

**Material Safety Data Sheet**

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements

**U.S. Department of Labor**

Occupational Safety and Health Administration  
 (Non-Mandatory Form)  
 Form Approved  
 OMB No. 1218-0072

**IDENTITY** (as Used on Label and List)  
**Calcium Nitrate**

**Note:** Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

**Section I**

Manufacturers /Distributor Address Number Street City State and Zip Code	Emergency Telephone Number
Columbus Chemical Industries	CHEMTREC 1-800-424-9300
P.O. Box 8, N4335 Temkin Rd.	Telephone Number for Information
Columbus, WI 53925-0008	920-623-2140
	Date Prepared
	08-14-2006
	Signature of Preparer (optional)

**Section II - Hazardous Ingredients/Identity Information**

Hazardous Components (Specific Chemical Identity, Common Name(s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Calcium Nitrate*	13477-34-4	Not established	Not established	Not established	

\*Subject to SARA Section 313 Reporting Requirements.

**Section III - Physical/Chemical Characteristics**

Boiling Point	132°C (270°F)	Specific Gravity (H <sub>2</sub> O = 1)	Not Available
Vapor Pressure (mm Hg)	Not Available	Melting Point	45 °C (113 °F)
Vapor Density (AIR = 1)	Not Available	Evaporation Rate (Butyl Acetate = 1)	Not Available

Solubility in Water

Complete

Appearance and Odor

Colorless transparent crystals

**Section IV Fire and Explosion Hazard Data**

Flash Point (Method Used)	Flammable Limits	LEL	UEL
non-flammable		N/A	N/A
Extinguishing Media			

WATER only, no dry chemical, carbon dioxide, or halon

Special Fire Fighting Procedures

Self -contained air supply to protect from oxides of nitrogen. Move cotainer from fire area if possible. Cool water to containers exposed to flames well after fire is out.For massive fire use unmanned hoses.Keep runoff from H<sub>2</sub>O supply

Unusual Fire and Explosion Hazards

Noxious fumes (oxides of nitrogen) may form. Oxidizers decompose when heated to yield oxygen and other gases which accelerate combustion.Contact with organics/other combustibles may result in explosion/ violent combustion

**Section V Reactivity Data**

Stability	Unstable		Conditions to Avoid	Avoid contact with organics,
	Stable	X		

**Incompatibility Materials to Avoid**

Many Organics and Combustible Materials, reducing agents.

**Hazardous Decomposition or Byproducts**

Oxides of Nitrogen, calcium oxides

**Hazardous Polymerization****Conditions to Avoid**

	May Occur		No known conditions
	Will Not Occur	X	

**Section VI Health Hazard Data****Routes of Entry****Inhalation ?****Skin ?****Ingestion ?**

Multiple	Yes	Yes	Yes
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**Health Hazards (Acute and Chronic)**

Skin and eye irritant. Inhalation causes irritation to the upper respiratory tract may cause difficulty in breathing , shortness of breath. Ingestion can cause digestive tract irritation and pain.

**Carcinogenicity****NTP****IARC Monographs****OSHA REGULATED?**

	Not Listed	Not Listed	Not Listed
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**Signs and Symptoms of Exposure.**

Large Exposure: Dizziness, Abdominal Cramps, Vomiting, Bloody Diarrhea, Weakness, difficulty breathing, ringing in the ears. Small Exposure: Weakness, General Depression, Headache, Menal impairment, sneezing, coughing.

**Medical Conditions Generally Aggravated by Exposure**

n/a

**Emergency and First Aid Procedures**

**INGESTION:** If swallowed, call a physician immediately, DO NOT INDUCE VOMITING. Do not leave victim unattended. **EYES:** In case of contact, immediately flush with large amounts of water for at least 15 minutes. Call physician. **INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call physician. **SKIN:** Immediately wash skin with soap and large amounts of water.

**Section VII Precautions for Safe Handling and Use****Steps to be Taken in Case Material is Released or Spilled**

Keep combustibles from spilled material. Do not touch material. For small spills: Take up with sand, earth, or other absorbant material and place into container for disposal. For large spills: dike area far ahead of spill for later disposal. Isolate area and keep unnecessary people away.

**Waste Disposal Method**

Observe all Federal, State, and Local regulations when disposing of this material. Disposal must comply with standards applicable to generators of hazardous waste.

**Precautions to be Taken in Handling and Storing**

Do NOT get on skin, clothing, or in eyes. Avoid breathing dusts. Keep out of reach of children. store in a cool, dry place. Avoid contact with flammable materials or oxidizable materials.

**Other Precautions**

Avoid contact with combustible materials. Avoid storing with Oxidizable materials.

**Section VII Control Measures****Respiratory Protection (Specify Type)**

Normally, none are needed, use dust mask if conditions warrant.

**Ventilation**

Local Exhaust Recommended

Special Eye wash station

Mechanical (General) N/A

Other Safety Shower

Protective Gloves Appropriate chemical-resistant gloves.

Eye Protection Safety glasses

Other Protective Clothing or Equipment Apron or lab coat.

Work /Hygienic Practices Do NOT get on skin, clothing, or in eyes. Avoid breathing, Store in cool, dry place . Avoid contact with flammable materials. Avoid storing with oxidizable materials. Keep out of reach of children.