



**ALDON CORPORATION**

# MATERIAL SAFETY DATA SHEET

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(716) 226-6177

MSDS No. CC 117  
Effective Date February 1, 1999

## SECTION V HEALTH HAZARD DATA

CC 117

**Threshold Limited Value** None established (ACGIH 1992-93). Oral rat LD<sub>50</sub>: 3900 mg/kg.  
Irritation eye rabbit 500 mg/24 H severe.

**Effects of Overexposure** Due to the low concentration of Calcium Nitrate in this water solution the hazard resulting in handling is very low. Generally considered non-toxic. May cause some irritation to the skin, eyes and mucous membranes.

**Emergency and First Aid Procedures**

**INGESTION:** If swallowed, if conscious, give one or two glasses of water to drink, induce vomiting and call a physician. Never give anything by mouth to an unconscious person. **SKIN:** Flush with water, then wash with mild soap and water. **EYES:** Flush thoroughly with water, lifting upper and lower eyelids occasionally. If irritation develops or persists, get medical attention. **INHALATION AS MIST:** Remove to fresh air.

## SECTION VI REACTIVITY DATA

**Stability** **Unstable** **Conditions to Avoid** Excessive temperature to cause evaporation.

**Incompatibility (Materials to Avoid)** Strong reducing agents.

**Hazardous Decomposition Products** Thermal decomposition produces calcium oxide, and nitrogen oxides (NO<sub>x</sub>).

**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** Absorb with an inert dry material and place in an appropriate container for proper disposal. Wash the spill area thoroughly 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.

Flush down drain with plenty of water.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** None needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator.

<b>Ventilation</b>	Local Exhaust	Not required.	Special	No.
	Mechanical (General)	Not required.	Other	No.

<b>Protective Gloves</b>	Rubber.	<b>Eye Protection</b>	Chemical safety glasses.
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<b>Other Protective Equipment</b>	Lab coat, apron, eye wash station, proper gloves.
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## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool place. Wash thoroughly after handling.  
Keep container tightly closed when not in use.

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

Remove and wash contaminated clothing.

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

Revision No. 3	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 NITRATE 0.5 MOLAR AQ. SOL'N
<b>Chemical Synonyms</b>	Calcium Nitrate, Water Solution
<b>Formula</b>	Mixture.
<b>Unit Size</b>	up to 4 Lt.
<b>C.A.S. No.</b>	Mixture.

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

NFPA  
HAZARD RATING  
LEAST SLIGHT MODERATE HIGH EXTREME  
0 1 2 3 4

Health	1
Fire	0
Reactivity	1

HMIS \*  
HIGH EXTREME  
3 4

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Calcium Nitrate: (CAS No. 10124-37-5)	8.21%	None established.
Water: (CAS No. 7732-18-5)	91.79%	None established.

**CAUTION! HARMFUL IF SWALLOWED. AVOID**

**CONTACT WITH EYES, SKIN AND CLOTHING.**

## SECTION III PHYSICAL DATA

Melting Point (°F)	Freezes approx. 0°C (32°F)	Specific Gravity (H <sub>2</sub> O = 1)	Approx. 1.0
Boiling Point (°F)	Approx. 100°C (212°F)	Percent Volatile by Volume (%)	91.79%
Vapor Pressure (mm Hg)	14 (water).	Evaporation Rate (Water = 1)	Slightly less than 1.
Vapor Density (Air=1)	0.7 (water).		
Solubility in Water	Complete.		
Appearance & Odor	Clear, water white, water like liquid; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

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

### SPECIAL FIREFIGHTING PROCEDURES

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

### UNUSUAL FIRE AND EXPLOSION HAZARDS

In fire conditions, water may evaporate from this solution, which may cause hazardous decomposition products to be produced as dust or fume.

D.O.T. NON-REGULATED.

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