



Product Data Sheet

Product Type
Chemical

Product Name
Monoethylene Glycol (MEG)

Issue date : 1 May 2025 (Revision 1.0.4)

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

Product Type	Chemical Family	Synonyms	Relevant identified uses
Chemical	Glycol	Monoethylene Glycol (MEG)	Industrial solvent, antifreeze, polyester intermediate

Details of the supplier of the safety data sheet : **MYRIAD PTY LTD**
Emergency telephone number: +27107861324

Section 2: Hazard Identification

GHS Classification

Acute Toxicity (Oral) Cat. 4; STOT (Repeated exposure) Cat. 2

Signal Word

WARNING

Hazard Statements

Harmful if swallowed. May cause kidney damage after prolonged exposure.

Precautionary Statements

Avoid breathing vapors. Wash hands thoroughly after handling. Do not eat or drink while using.

Section 3: Composition/Information on Ingredients

- Substance: Monoethylene Glycol
- Purity: ≥99,5%
- CAS Number: 107-21-1

Section 4: First-Aid Measures

Inhalation

If exposed to fumes from overheating or combustion, move the person to fresh air. Seek medical attention if symptoms persist.

Skin Contact

Wash with soap and water.

Eye Contact

Flush eyes with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.

Ingestion

Do not induce vomiting. Seek medical attention immediately.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

Water spray, dry chemical, foam, or CO₂ extinguishers.

Hazardous Combustion Products

Carbon monoxide, carbon dioxide, other organic compounds.

Special Fire-Fighting Procedures

Firefighters should wear self-contained breathing apparatus (SCBA) and full protective gear.

Section 6: Accidental Release Measures

Avoid skin contact. Prevent product from entering drains. Absorb spill with inert material and dispose properly.

Section 7: Handling and Storage

Use only in well-ventilated areas. Store in tightly closed containers away from heat and oxidizing materials.

Section 8: Exposure Controls/Personal Protection

TLV: 50 ppm (vapor). Use local ventilation. Wear gloves, goggles, and protective clothing.

Section 9: Physical and Chemical Properties

Product Description

Monoethylene Glycol (MEG) is a colorless, odorless, and hygroscopic liquid used as a key raw material in polyester fibers, PET resins, antifreeze, and other industrial applications.

Applications

- a key raw material in polyester fibers
- PET resins
- Antifreeze
- and other industrial applications.



Product Data Sheet

Product Type
Chemical

Product Name
Monoethylene Glycol (MEG)

Issue date : 1 May 2025 (Revision 1.0.4)

Typical data

Property	Specification
Appearance	Colourless, transparent
Purity	99.8 wt% min
Colour (Pt-Co)	5 max
DEG (Diethylene Glycol)	0.08 wt% max
Water	0.08 wt% max
Specific Gravity (20/20°C)	1.1151 – 1.1156
Boiling Range at 0.1013 Mpa	196°C (5% vol) – 199°C (95% vol)
Aldehydes (as Formaldehyde)	8 mg/kg max
Acidity (as Acetic Acid)	10 mg/kg max
Iron (as Fe)	0.1 mg/kg max
Inorganic Chlorides (as Cl)	0.05 mg/kg max
Ash	50 mg/kg max (by request 10 mg/kg max)
UV Transmittance at 220 nm	80 min
UV Transmittance at 275 nm	95 min
UV Transmittance at 350 nm	99 min

- Appearance: White or colored pellets, granules, or powder
 - Appearance: Clear, colorless liquid
 - Boiling Point: 197°C
 - Melting Point: -13°C
 - Flash Point: 111°C (closed cup)
 - Density: 1.11 g/cm³
 - Solubility: Miscible with water

Section 10: Stability and Reactivity

Stable under normal use. Avoid strong oxidizers and acids.

Section 11: Toxicological Information

- LD50 Oral (rat): 4700 mg/kg
- Chronic exposure may cause kidney effects.

Section 12: Ecological Information

- LC50 Fish (96h): >10,000 mg/L
- Readily biodegradable. Low bioaccumulation.

Section 13: Disposal Considerations

Dispose according to local regulations. Do not release to environment.

Section 14: Transport Information

- UN Number: Not regulated as a dangerous good.
- DOT, IATA, IMDG: Not classified as hazardous for transport.

Section 15: Regulatory Information

Complies with OSHA HCS (29 CFR 1910.1200) and EU CLP Regulation.

Section 16: Other Information

- This Safety Data Sheet is provided for guidance and informational purposes only.
- The data described in this SDS are based on current knowledge as of the date of preparation and are subject to change as new information becomes available.
- Users are responsible for the safe handling and proper use of the product.