



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

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

MSDS No.: CC0110 CC0115
Effective Date: January 1, 2007

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Calcium Nitrate
Chemical Synonyms	Nitric Acid, Calcium (II) Salt
Formula	Ca(NO ₃) ₂ •4H ₂ O
Unit Size	up to 2.5 Kg.
C.A.S. No.	13477-34-4



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

Health	1
Fire	0
Reactivity	3

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	100%	None established.

DANGER! STRONG OXIDIZER. CONTACT WITH OTHER MATERIAL MAY CAUSE FIRE.

AVOID CONTACT WITH EYES, SKIN AND CLOTHING.

SECTION III PHYSICAL DATA

Melting Point (°F)	45°C (113°F)	Specific Gravity (H ₂ O = 1)	2.36
Boiling Point (°F)	Decomposes.	Percent Volatile by Volume (%)	Negligible as solid.
Vapor Pressure (mm Hg)	Negligible as solid.	Evaporation Rate (Water = 1)	Not applicable.
Vapor Density (Air=1)	8.17		
Solubility in Water	121 grams in 100 grams 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	N/A	Lower	Upper
Extinguisher Media	Water, dry chemical or carbon dioxide.				

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.

(2004 EMERGENCY RESPONSE GUIDEBOOK, RSPA P 5800.7, GUIDE PAGE NO. 140)

UNUSUAL FIRE AND EXPLOSION HAZARDS

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

SECTION V HEALTH HAZARD DATA CC0110

Threshold Limited Value	None established (ACGIH 2001). Oral rat LD ₅₀ : 3900 mg/kg. Irritation eye rabbit 500 mg/24 H severe.
--------------------------------	---

Effects of Overexposure	Inhalation may cause irritation of the respiratory tract, causing sore throat, coughing and possibly labored breathing. Ingestion can produce abdominal pain, stricture, nausea, vomiting and diarrhea. Faintness, blood disorders and bluish skin are also symptoms of acute ingestion. Contact with skin and eyes may cause redness, pain and burns. Target organs: Blood.
--------------------------------	--

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	Keep away from combustible materials.
	Stable	X	

Incompatibility (Materials to Avoid)	Ammonia, hydrazine and other reducing agents.
---	---

Hazardous Decomposition Products	Thermal decomposition or burning may produce nitrogen oxides.
---	---

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 proper disposal.
--	---

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.
------------------------------	--

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.
--	---

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.
--------------------------	--

Use with adequate ventilation. Remove and wash contaminated clothing.

Revision No.	10	Date	01/01/07	Approved	James A. Bertsch	Chemical Safety Coordinator	JAB
--------------	----	------	----------	----------	------------------	-----------------------------	-----

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.

D.O.T. Calcium nitrate, 5.1, UN1454, PG III, Ltd Qty ≤ 5 Kg.

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