



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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MSDS No. CC 64  
Effective Date February 1, 1999

## SECTION V HEALTH HAZARD DATA

CC 64

### Threshold Limited Value

None established.

### Effects of Overexposure

Generally considered non-toxic. May cause some irritation to the skin, eyes, and mucous membranes. Dust may cause irritation to upper respiratory tract.

### Emergency and First Aid Procedures

**INHALATION:** Remove to fresh air. If illness or discomfort develops, get medical attention. **SKIN:** Flush with water, then wash with soap and water. **EYES:** Immediately flush with plenty of water for 15 minutes, lifting lower and upper eyelids occasionally. Get prompt medical attention. **INGESTION:** If swallowed, if conscious, give one or two glasses of water, induce vomiting and call a physician. Never give anything by mouth to an unconscious person.

## SECTION VI REACTIVITY DATA

Stability	Unstable	Conditions to Avoid	Excessive temperature and heat. High humidity and water.
	Stable	X	

**Incompatibility (Materials to Avoid)** Strong oxidizers, BrF<sub>3</sub>, (B<sub>2</sub>O<sub>3</sub>+CaO).

**Hazardous Decomposition Products** Thermal decomposition or burning may produce Calcium Oxide and Hydrochloric Acid.

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

## 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 proper 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 glasses, 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 eye and prolonged skin contact.

**Other Precautions** Read label on container before using. Do not wear contact lenses when working with chemicals.

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.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 5	Date	2/1/99	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. \* Hazardous Materials Industrial Standards. Printed on recycled paper.

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	CALCIUM CHLORIDE, DIHYDRATE	 CHEMTREC 800-424-9300 Day 716-226-6177  NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4	<b>Health</b>	1
<b>Chemical Synonyms</b>	Calcium Chloride, Hydrated		<b>Fire</b>	0
<b>Formula</b>	CaCl <sub>2</sub> •2H <sub>2</sub> O		<b>Reactivity</b>	0
<b>Unit Size</b>	up to 2.5 Kg.		<b>HMIS *</b>	
<b>C.A.S. No.</b>	10035-04-8			

## 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 <sub>2</sub> 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)	Not applicable.
Vapor Density (Air=1)	N/A		
Solubility in Water	Soluble.		
Appearance & Odor	White to off-white powder, flakes; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Non-combustible (NA).	<b>Flammable Limits in Air % by Volume</b>	NA	Lower	Upper
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<b>Extinguisher Media</b>	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.

D.O.T. NON-REGULATED.

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