# Material Safety Data Sheet (MSDS)

## Polycarboxylate Ether

**Revision Date**: 03-03-2026

**Version**: 1.0

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## Section 1: Product Identification

• **Product Name:** Polycarboxylate Ether

• **CAS No:** 70789-60-6

• **Recommended Use:** Used as a cement dispersant and superplasticizer in concrete and mortar formulations

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## Section 2: Hazards Identification

• **Classification (GHS):** Flammable liquids; Acute toxicity, Oral; Skin irritation; Eye irritation.

• **Signal Word:** Warning

• **Hazard Statements:**

- Harmful if swallowed

- Causes skin irritation and serious eye irritation

- Combustible liquid

- Keep away from heat/sparks/open flames. No smoking

- Wear protective gloves/eye protection

**- IF ON SKIN or IN EYES:** Rinse cautiously with water; seek medical advice if irritation persists

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## Section 3: Composition / Information on Ingredients

• **Concentration:** 98–99%

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## Section 4: First Aid Measures

• **Inhalation:** Remove to fresh air. If symptoms develop, seek medical attention.

• **Skin Contact:** Wash with plenty of 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. Continue rinsing. Seek medical attention if irritation persists.

• **Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical advice if feeling unwell.

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## Section 5: Fire-Fighting Measures

• **Suitable Extinguishing Media:** Dry chemical, foam, carbon dioxide water spray.

• **Specific Hazards:** Combustible liquid; emits toxic fumes of carbon oxides under fire conditions.

• **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

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## Section 6: Accidental Release Measures

• **Personal Precautions:** Use personal protective equipment. Avoid breathing vapors. Ensure adequate ventilation. Eliminate ignition sources.

• **Environmental Precautions:** Prevent entry into drains and waterways.

• **Cleanup Methods:** Absorb with inert material. Collect in suitable container for disposal.

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## Section 7: Handling and Storage

• **Handling:** Avoid inhalation of vapors and contact with skin/eyes. Use with adequate ventilation. Keep away from ignition sources.

• **Storage:** Keep container tightly closed. Store in a cool, dry, well-ventilated place away from heat and oxidizing agents.

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## Section 8: Exposure Controls / Personal Protection

• **Exposure Limits:** ACGIH TLV 50 ppm 205 mg/m$^3$ TWA; OSHA PEL not established.

• **Engineering Controls:** Provide adequate ventilation and local exhaust if needed.

• **Personal Protective Equipment:** Chemical-resistant gloves, safety goggles, protective clothing. Respirator if ventilation is inadequate.

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## Section 9: Physical and Chemical Properties

• **Appearance:** White to off-white powder

• **Boiling Point:** 250 °C

• **Flash Point:** 230 °C

• **Solubility:** Soluble in water; dispersible in aqueous media

• **Molecular Weight:** 75000 g/mol

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## Section 10: Stability and Reactivity

• **Stability:** Stable under normal conditions.

• **Incompatible Materials:** Strong oxidizing agents.

• **Hazardous Decomposition Products:** Carbon oxides under fire conditions.

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## Section 11: Toxicological Information

• **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.

• **Acute Effects:** Harmful if swallowed; causes skin and eye irritation; may cause respiratory irritation.

• **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis and liver/kidney effects.

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## Section 12: Ecological Information

• **Ecotoxicity:** May be harmful to aquatic life in high concentrations.

• **Persistence and Degradability:** Expected to be biodegradable.

• **Bioaccumulative Potential:** Low to moderate potential.

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## Section 13: Disposal Considerations

• Dispose of contents/container in accordance with local/regional/national regulations. Do not release into the environment.

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## Section 14: Transport Information

• **UN Number:** UN3077

• **Hazard Class:** Class 9

• **Packing Group:** III

• **Proper Shipping Name:** Polycarboxylate Ether

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## Section 15: Regulatory Information

• Complies with Indian chemical safety regulations and listed under international chemical inventories.

• Classified as hazardous substance as per GHS.

## Section 16: Other Information

- **Disclaimer:** The above information is believed to be correct but does not claim to be exhaustive. Users are responsible for verifying suitability under actual conditions of use. **Triveni chemicals** disclaim any liability for damage resulting from handling or contact.