

24 HOUR EMERGENCY ASSISTANCE

SECTION I	NAME
Product	CALCIUM NITRATE
Chemical Synonyms	Calcium Nitrate
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 716-228-6177	Health 1 Fire 0 Reactivity 3
	NEPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4	HIMIS HIGH EXTREME 3 4

SECTION II	INGREDIENTS OF MIXTURES	TLV Units
Principal Component(s)	%	
Calcium Nitrate	100%	None established.

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)	2.36
Boiling Point (°F)	Decomposes.	Negligible as solid.
Vapor Pressure (mm Hg)	Negligible as solid.	-1)
Vapor Density (Air=1)	8.17	Not applicable.
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
Extinguisher	Water, dry chemical (ABC), or carbon dioxide (CO ₂).			

SPECIAL PREFIGHTING PROCEDURES

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

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.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P. 5900.7, GUIDE PAGE NO. 140)

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

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

SECTION V HEALTH HAZARD DATA

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 Stable	X
Incompatibility (Materials to Avoid)	Combustible materials and strong reducing agents.	
Hazardous Decomposition Products	Thermal decomposition or burning may produce nitrous oxides.	
Hazardous Polymerization	May Occur Will Not Occur	X
Conditions to Avoid	Not applicable.	

SECTION VII SPILL OR LEAK PROCEDURES

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.
Protective Gloves	Mechanical (General)	Not required.	Other	No.
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. 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 Raszela Chemical Safety Coordinator MR

This information contained herein is furnished without warranty of any kind. Employees 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 Industry Standards. Printed on recycled paper.