



SAFETY DATA SHEET

NavXport Worldwide

Product: TRIETHYLENE GLYCOL (TEG)

SECTION 1: Product and Company Identification

Product Name	TRIETHYLENE GLYCOL (TEG)
Chemical Name	2,2'-(ethylenedioxy)diethanol
Company	NAVXPORT WORLDWIDE NMR -A-47, New Minal, Govindpura Industrial Area, Bhopal-462023, MP, INDIA
Emergency Contact	+91 96329 45556 +91 93138 27100
Email	sales@navxport.com
Recommended Use	Chemical, antifreezing agent, Intermediate, solvent, Monomer.

SECTION 2: Hazards Identification

Classification: No need for classification according to GHS criteria for this product.

Label Elements: The product does not require a hazard warning label in accordance with GHS criteria.

Other Hazards: High risk of slipping due to leakage/spillage.

SECTION 3: Composition / Information on Ingredients

Component	CAS-No.	Weight %
Triethylene Glycol	112-27-6	>= 99.5%

SECTION 4: First Aid Measures

Inhalation	Keep patient calm, remove to fresh air.
Skin Contact	Wash thoroughly with soap and water. Remove contaminated clothing.
Eye Contact	Wash affected eyes for at least 15 minutes under running water with eyelids held open.
Ingestion	Rinse mouth and then drink 200-300 ml of water.
Note to Physician	Treat symptomatically (decontamination, vital functions). No specific antidote known.

SECTION 5: Fire Fighting Measures

Extinguishing Media: Dry powder, water spray, carbon dioxide, alcohol-resistant foam. Do not use water jet for safety reasons.

Specific Hazards: The product is combustible. Thermal decomposition may release carbonyl compounds and Dioxolan derivatives.

Protection: Wear self-contained breathing apparatus and protective suit.

SECTION 6: Accidental Release Measures

Personal Precautions: Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment.

Environmental Precautions: Discharge into the environment must be avoided.

Methods for Cleaning: Spills should be contained, solidified, and placed in suitable containers for disposal. High risk of slipping.

SECTION 7: Handling and Storage

Handling: Handle in accordance with good industrial hygiene and safety practice. Protection against fire and explosion is not typically required as the substance is non-flammable.

Storage: Keep container tightly closed and dry in a cool place (< 40°C). Protect from air, light, and atmospheric humidity. Storage stability is 12 months.

SECTION 8: Exposure Controls / Personal Protection

Exposure Limits	No substance-specific occupational exposure limits known.
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Respiratory	Gas filter for organic gases/vapours (Type A) if ventilation is inadequate.
Hands	Chemical resistant gloves (e.g., nitrile rubber 0.4mm, butyl rubber 0.7mm).
Eyes	Safety glasses with side-shields (EN 166).
Body	Closed work clothing; apron or chemical-protection suit in case of splashes.

SECTION 9: Physical and Chemical Properties

Appearance	Colourless, clear liquid	Odour	Almost odourless
pH	7.4 (500 g/kg, 20°C)	Density at 15 °C	1.13 g/cm ³
Boiling Point	286.5 °C	Solubility	Miscible in water (20°C)
Flash Point	176 °C (Open Cup)	Molar Mass	150.17 g/mol
Viscosity	47.8 mPa.s (20°C)	Vapour Pressure	0.000655 hPa (24.7°C)

SECTION 10: Stability and Reactivity

Stability: Stable under recommended storage conditions.

Incompatibility: Strong oxidizing agents. Avoid humidity, daylight, and temperatures > 40°C.

Hazardous Reactions: No hazardous reactions if stored and handled as prescribed.

SECTION 11: Toxicological Information

- **Acute Oral Toxicity:** LD₅₀ rat > 18,080 mg/kg (Virtually nontoxic).
- **Skin/Eye Irritation:** Non-irritant (rabbit).
- **Sensitization:** Non-sensitizing (guinea pig).
- **Repeated Dose:** May cause kidney damage after repeated ingestion of high doses (animal studies).

SECTION 12: Ecological Information

Aquatic Toxicity: High probability that the product is not acutely harmful to aquatic organisms (LC50 Fish > 10,000 mg/l).

Persistence: Readily biodegradable (25-92% BOD/ThOD in 28 days).

SECTION 13: Disposal Considerations

Must be disposed of or incinerated in accordance with local regulations.
Uncontaminated packaging can be re-used.

SECTION 14: Transport Information

DOT/IMDG/IATA: Not classified as a dangerous good under transport regulations.
No UN number assigned.

SECTION 15: Regulatory Information

Classified as non-hazardous according to GHS criteria. Ensure all local and national legislation is observed.

SECTION 16: Other Information

Disclaimer: This SDS is based on current knowledge and describes the product only with regard to safety requirements. It is not a Certificate of Analysis (CoA).