



Material Safety Data Sheet (MSDS) for Monoethylene Glycol (MEG)

Section 1: Identification

Product Name: Monoethylene Glycol (MEG)

Chemical Formula: C₂H₆O₂

Synonyms: Ethylene Glycol, 1,2-Ethanediol

CAS Number: 107-21-1

Manufacturer's Name: ATDMCO]

Emergency Contact: 00903125147055

Section 2: Hazard Identification

Classification:

Physical Hazards: Flammable liquid and vapor.

Health Hazards: Harmful if swallowed. Causes skin and eye irritation.

Environmental Hazards: Harmful to aquatic life.

Potential Health Effects:

Inhalation: Inhalation of vapors may cause respiratory irritation, headache, and dizziness.

Skin Contact: Contact may cause irritation, redness, and defatting of the skin.

Eye Contact: May cause irritation, redness, and blurred vision.

Ingestion: May cause gastrointestinal irritation, nausea, vomiting, and abdominal pain.

Section 3: Composition/Information on Ingredients

Chemical Name: Monoethylene Glycol (MEG)

CAS Number: 107-21-1

Concentration: 100%



Section 4: First Aid Measures

Inhalation: Remove to fresh air. If breathing difficulties persist, seek medical attention.

Skin Contact: Wash affected area with soap and water. Remove contaminated clothing. If irritation persists, seek medical attention.

Eye Contact: Flush eyes with water for at least 15 minutes. If irritation persists, seek medical attention.

Ingestion: Rinse mouth. Do not induce vomiting. Seek medical attention if symptoms occur.

Section 5: Fire-fighting Measures

Extinguishing Media: Use water spray, foam, dry chemical, or carbon dioxide.

Firefighting Instructions: Wear appropriate protective equipment. Evacuate the area if the fire is uncontrollable.

Section 6: Accidental Release Measures

Personal Precautions: Wear protective equipment. Avoid breathing vapors. Ventilate the area.

Environmental Precautions: Prevent material from entering drains or waterways.

Clean-up Procedures: Absorb spills with suitable absorbent material. Dispose of in accordance with local regulations.

Section 7: Handling and Storage

Handling: Use in well-ventilated areas. Avoid contact with eyes, skin, and clothing. Wash hands after handling.

Storage: Store in a cool, dry place away from heat sources and incompatible materials.

Section 8: Exposure Controls/Personal Protection

Exposure Limits: ACGIH TLV-TWA: 10 mg/m³ (as mist)

Personal Protective Equipment: Use gloves and safety glasses. Ensure adequate ventilation.

Section 9: Physical and Chemical Properties

Physical State: Liquid

Color: Colorless

Odor: Odorless

Melting Point: -12.9°C

Boiling Point: 197.3°C

Density: 1.113 g/cm³



Section 10: Stability and Reactivity

Stability: Stable under normal conditions.

Incompatibility: Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: May release toxic fumes when heated to decomposition.

Section 11: Toxicological Information

Acute Toxicity: LD50 (oral, rat) 4700 mg/kg

Skin Irritation: May cause irritation.

Eye Irritation: May cause irritation.

Section 12: Ecological Information

Ecotoxicity: Harmful to aquatic life. Do not release into waterways.

Section 13: Disposal Considerations

Dispose of in accordance with local, state, and federal regulations.

Section 14: Transport Information

UN Number: 3082

Shipping Name: Ethylene Glycol

Class: 9 (Miscellaneous dangerous goods)

Section 15: Regulatory Information

Follow all applicable regulations.

Section 16: Other Information

This information is provided in accordance with current regulations and is based on our knowledge and belief.