



# SWADESH(INDIA) CHEMICAL PVT.LTD.

## MATERIAL SAFETY DATA SHEET (MSDS)

### 1. PRODUCT NAME AND COMPANY IDENTIFICATION

**Product Name:**

- **Triethylene Glycol (TEG)**
- **Synonyms:** TEG, Triglycol, 2,2'-Ethylenedioxybis(ethanol)

**Manufacturer/Supplier:**

**Swadesh (India) Chemical Pvt. Ltd.**

**Address:**

Survey No: 512, Plot No. 7,  
Shri Hari Industrial Park,  
Kadadra Village, Near ZAK GIDC,  
Dehgam, Gandhinagar, Gujarat, India – 382330

**Contact:**

- Email: [business@swadeshindia.in](mailto:business@swadeshindia.in)
- Website: [www.swadeshindia.in](http://www.swadeshindia.in)

**Recommended Use:**

- Solvent, humectant, plasticizer, gas dehydration, and chemical intermediate.

### 2. COMPOSITION/INGREDIENT INFORMATION

Component	CAS No.	Concentration (%)
Triethylene Glycol	112-27-6	≥99%

**Additional Notes:** May contain trace impurities (ethylene glycol, diethylene glycol).



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## 3. HAZARDS IDENTIFICATION

### GHS Classification:

- Eye Irritation: Category 2 (H319)
- Skin Irritation: Category 3 (H316)
- Oral Toxicity: Category 5 (H303)

### Hazard Statements:

- Causes serious eye irritation.
- May cause mild skin irritation.
- May be harmful if swallowed in large quantities.

### Precautionary Statements:

- Wear eye/face protection (P305+P351+P338).
- Avoid prolonged skin contact (P264).

## 4. FIRST AID MEASURES

- **Eye Contact:** Rinse immediately with water for 15 minutes; seek medical attention.
- **Skin Contact:** Wash thoroughly with soap and water.
- **Ingestion:** Rinse mouth; do NOT induce vomiting. Seek medical advice if >30 mL is ingested.
- **Inhalation:** Unlikely (low volatility); move to fresh air if discomfort occurs.

## 5. FIRE FIGHTING MEASURES

- **Flash Point:** 165°C (COC)
- **Autoignition Temp.:** 371°C
- **Extinguishing Media:** Water spray, alcohol-resistant foam, CO<sub>2</sub>, dry chemical.
- **Special Hazards:** Combustible at high temps; emits toxic fumes (CO/CO<sub>2</sub>).
- **Protective Equipment:** Firefighters should use SCBA and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES (STEPS FOR SPILLS)

- Personal Precautions: Wear gloves, goggles, and protective clothing.
- Containment: Absorb with inert material (sand, vermiculite).
- Cleanup: Collect in sealed containers; avoid runoff into drains.
- Environmental Precautions: Prevent contamination of soil/waterways.



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## 7. HANDLING AND STORAGE

- **Handling:**
  - Use in well-ventilated areas.
  - Avoid contact with eyes/skin.
- **Storage:**
  - Keep in tightly closed containers.
  - Store away from oxidizers, acids, and heat sources.
  - Recommended temp: 15–30°C.

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

- **Engineering Controls:** Local exhaust ventilation.
- **PPE:**
  - Eye/Face: Safety goggles or face shield.
  - Skin: Nitrile or neoprene gloves; chemical-resistant apron.
  - Respiratory: Not typically required (low volatility).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Value
Appearance	Colorless viscous liquid
Odor	Odorless
Boiling Point	285°C
Melting Point	-7°C
Density (20°C)	1.125 g/cm <sup>3</sup>
Viscosity (25°C)	49 mPa·s
Solubility	Miscible in water, alcohols

## 10. STABILITY AND REACTIVITY

- **Stability:** Stable under normal conditions.
- **Incompatibilities:** Strong oxidizers (e.g., peroxides, nitric acid).
- **Hazardous Decomposition:** CO/CO<sub>2</sub> at high temps.



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## 11. TOXICOLOGICAL INFORMATION

### Acute Toxicity (Oral, Rat):

- Oral LD50 (rat): 17,000 mg/kg (low toxicity).
- Dermal LD50 (rabbit): >20,000 mg/kg.

### Irritation:

- Skin: Mild irritation (prolonged contact).
- Eyes: Moderate irritation.

**Chronic Effects:** No significant data (treat as low risk).

## 12. ECOLOGICAL INFORMATION

### Biodegradability:

- Readily biodegradable (>80% in 28 days).

### Aquatic Toxicity:

- Fish LC50 (96h): >1000 mg/L (low toxicity).

## 13. DISPOSAL CONSIDERATIONS

### Waste Disposal:

- Incinerate or dispose per local regulations for glycols.

## 14. TRANSPORT INFORMATION

### DOT/IMO/IATA:

- Not classified as dangerous goods

## 15. REGULATORY INFORMATION

### India:

- Compliant with CPCB regulations

### International:

- REACH registered
- OSHA compliant



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## 16. ADDITIONAL INFORMATION

**Revision Date :**20/04/24

**Disclaimer:** This MSDS is provided for informational purposes only. Users should make their own determination of suitability for any particular purpose.