



**ALDON CORPORATION**

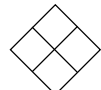
# MATERIAL SAFETY DATA SHEET

221 Rochester Street  
Avon, New York 14414-9409  
(585) 226-6177

MSDS No.: CC0116  
Effective Date: January 1, 2007

## SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

<b>Product</b>	Calcium Nitrate, 0.1 Molar Solution
<b>Chemical Synonyms</b>	Calcium Nitrate, Water Solution
<b>Formula</b>	Mixture.
<b>Unit Size</b>	up to 3.785 Lt.
<b>C.A.S. No.</b>	Mixture.



**CHEMTREC**  
800-424-9300  
Day 585-226-6177

Health	1
Fire	0
Reactivity	1

**NFPA**

HAZARD RATING				
MINIMAL	SLIGHT	MODERATE	SERIOUS	SEVERE
0	1	2	3	4

**HMIS\***

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Calcium nitrate: (CAS No. 10124-37-5)	1.64%	None established.
Water: (CAS No. 7732-18-5)	98.36%	None established.
<b>CAUTION!</b>		

**HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION.**

## 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 (%)	98.36%
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
<b>Extinguisher Media</b>	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

## SECTION V HEALTH HAZARD DATA CC0116

<b>Threshold Limited Value</b>	None established (ACGIH 2001). Oral rat LD <sub>50</sub> : 3900 mg/kg. Irritation eye rabbit 500 mg/24 H severe.
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<b>Effects of Overexposure</b>	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. Target organs: Blood.
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<b>Emergency and First Aid Procedures</b>	<b>INGESTION:</b> 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. <b>EYES:</b> 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. <b>SKIN:</b> Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. <b>INHALATION:</b> Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
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## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Excessive temperature to cause evaporation.
	<b>Stable</b>	X		

<b>Incompatibility (Materials to Avoid)</b>	Strong reducing agents.
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<b>Hazardous Decomposition Products</b>	Thermal decomposition produces calcium oxide, and nitrogen oxides.
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<b>Hazardous Polymerization</b>	<b>Conditions to Avoid</b>
<b>May Occur</b>	<b>Will Not Occur</b>
	X
Not applicable.	

## SECTION VII SPILL OR LEAK PROCEDURES

<b>Steps to be taken in case material is released or spilled</b>	Absorb with an inert dry material and place in an appropriate container for proper disposal. Wash spill area thoroughly with soap and water.
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<b>Waste Disposal Method</b>	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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Flush down drain with plenty of water.

## SECTION VIII SPECIAL PROTECTION INFORMATION

<b>Respiration Protection (Specify Type)</b>	None needed in normal laboratory handling. If misty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved respirator.
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<b>Ventilation</b>	<b>Local Exhaust</b>	Not required.	<b>Special</b>	No.
	<b>Mechanical (General)</b>	Not required.	<b>Other</b>	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

<b>Precautions to be Taken in Handling &amp; Storing</b>	Store in a cool place. Wash thoroughly after handling.
Keep container tightly closed when not in use.	

<b>Other Precautions</b>	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.
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Avoid contact with skin and eyes. Remove and wash contaminated clothing.

<b>Revision No.</b> 7	<b>Date</b> 01/01/07	<b>Approved</b> James A. Bertsch	<b>Chemical Safety Coordinator</b> JAB
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