



MATERIAL SAFETY DATA SHEET

1. INGREDIENTS/APPLICATION

LK CHEM 3033 Antiscalant, Cooling tower feed water treatment for scale control

Synonyms Antiscalant,

OSHA PEL: Not Available

ACHIH TLV: Not Available

Other Exposure Limits: None Available

CAS No.: Not Applicable

2. PHYSICAL DATA

Boiling Point: 100°C

Freezing Point: 0°C

Vapor Pressure: 18 mm (Hg) @ 20°C

Vapor Density (Air = 1): Not Available

Solubility in Water: Complete

Specific Gravity (Water = 1): 1.00

PH: 7.0

Appearance: Clear Colorless solution.

Odor: Slight amine odor.

3. FIRE AND EXPLOSION DATA

Flash Point: Not Flammable

Flammable Limits: Not Flammable

Auto-ignition: Not Applicable, water solution

Extinguisher Media: Water, CO₂, Foam

Special Fire Fighting Procedures: Respiratory protection is required when fighting fire.

Unusual Fire and Explosion Hazards: Product is not flammable but will decompose in fire. Decomposition products may be toxic.

4. REACTIVITY DATA

Stability: Normally stable

Incompatibility (Materials to Avoid): Strong bases and oxidizing agents

Hazardous Decomposition Products: carbon monoxide and carbon dioxide and oxides of phosphorus may be produced in the presence of heat after water is removed.

Hazardous Polymerization: Will not occur

5. HEALTH HAZARDS

Signs and Symptoms of Exposure: Oral ingestion may cause gastrointestinal irritation, nausea or diarrhea. Chemical irritates eyes and skin.

Physiological Effects:

Oral: LD₅₀: rat > 5 g/kg **Skin:** LD₅₀: rabbit > 5 g/kg

Eye: Not available

Medical Conditions Aggravated by Exposure: None known

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6. ROUTES OF ENTRY AND FIRST AID

Inhalation: Remove to fresh air.

Eyes: Immediately flush with water for at least 15 minutes and seek medical attention.

Skin: Wash with mild soap and water, launder clothes.

Ingestion: If conscious, give two glasses of water and seek medical attention. Do not induce vomiting.

7. SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Transportation

Designation: No hazardous designation

Container: Polyethylene recommended

Storage: Store in tightly closed containers away from water and incompatible materials. Avoid freezing and high temperatures. Avoid eye contact and prolonged skin exposure.

Other Precautions: Do not breathe mists. Do not taste or swallow. Wash thoroughly after handling and before eating, drinking, or smoking.

Steps to Take in Case of Spill: Confine large spills by drinking, etc. Dilute spills with water and flush to sanitary sewer.

Waste Disposal: Sewer, bury or incinerate in approved site in accordance with federal, state, and local regulations.

8. PERSONAL PROTECTION

Ventilation: Normal ventilation usually adequate.

Respiratory Protection: None normally required.

Skin Protection: Rubber gloves and safety apron recommended.

Eye Protection: Face shield or safety goggles recommended.

9. NOTES

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