



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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(716) 226-6177

MSDS No. CC 110  
Effective Date July 7, 1998

## SECTION V HEALTH HAZARD DATA

CC 110

### Threshold Limited Value

None established. (ACGIH 1992-93).

### Effects of Overexposure

Data lacking for this compound. General toxicity: Large amounts taken by mouth may have serious or even fatal effects. The symptoms are dizziness, abdominal cramps, vomiting, bloody diarrhea, weakness, convulsions, and collapse. Small, repeated doses may lead to weakness, general depression, headache, and mental impairment.

### Emergency and First Aid Procedures

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

## SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Keep away from combustible materials.
	Stable	X		

Incompatibility (Materials to Avoid)	Combustible materials and strong reducing agents.
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Hazardous Decomposition Products	Thermal decomposition or burning may produce nitrous oxides.
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Hazardous Polymerization		Conditions to Avoid	Not applicable.
May Occur	Will Not Occur		
	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.
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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.
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Dispose of in accordance with federal, state and local regulations.

## 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)	Not required.	Other	No.
Protective Gloves	Rubber.		Eye Protection	Chemical safety glasses.
Other Protective Equipment	Goggles, smock, apron, safety glasses, eye wash station, proper gloves, and fire extinguisher.			

## SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Store in a cool, dry place away from combustible materials. Wash thoroughly after handling.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Use with adequate ventilation. Remove and wash contaminated clothing.

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

Revision	No. 6	Date	7/7/98	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

Product	CALCIUM NITRATE
Chemical Synonyms	Calcium Nitrate
Formula	Ca(NO <sub>3</sub> ) <sub>2</sub> •4H <sub>2</sub> O
Unit Size	up to 2.5 Kg.
C.A.S. No.	13477-34-4

0  
1  
3  
oxy

CHEMTREC  
800-424-9300  
Day 716-226-6177

NFPA  
HAZARD RATING  
LEAST SLIGHT MODERATE  
0 1 2

Health 1

Fire 0

Reactivity 3

HMIS \*  
HIGH EXTREME  
3 4

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
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Calcium Nitrate	100%	None established.
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**DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL**

**MAY CAUSE FIRE. AVOID CONTACT WITH EYES AND SKIN.**

## SECTION III PHYSICAL DATA

Melting Point (°F)	45°C (113°F)	Specific Gravity (H <sub>2</sub> O = 1)	2.36
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Negligible as solid.
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (≈1)	Not applicable.
Vapor Density (Air=1)	8.17		
Solubility in Water	112 grams in 100 mL. of water.		
Appearance & Odor	Colorless crystals, granular, prills, deliquescent; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Not applicable.	Flammable Limits in Air % by Volume	NA	Lower	Upper
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Extinguisher Media	Water; dry chemical (ABC); or carbon dioxide (CO <sub>2</sub> ).				

### SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved, self-contained breathing apparatus. Use flooding amounts of water in early stages of fire.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 140)

### UNUSUAL FIRE AND EXPLOSION HAZARDS

Strong oxidizer; In contact with easily oxidizable substances it may react rapidly enough to cause ignition, violent combustion or explosion. Increases the flammability of any combustible substance.

D.O.T. CALCIUM NITRATE, 5.1, UN 1454, PG III

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