

MATERIAL SAFETY DATA SHEET

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: CATAFOR PP-50

Chemical Nature: 50% quaternary ammonium ethosulphate in 50% tris
(2-chloro isopropyl) phosphate

Supplier's Name:

Telephone Numbers:

ACETO CORPORATION

CHEMTREC 1-800-424-9300

One Hollow Lane

OTHER INFORMATION 1-516-627-6000

Lake Success, NY 11042

DATE REVISED: October 1996

2. COMPOSITION/INFORMATION ON INGREDIENTS

| Ingredient Name | TLV (Units) | CAS Number |
|-------------------------------------|-------------|-------------|
| Quaternary ammonium ethosulphate | 50% | TSCA Listed |
| tris (2-chloro isopropyl) phosphate | 50% | 6145-73-9 |

3. HAZARDS IDENTIFICATION**Emergency Overview:**

- ... Viscous, colorless to pale yellow liquid with very slight odor.
- ... Harmful if swallowed. Causes burns.
- ... CORROSIVE.
- ... Does NOT present any particular fire hazard.

Potential Health Effects:

- ... Inhalation: Not specifically applicable.
- ... Eye Contact: Irritant.
- ... Skin Contact: Irritant. Prolonged or repeated contact with skin may cause dermatitis.
- ... Ingestion: Harmful if swallowed.

Overview: Irritant. Causes burns. CORROSIVE.**Toxicity:** LD 50 oral (Rat): 1000 mg/kg - 2000 mg/kg.
Toxic to aquatic organisms.

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4. FIRST AID MEASURES

- ... Inhalation: Not specifically applicable.
 - ... Eye Contact: IMMEDIATELY rinse with plenty of water for a prolonged period, while keeping the eyes wide open (for at least 15 minutes). Consult an eye specialist if necessary.
 - ... Skin Contact: Wash immediately with plenty of water. Remove all contaminated clothing and footwear.
 - ... Ingestion: If the person is fully conscious, make him/her drink plenty of water. NEVER give an unconscious person anything to drink. Consult a physician if necessary.
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5. Fire-fighting Measures

Flashpoint: >100°C (Open Cup)
Flammable Limits: N/A
Auto-ignition Temperature: N/A

- ... Fire Fighting Instructions: Toxic gases are released. Avoid contact with skin and eyes. Use protective gloves made of PVC. Use protective goggles and suitable protective clothing.
Extinguishing media: Water spray, foam, powders.
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6. Accidental Release Measures

- ... General: DO-NOT discharge into drains or rivers. Recover as much of the product as possible.
 - ... Disposal Method: Absorb with dry sand. If necessary, wash with water following recovery. Dispose of materials or solid residues in accordance with all federal and local laws.
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7. Handling and Storage

- ... General: Store only in the original container in a cool area. Store away from food, drinks and animal foodstuffs. Recommended packaging materials: Steel with an epoxy lining.

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- ... Eye Protection: Safety goggles.
 - ... Protective Gloves: Made of PVC.
 - ... Ventilation: Recommended. Mechanical also recommended.
 - ... Other Protective Equipment: Light overall.
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8. Physical and Chemical Properties

Appearance: Viscoud, colorless to pale yellow liquid. Very slight odor.
Vapor Pressure: N/A
Specific Gravity: 1.131 g/cm³ at 25°C.
Solubility in Water: An emulsion is formed.
Solubility in Inorganic Solvents: Readily soluble in organic polar solvents.
Reactivity in Water: None.
Boiling Point: N/A
Melting Point: Approx. 5°C (41°F)
Vapor Density: N/A
pH: 6 - 8 (Aqueous solution - 2 g/100ml).
Specific Temperatures: Solidification - 8°C

9. Stability and Reactivity

- ... General: Stable at room temperature.
 - ... Incompatible materials and conditons to avoid: Strong oxidizing agents.
 - ... Hazardous Polymerization: Will not occur.
 - ... Hazardous decomposition: On thermal decomposition (pyrolysis), releases nitrogen oxides, carbon oxides (CO + CO₂), sulphur oxides, phosphorus compounds and hydrochloric acid.
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NOTE: We believe that the information contained herein is current as of the date of this Material Safety Data sheet. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of Aceto Corporation, it is the user's obligation to determine the conditions of safe use of the product.