

ALDEN LEEDS, INC.
55 JACOBUS AVE.
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PRODUCT CODE # 2719
PRODUCT NAME: ARCTIC 60
ANTIFREEZE

MATERIAL
SAFETY DATA
SHEET
10/20/04

SECTION I - IDENTIFICATION

CHEMICAL NAME & SYNONYMS: Calcium Chloride, Aqueous Solution
CHEMICAL FORMULA: 35% CaCl₂ Solution
TRADE NAME: Arctic 60 Antifreeze
DESCRIPTION: clear pink liquid with slight odor
CAS NO: 10043-52-4

SECTION II - PHYSICAL DATA

Boiling Point: 114 C
Specific Gravity (H₂O=1): 1.34
Vapor Pressure: N/A
% Volatile by Volume: N/A
Solubility in water: Complete

Melting Point: N/A
Freezing Point: N/A
Vapor Density: N/A: water vapor only
Evaporation Rate: N/A
pH: Neutral or slightly alkaline

SECTION III - HAZARDOUS INGREDIENTS

MATERIAL	CAS NO	% BY WEIGHT	HAZARD DATA
Calcium Chloride	10043-52-1	< 50%	None

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point: N/A
Flammable Limits in Air % By Volume: N/A
Extinguishing Media: N/A
Special Fire Fighting Procedures: None
Unusual Fire and Explosion Hazards: None

Autoignition Temp: N/A

SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:
Inhalation: Mist inhalation may irritate nose, throat, lungs. May cause nose bleeds.
Skin: May cause skin irritation. Under conditions of prolonged contact or when moisture is present, superficial burns may result. Contact with abraded skin or cuts can cause severe necrosis.
Eye: May irritate or burn.
Ingestion: Low in toxicity. LD50(rat) 1.4 g/kg. May irritate gastrointestinal tract, cause nausea and vomiting.

SECTION VI - EMERGENCY AND FIRST AID PROCEDURE

INHALATION: Remove patient from area to fresh air. Get medical attention for irritation, ingestion, or discomfort.
SKIN: Wash with plenty of soap and water.
EYE: Flush promptly plenty of water for at least 15 minutes. Get medical attention.
INGESTION: If conscious, immediately give 2 to 4 glasses of water, and induce vomiting by touching finger to back of throat.

SECTION VII - TOXICOLOGY

Oral LD50 (rat): 1.4 g/kg
***Note:** Low in toxicity, but more toxic than sodium chloride.

CHEMICAL NAME:
Calcium Chloride Aqueous Solution

TRADE NAME:
Arctic 60 Antifreeze

SECTION VIII - REACTIVITY DATA

Stability: Stable

Conditions to Avoid: N/A

Incompatibility (materials to avoid): Reacts violently with boron trifluoride or a mixture of boron trioxide and calcium oxide. Water reactive materials, such as sodium cause an exothermic reaction.

Methyl Vinyl Ether: starts runaway polymerization reaction. Zinc (as in galvanized iron): yields hydrogen gas with solutions, which may explode under these conditions.

Hazardous Decomposition: Fumes of chlorides are given off at temperatures above 1000 C

Hazardous Polymerization: Will not occur.

SECTION IX - SPILL, LEAKAGE & DISPOSAL PROCEDURES

Steps to take if material leaks or spills: Dilute small spills cautiously with plenty of water. Mop into metal drum and cove. (Many metals are slowly corroded by these solutions) Cautiously spray residue with plenty of water. Large spills, dike up with any available absorbent (commercial, sand, etc.) Pump into same containers and treat as above.

Waste disposal method: Comply with all Federal, State and Local regulations. Dilute with water. Flush to sewer with plenty of water if permitted by applicable disposal regulations. Waste may have to be disposed of by an approved contractor.

SECTION X - SPECIAL PROTECTION DATA

Ventilation: Local Exhaust: In packaging and unloading areas, over open processing equipment, and any other places where misty condition prevails. Natural Ventilation: Adequate for other areas.

Respiratory Protection: For misty condition, wear a NIOSH-approved mist respirator.

Protective Gloves: Impervious gloves when using solutions.

Eye Protection: For misty conditions or when handling solution where there is reasonable probability of eye contact, wear chemical safety goggles and hat. Under these conditions, do not wear contact lenses.

Other Equipment: As a minimum wear long-sleeve shirt and trousers, boots and gloves for routine product use. Eye wash stations are recommended.

SECTION XI - SPECIAL PRECAUTIONS DATA

Handling and Storage: Avoid contact with eyes, skin or clothing. Avoid breathing mist. Use good personal hygiene and housekeeping. Keep container closed. Protect from physical damage. Do not store in metals which this solution corrodes.

Labeling: Signal Word -- WARNING

Other: Wear all recommended protective equipment when handling this product.

SECTION XII - TRANSPORTATION INFORMATION

This product is not a hazardous material and is not regulated by the D.O.T. For all transportation accidents, call **CHEMTREC** at 800-424-9300.

The information herein is given in good faith but no warranty, expressed or implied, is made.

ALDEN LEEDS, INC.
55 JACOBUS AVE. SO. KEARNY, NJ 07032
24 HOUR EMERGENCY PHONE: CHEMTREC 800-424-9300