

SAFETY DATA SHEET MONOETHYLENE GLYCOL

1. IDENTIFICATION

Trade name: ETHYLENE GLYCOL
CAS number: 107-21-1
EINECS number: 203-473-3

2. INFORMATION ON COMPOSITION

3. HAZARDS IDENTIFICATION

Main Hazards: Reproductive hazard. Harmful if swallowed.

4. FIRST-AID MEASURES

Skin contact: In case of skin contact. Flood the splashed area with large quantities of running water.

Eye contact: If the substance has entered the eyes, wash out with water or saline solution for at least 15 mins.

Ingestion: If the chemical has been confined to the mouth give large quantities of water as mouthwash. Ensure that mouthwash is not swallowed. If the chemical has been swallowed, give about 250ml of water to dilute it in the stomach. Obtain medical attention.

Inhalation: Remove the casualty out of the danger area after first ensuring your own safety. Loosen the patient's clothing. If the casualty is unconscious, place in the recovery position and monitor breathing. Apply artificial respiration ONLY if patient is not breathing. Seek medical attention when anyone has symptoms apparently due to swallowing or inhalation.

5. FIRE FIGHTING MEASURES

Exposure Hazards: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Emits toxic fumes under fire conditions.

Suitable Extinguisher: Water spray, carbon dioxide, dry chemical powder or appropriate foam.

6. ACCIDENTAL RELEASE MEASURES

Personal protection: Wear self-contained breathing apparatus, rubber boots and heavy duty rubber gloves.

Leaks & Spills: Sweep up spilled substance but avoid making dust. Transfer to a disposable salvage container for disposal by an appropriate method or retain for recovery.

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7. HANDLING AND STORAGE

Handling requirements: Wear approved respirator, chemical-resistant gloves, safety goggles and protective clothing. Handle in well ventilated area. Have safety shower and eye bath to hand. Do not breathe vapour. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

Storage: Keep container tightly closed. Hygroscope. Store in a cool dry area.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protection: Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.

Exposure limits: 60 mg/m³ – TWA

Type: ORL-HMNL DLO

Toxicity: 786 mg/kg

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical formula: C₂H₆O₂

Appearance: Viscous colourless liquid.

Boiling Point/range °C: 196-198

Melting Point/range °C: -13

Flash point: 109

Autoflammability °C: 399

Vapour pressure: 0.8 mm 20°C

Relative density: 1.113

10. STABILITY AND REACTIVITY

Avoid contact with: Strong oxidising agents. Strong bases.

11. TOXICOLOGY INFORMATION

Health effects: Skin: Harmful if absorbed through the skin. The liquid irritates and decreases the skin. Contact with the skin can cause dermatitis.

Eyes: The vapour and liquid is irritating to the eyes.

Inhalation: Harmful if inhaled. High concentrations are extremely destructive to tissues of the mucous membranes and upper respiratory tract. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. The vapour has narcotic effects and in high concentration includes unconsciousness.

Ingestion: Harmful if swallowed. Ingestion may cause nausea, vomiting and symptoms of damage to the central nervous system. Ingestion of large amounts could cause kidney damage.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Data not available

Persistence: Data not available

Appraisal: Data not available

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13. DISPOSAL CONSIDERATIONS

Waste disposal: Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an after burner and scrubber.
Observe all national, regional and environmental regulations.

14. TRANSPORT INFORMATION

IMDG code

ADR/RID

IATA/ICAO

Index no.: 603-027-00-1

15. REGULATORY INFORMATION

Classification: Harmful

Risk Phrases: R22: Harmful if swallowed.

16. OTHER INFORMATION

Legal disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Chemical Treatment Services Ltd shall not be held liable for any damage resulting from handling or from contact with the above product