

HPEG 2400 (Methyl Allyl Alcohol Polyoxyethylene Ether) MSDS

Product Name and Identification

- **Product Name:** [HPEG 2400 \(Methyl Allyl Alcohol Polyoxyethylene Ether\)](#)
- **Chemical Formula:** (C₄H₈O)(C₂H₄O)_n
- **CAS Number:** [Insert CAS Number]
- **Relevant Uses:** Widely used as a raw material for polycarboxylate superplasticizers in construction and other industrial applications.
- **Manufacturer/Supplier:** [Insert Manufacturer Information]
- **Emergency Contact Number:** [Insert Emergency Contact Information]

Composition/Ingredients

- **Chemical Name:** Methyl Allyl Alcohol Polyoxyethylene Ether
- **Concentration:** Approximately 99%
- **CAS Number:** [Insert CAS Number]
- **EC Number:** [Insert EC Number]

Hazards Identification

- **Classification:**
 - Not classified as flammable.
 - May cause skin and eye irritation.
 - Long exposure may cause respiratory irritation.
- **Hazard Statements:**
 - H315: Causes skin irritation.
 - H319: Causes serious eye irritation.
 - H335: May cause respiratory irritation.
- **Precautionary Statements:**
 - P280: Wear protective gloves, protective clothing, and eye protection.
 - P305 + P351 + P338: IF IN EYES, rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
 - P302 + P352: IF ON SKIN, wash with plenty of soap and water.

First Aid Measures

- **General Advice:**
 - Seek immediate medical attention if any adverse health effects occur.
- **If Inhaled:**

- Move to an area with fresh air. Keep person calm and warm. If breathing issues or symptoms persist, seek medical attention immediately.
- **If on Skin:**
 - Wash with plenty of water and soap for at least 15 minutes. Remove contaminated clothing. Seek medical advice if irritation continues.
- **If in Eyes:**
 - Rinse thoroughly with water for several minutes, carefully removing contact lenses if applicable. Continue rinsing and consult a doctor if irritation occurs.
- **If Swallowed:**
 - Rinse mouth with water. Do not induce vomiting unless instructed by a healthcare professional. Seek medical attention immediately.

Handling and Storage

- **Handling:**
 - Use in a well-ventilated area. Avoid direct contact with skin, eyes, and clothing.
 - Do not ingest or inhale vapors directly. Take precautions to prevent spills and leaks.
- **Storage:**
 - Store in a tightly closed container in a cool, dry, and well-ventilated area.
 - Keep away from incompatible materials, strong oxidizers, and heat sources.

Exposure Controls/Personal Protection

- **Exposure Limits:**
 - No official exposure limits have been established. Maintain appropriate ventilation during handling.
- **Personal Protective Equipment (PPE):**
 - **Eye/Face Protection:**
 - Wear safety goggles or a face shield to prevent direct eye contact.
 - **Skin Protection:**
 - Use suitable chemical-resistant gloves and protective clothing as needed.
 - **Respiratory Protection:**
 - Use an appropriate respirator in poorly ventilated areas or where exposure limits may be exceeded.
 - **General Hygiene:**
 - Wash hands and any exposed skin thoroughly after handling. Avoid eating, drinking, or smoking in work areas.

Physical and Chemical Properties

- **Appearance:** Clear to slightly yellow liquid
- **Odor:** Mild, ether-like
- **pH (1% solution):** 6.0-8.0
- **Melting Point:** Not applicable

- **Boiling Point:** >200°C
- **Flash Point:** >150°C
- **Solubility:**
 - Soluble in water.
 - Miscible with most organic solvents.
- **Density:** ~1.06 g/cm³
- **Viscosity (at 25°C):** ~350-500 mPa·s

Stability and Reactivity

- **Stability:**
 - Stable under normal storage and handling conditions.
- **Reactivity:**
 - Reacts with strong oxidizers and acids.
- **Conditions to Avoid:**
 - Excessive heat, open flames, and incompatible substances.
- **Hazardous Decomposition Products:**
 - Carbon monoxide, carbon dioxide, and other potentially toxic fumes upon combustion.

Toxicological Information

- **Acute Toxicity:**
 - Moderate irritation to skin and eyes upon direct contact.
 - May cause respiratory irritation if inhaled in excessive concentrations.
- **Skin Irritation:**
 - Prolonged or repeated exposure may lead to irritation or redness.
- **Eye Damage:**
 - Causes irritation and potential temporary damage.
- **Chronic Effects:**
 - No chronic health effects are expected if used as directed.

Disposal Considerations

- **Waste Treatment Methods:**
 - Dispose of product in accordance with local, regional, and national regulations.
 - Do not release directly into sewers, waterways, or soil.
- **Packaging:**
 - Empty containers should be treated as hazardous unless thoroughly cleaned. Follow proper disposal guidelines for chemical containers.