

SAFETY DATA SHEET

1. IDENTIFICATION

Product Name: MONOPROPYLENE GLYCOL

Recommended Use: Raw material in food, cosmetic and pharmaceutical industries

Supplier: TMK Packers Ltd

Address: 22 Trugood Drive, East Tamaki, Auckland 2013
PO Box 258 031, Botany, Auckland 2163

Telephone: (+64) 9 273 3753

Facsimile: www.tmkpackers.co.nz

Emergency phone: 0800 273327 (TMK Packers Ltd 24 Hr)

National Poisons Centre: 0800 POISON [0800 764 766]



2. HAZARDS IDENTIFICATION

Hazardous Nature:

This product is classified as non-hazardous under GHS (7th revised edition) in accordance with the New Zealand Hazardous Substances (Hazard Classification) Notice 2020.

3. COMPOSITION INFORMATION

Chemical Ingredient	CAS No.	Proportion (%)
Propylene glycol	57-55-6	100

4. FIRST AID MEASURES

For advice, contact National Poisons Centre (0800 POISON; 0800 764 766) or a doctor. Have product container or label available.

Swallowed

If swallowed, do NOT induce vomiting. Rinse mouth. Give water to drink. Get medical advice if concerned or person feels unwell.

Skin Contact

If skin contact occurs, remove contaminated clothing and wash skin with soap and water.

Eye Contact

Hold eyelids apart and flush the eye continuously with running water. Continue flushing for at least 15 minutes. Remove contact lenses if present and easy to do, after the first 5 minutes and continue rinsing. Get medical attention if irritation persists.

Inhalation

Move the victim to fresh air immediately. Keep warm and at rest until recovered. Get medical attention if symptoms continue. Begin artificial respiration if breathing has stopped and get immediate medical attention.

First Aid Facilities: Provide eye bath.

Advice to Doctor: Treat according to symptoms.



5. FIRE FIGHTING MEASURES

Flashpoint: Non-flammable
Flammable limits: LFL: not applicable UFL: not applicable

Extinguishing media:

Water spray, foam, dry chemical or CO₂.

Fire & Explosion hazards: Do not breathe smoke or fumes.

Firefighting Equipment: Full protective clothing and self-contained breathing apparatus (SCBA).

In event of fire:

- Alert Fire Bridge (111); advise location and nature of hazard.
- Wear breathing apparatus and protective gloves.
- Shut off product that may 'fuel' a fire if safe to do so.
- If safe, switch off electrical equipment.
- Allow trained personnel to attend a fire in progress, providing fire-fighters with this Safety Data Sheet.
- Prevent product and extinguishing media from escaping to drains and waterways.

Hazards from combustion products:

Thermal decomposition may produce aldehydes, carbon dioxide and carbon monoxide.

Hazchem Code: Not applicable.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures & Containment:

Refer to "Fire Fighting Measures", "First Aid Measures" and "Stability and Reactivity".

Minor spills

- Remove or eliminate all ignition sources.
- Clean up spills immediately.
- Avoid breathing vapours and contact with skin and eyes.
- Wear personal protective equipment.
- Contain and absorb small quantities with vermiculite or other absorbent material.
- Collect residues and waste material in a labelled container.
- Seal container and dispose of safely.

Major spills

- Clear area of personnel and move upwind.
- Alert Fire Bridge (111); advise location and nature of hazard.
- Wear breathing apparatus plus protective gloves.
- Stop leak if safe to do so.
- Contain spill with sand, earth or vermiculite.
- Prevent by any means available, spillage from entering drains, sewers, watercourses, or low-lying areas.
- Eliminate sources of ignition.
- Increase ventilation.
- Collect recoverable product into labeled containers for recycling.
- Absorb remaining product with sand, earth or vermiculite.
- Collect solid residues and seal in labelled drums that can be sealed for disposal.



- Wash area and prevent run off into drains.
- If contamination of drains or waterways occurs, advise Emergency Services and Local or Regional authority.

7. HANDLING AND STORAGE

Precautions for safe handling:

Read product label before use. Wear gloves and wash hands with soap and water after handling. Avoid breathing vapours or mists.

Conditions for safe storage:

Store in original packaging in a cool, dry place away from direct sunlight. Avoid conditions of high temperature or moisture. Check containers periodically for leaks.

Incompatible materials:

Strong oxidizing agents, strong alkalis, strong acids.

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

Health Exposure Standards:

A Workplace Exposure Standard (WES) has been set for this product.

	WES-TWA
Propylene glycol, vapour & particulates	474 mg/m ³ (150 ppm)
Propylene glycol, particulates only	10 mg/m ³

Biological limit values: Not set.

Engineering Controls:

Ventilation: Ensure ventilation is adequate to maintain concentrations below the WES-TWA limits.

If product being used at elevated temperature or as aerosol, mist or spray, then use local exhaust ventilation or wear a respirator.

Personal Protective Equipment:

Respiratory Protection: If natural ventilation is inadequate to maintain concentration below limits, wear a filter respirator meeting AS/NZS 1715 and AS/NZS1716 and suitable for organic vapours/particulates.

Eye Protection: Protect eyes from splashes. Always use safety glasses with side shields, or goggles.

Skin/ Body Protection:

Wear gloves, e.g. PVC nitrile, neoprene, also safety footwear or safety gumboots, e.g. rubber, and coveralls or clothes with long sleeves and long trousers.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical value
Appearance	-	Clear colourless liquid
Odour	-	Non-specific
Flash Point	°C	107
Specific gravity @ 20°C	g/ml	1-38
Vapour Pressure @ 25°C	Pa	29.3
Vapour Density @ 20°C	kPa	2.62
Explosive Limits in Air	%	Not available
Viscosity	cSt	43
Volatiles	%vol/vol	Nil

Product: TMK Monopropylene Glycol
 Date of Issue: 26th February, 2025

Page 3 of 6



Alkalinity/acidity (as pH)

-

Not applicable

Solubility in Water

% w/w

Complete

The values listed are indicative of this product's physical and chemical properties.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable at room temperature and pressure and under normal conditions of use.

Conditions to avoid: High temperature and moisture, contact with high pressure gases.

Hazardous decomposition products: No decomposition products except on burning.

See "Fire Fighting Measures" and "Hazardous Reactions".

Hazardous reactions: Strong oxidizing agents, strong acids, strong alkalis.

11. TOXICOLOGICAL INFORMATION

Acute Effects:

Ingestion

If swallowed in large amounts, gastrointestinal disturbances may result.

Eye Contact

This product may be slightly irritating to the eyes.

Skin Contact

This product may be slightly irritating to skin with prolonged or repeated exposure.

Inhalation

The inhalation of mists, vapours or particulates may irritate respiratory system.

Chronic Effects:

No specific ill-effects identified.

Other Health Effects Information:

No specific ill-effects identified.

Toxicological Information:

Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Aquatic toxicity:

Product has not been identified as being ecotoxic to aquatic life.

Persistence/degradability:

Expected to be readily biodegradable and non-persistent in

environment. **Mobility:**

Very soluble in water.

Other information:

Not available.

Environmental Exposure Standards: Not set.

13. DISPOSAL CONSIDERATIONS

Disposal Methods:

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national, regional and local authority regulations. Packaging may still contain product residue. Triple rinse empty containers with water and recycle washings whenever possible. Ensure that empty packaging is allowed to dry.

14. TRANSPORT INFORMATION

UN Number:

Not regulated

Product: TMK Monopropylene Glycol

Date of Issue: 26th February, 2025

Page 4 of 6



Shipping name:
Class:
Packing group:
Hazchem code:**Dangerous Goods Segregation**This product is not classified as a Dangerous Good.
Please consult NZS 5433:2020 Transport of Dangerous Goods on Land for information.**15. REGULATORY INFORMATION**Country/ Region: New Zealand
Inventory: NZIoC
Status: Listed

EPA New Zealand Approval Code: Not applicable (non-hazardous)

16. OTHER INFORMATIONIssue number: 6
Date of Issue: 26th February 2025
Reasons for Issue: Update format, minor amendments/updates
Replaces: 1st September 2023**Abbreviations:**

ACGIH	American Conference of Governmental Industrial Hygienists
AS/NZS	Standards Australia & Standards New Zealand
BCF	Bioconcentration Factor
BEI	Biological Exposure Index
CAS	Chemical Abstracts Service
CCID	Chemical Classification and Information Database
EC50	Effective Concentration, 50 per cent
EPA	Environmental Protection Authority
GHS	Globally Harmonized System of Classification and Labelling of Chemicals
GHS 7	Globally Harmonised System of Classification and Labelling of Chemicals, 7th revised edition, 2017, published by the United Nations
HSNO	Hazardous Substances and New Organisms Act 1996
HSWA	Health and Safety at Work Act 2015
IARC	International Agency for Research on Cancer
IC50	Half Maximal Inhibitory Concentration
LC50	Lethal Concentration, 50 per cent
LD50	Lethal Dose, 50 per cent
LEL	Lower Explosive Limit
LOAEL	Lowest-observed-adverse-effect level N/R: Not Regulated
NOAEL	No-observed-adverse-effect-level
NOEC	No Observed Effect Concentration
NZIoC	New Zealand Inventory of Chemicals
NZS 5433	New Zealand Standard Transport of Dangerous Goods on Land
OECD	Organisation for Economic Co-operation and Development
STEL	Short-Term-Exposure Limit
TLV	Threshold Limit Value
TWA	Time-Weighted Average
UEL	Upper Explosive Limit

Product: TMK Monopropylene Glycol
Date of Issue: 26th February, 2025

Page 5 of 6



WES Workplace Exposure Limit

References:

Supplier Safety Data Sheet

EPA website: www.epa.govt.nz

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. For further information, please contact TMK Packers Ltd.

END OF SAFETY DATA SHEET

