

Material Safety Data Sheet (MSDS)

Polycarboxylate Superplasticizer

1. Product Identification:

Product Name: Polycarboxylate Superplasticizer

ASTM Stand: C494

EN Stand: 934-2

GB Stand:8076-2008

Synonyms: PCE Superplasticizer, Polycarboxylate Ether Superplasticizer

2. Composition/Information on Ingredients:

The exact composition of the polycarboxylate superplasticizer may vary depending on the manufacturer and specific formulation.

- Main Ingredients: TPEG / HPEG / APEG / MPEG
- Water
- Minor additives for stabilization and performance enhancement

3. Hazards Identification:

This product is not classified as hazardous according to OSHA Hazard Communication Standard (29 CFR 1910.1200) or other regulatory standards. However, it is recommended to handle this product with care to avoid potential irritation or allergic reactions.

4. First Aid Measures:

- Eye Contact: Flush eyes with plenty of water for at least 15 minutes. If irritation persists, seek medical attention.
- Skin Contact: Wash affected area with soap and water. If irritation occurs, seek medical advice.
- Inhalation: If inhaled, remove to fresh air. If breathing is difficult, seek medical attention.
- Ingestion: Rinse mouth with water. Do not induce vomiting. Seek medical attention if large quantities are ingested.

5. Fire-Fighting Measures:

- Suitable Extinguishing Media: Use water spray, foam, dry chemical, or carbon dioxide.
- Specific Hazards Arising from the Chemical: This product is not flammable. However, it may release irritating or toxic gases if involved in a fire.
- Special Protective Equipment and Precautions for Firefighters: Wear appropriate protective clothing and self-contained breathing apparatus (SCBA) to prevent exposure to fumes or gases.

6. Accidental Release Measures:

- Personal Precautions: Wear appropriate protective equipment (e.g., gloves, safety goggles) to minimize exposure.
- Environmental Precautions: Prevent product from entering drains, waterways, or soil. Contain spillage and collect with absorbent material.
- Cleanup Methods: Sweep or vacuum up spillage. Dispose of collected material in accordance with local regulations.

7. Handling and Storage:

- Handling: Avoid direct contact with skin and eyes. Use in a well-ventilated area. Wash hands thoroughly after handling.
- Storage: Store in a cool, dry place away from direct sunlight and sources of heat. Keep containers tightly closed when not in use.

8. Exposure Controls/Personal Protection:

- Respiratory Protection: Use appropriate respiratory protection if ventilation is inadequate.
- Eye Protection: Wear safety goggles or glasses to protect against splashes.
- Skin Protection: Wear chemical-resistant gloves and protective clothing to prevent skin contact.
- Engineering Controls: Ensure adequate ventilation to maintain airborne concentrations below occupational exposure limits.

9. Physical and Chemical Properties:

- Appearance: Liquid
- Color: Clear to pale yellow, brown
- Odor: Odorless to mild characteristic odor
- PH: Typically neutral to slightly acidic
- Solubility: Soluble in water
- Density: 1.03±0.05
- Flash Point: Not applicable (non-flammable)

10. Stability and Reactivity:

- Stability: Stable under normal conditions of use and storage.
- Incompatibility: Avoid contact with strong acids, alkalis, and oxidizing agents.
- Hazardous Decomposition Products: May release irritating gases if involved in a fire.

11. Toxicological Information:

- Acute Toxicity: Not highly toxic.
- Skin Irritation: May cause mild irritation upon prolonged or repeated contact.
- Eye Irritation: May cause mild irritation upon direct contact.
- Sensitization: May cause sensitization in susceptible individuals upon prolonged or repeated exposure.

12. Ecological Information:

- Ecotoxicity: Avoid release into the environment.

13. Disposal Considerations:

- Disposal Methods: Dispose of in accordance with local, state, and federal regulations. Consult with appropriate authorities for approved disposal methods.

14. Transport Information:

- Not regulated for transport.

15. Regulatory Information:

- This product is not classified as a hazardous substance in China or internationally. No special regulatory requirements. Refer to local regulations for specific requirements.

16. Other Information:

- This Material Safety Data Sheet (MSDS) is provided for informational purposes only and is based on the best available data at the time of preparation. It does not constitute a warranty or guarantee of the product's properties or performance. Users should conduct their own assessments to determine suitability for their intended applications.

17. Supplier Information:

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