

2-Ethylhexyl Methacrylate (EHMA) MSDS

1. Product Name and Identification

- **Product Name:** [2-Ethylhexyl Methacrylate \(EHMA\)](#)
 - **Chemical Formula:** C₁₂H₂₂O₂
 - **CAS Number:** 688-84-6
 - **Synonyms:** 2-Ethylhexyl ester of methacrylic acid
 - **Recommended Use:** Used in the production of polymers, coatings, adhesives, and resins.
 - **Manufacturer/Supplier Information:** [Insert Manufacturer Details Here]
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2. Composition/Ingredients

- **Chemical Name:** 2-Ethylhexyl Methacrylate
 - **CAS Number:** 688-84-6
 - **Concentration:** ≥ 99%
 - **Impurities:** Trace amounts of methacrylic acid (< 0.5%)
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3. Hazards Identification

- **Classification:**
 - Flammable Liquid (Category 3)
 - Skin Irritation (Category 2)
 - Eye Irritation (Category 2A)
 - Specific Target Organ Toxicity - Single Exposure (Category 3)
 - **Label Elements:**
 - **Signal Word:** Warning
 - **Hazard Statements:**
 - H226: Flammable liquid and vapor.
 - H315: Causes skin irritation.
 - H319: Causes serious eye irritation.
 - H335: May cause respiratory irritation.
 - **Precautionary Statements:**
 - P210: Keep away from heat, sparks, open flames, and hot surfaces.
 - P280: Wear protective gloves, clothing, and eye protection.
 - P304 + P340: If inhaled, remove person to fresh air and keep comfortable for breathing.
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4. First Aid Measures

- **Inhalation:** Move the person to fresh air. If breathing is difficult, provide oxygen and seek medical attention.
 - **Skin Contact:** Wash thoroughly with soap and water. Remove contaminated clothing. Seek medical advice if irritation persists.
 - **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
 - **Ingestion:** Do not induce vomiting. Rinse mouth with water. Seek immediate medical attention.
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5. Handling and Storage

- **Handling:**
 - Avoid inhalation of vapors or contact with skin and eyes.
 - Use in a well-ventilated area.
 - Keep away from sources of ignition.
 - **Storage:**
 - Store in a cool, dry, and well-ventilated area.
 - Keep container tightly closed.
 - Store away from oxidizing agents and strong acids.
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6. Exposure Controls/Personal Protection

- **Exposure Limits:** No established occupational exposure limits.
 - **Engineering Controls:** Use local exhaust ventilation to minimize exposure.
 - **Personal Protective Equipment (PPE):**
 - **Respiratory Protection:** Use an approved respirator if ventilation is inadequate.
 - **Skin Protection:** Wear chemical-resistant gloves and protective clothing.
 - **Eye Protection:** Use safety goggles or face shields.
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7. Physical and Chemical Properties

- **Appearance:** Clear, colorless liquid
- **Odor:** Mild, ester-like odor
- **Boiling Point:** 215–220°C (419–428°F)
- **Melting Point:** -50°C (-58°F)
- **Flash Point:** 90°C (194°F) (Closed cup)

- **Density:** 0.88 g/cm³ at 20°C
 - **Solubility:** Insoluble in water; soluble in organic solvents
 - **Vapor Pressure:** 0.1 mmHg at 20°C
 - **Viscosity:** Low viscosity
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8. Stability and Reactivity

- **Stability:** Stable under normal conditions of use and storage.
 - **Conditions to Avoid:** Heat, open flames, and sources of ignition.
 - **Incompatible Materials:** Strong oxidizing agents, acids, and bases.
 - **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide, and other toxic fumes may form during combustion.
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9. Toxicological Information

- **Acute Toxicity:**
 - LD50 (Oral, Rat): > 5000 mg/kg
 - LD50 (Dermal, Rabbit): > 3000 mg/kg
 - **Skin Irritation:** Causes moderate irritation.
 - **Eye Irritation:** Causes serious irritation.
 - **Inhalation:** May cause respiratory irritation.
 - **Chronic Effects:** Prolonged exposure may cause skin sensitization.
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10. Disposal Considerations

- **Waste Disposal Methods:**
 - Dispose of in accordance with local, regional, and national regulations.
 - Do not release into drains or the environment.
 - **Contaminated Packaging:**
 - Empty containers should be handled with care and disposed of properly.
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