



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No.: CC0064 CC0065
Effective Date: January 1, 2007

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Calcium Chloride, Dihydrate
Chemical Synonyms	Calcium Chloride, Hydrated
Formula	CaCl ₂ •2H ₂ O
Unit Size	up to 2.5 Kg.
C.A.S. No.	10035-04-8

 NFPA HAZARD RATING MINIMAL SLIGHT MODERATE SERIOUS SEVERE 0 1 2 3 4	CHEMTREC 800-424-9300 Day 585-226-6177	<table border="1"> <tr> <td>Health</td> <td>1</td> </tr> <tr> <td>Fire</td> <td>0</td> </tr> <tr> <td>Reactivity</td> <td>0</td> </tr> </table>	Health	1	Fire	0	Reactivity	0
	Health	1						
Fire	0							
Reactivity	0							
		HMIS*						

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Calcium chloride, anhydrous: (CAS No. 10043-52-4)	77-80%	None established.
Sodium chloride: (CAS No. 7647-14-5)	1-2%	None established.
Potassium chloride: (CAS No. 7447-40-7)	2-3%	None established.
Water: (CAS No. 7732-18-5)	15-20%	None established.
CAUTION! HARMFUL IF SWALLOWED. CAUSES IRRITATION TO SKIN, EYES, AND MUCOUS MEMBRANES.		

SECTION III PHYSICAL DATA

Melting Point (°F)	174 - 176°C (345 - 348°F)	Specific Gravity (H ₂ O = 1)	0.835 - 1.85
Boiling Point (°F)	175°C (347°F)	Percent Volatile by Volume (%)	N/A
Vapor Pressure (mm Hg)	N/A	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Soluble.		
Appearance & Odor	White to off-white powder, flakes; no odor. Hygroscopic.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Extinguisher Media	Use any media suitable for extinguishing supporting fire.				

SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved, self-contained breathing apparatus and protective clothing.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products of Calcium Oxide and Hydrochloric Acid and/or Chlorine gas.

SECTION V HEALTH HAZARD DATA CC0064

Threshold Limited Value None established by ACGIH 2001. Toxicity: Orl-rat: 1400 mg/kg.

Effects of Overexposure

May cause irritation and/or burns to the skin, eyes and mucous membranes. Dust may cause irritation to upper respiratory tract. Ingestion may cause gastrointestinal irritation or ulceration. Target organs: None known.

Emergency and First Aid Procedures

INGESTION: Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person. **EYES:** Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention. **SKIN:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. **INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Excessive temperature, high humidity and water.
	Stable	X		

Incompatibility (Materials to Avoid) Sulfuric acids, corrosive to some metals such as brass, mild steel, aluminum, ferrous metals. Contact with water generates heat.

Hazardous Decomposition Products Does not decompose.

Hazardous Polymerization	Conditions to Avoid
May Occur	Will Not Occur
	X
	Not applicable.

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled Sweep up and place in a suitable container for reuse or disposal. Wash spill area with soap and water.

Waste Disposal Method Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.

Dissolve in water and flush to sewer with copious amounts of water.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type) None should be needed in normal laboratory handling. If dusty conditions prevail, work in a ventilation hood or wear a NIOSH/MSHA-approved dust mask.

Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves Rubber. **Eye Protection** Chemical safety glasses.

Other Protective Equipment Safety goggles, smock, apron, eye wash station, proper gloves, ventilation hood.

SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing Store in a cool, dry place. Wash thoroughly after handling. Avoid contact with eyes and prolonged skin contact.

Other Precautions Read label on container before using. Do not wear contact lenses when working with chemicals. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

This material is very hygroscopic. Always use cool water (temperature less than 80°F (27°C) when dissolving Calcium Chloride. Remove and wash contaminated clothing. Leather clothing and shoes will be damaged by calcium chloride.

Revision No. 7	Date 01/01/07	Approved James A. Bertsch	Chemical Safety Coordinator JAB
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D.O.T. NON-REGULATED.

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20