

Summary of Abbreviations: EPA – Environmental Protection Authority
GHS – Global Harmonisation System
CAS - Chemical Abstracts Service
TWA – Time Weighted Average

END OF SAFETY DATA SHEET