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In Case Of Emergency Call  
(U.S.) (800) 424-9300  
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## Calcium Nitrate Safety Data Sheet

### 1. Product and Company

Product name: Calcium Nitrate Tetrahydrate

Synonym: Calcium Dinitrate Tetrahydrate, Calcium Salt of Nitric Acid

CAS-No.: 13477-34-4

Company: Hummel Croton Inc.  
10 Harmich Rd.  
South Plainfield, NJ 07080

Telephone: 908-754-1800  
Fax: 908-754-1815

HMIS Rating	
Health	2
Flammability	0
Reactivity	0
Personal Protection	E

Emergency telephone number

Emergency Phone #: Chemtrec US: 1-800-424-9300  
ChemTel International: +1-813-248-0585

### 2. Hazards

GHS Classification Acute toxicity, Oral (Category 4), H302  
Serious eye damage (Category 1), H318

#### GHS Label elements

Pictogram(s)



Signal word **DANGER**

Hazard statement(s)

H302 Harmful if swallowed.

H318 Causes serious eye damage.

Precautionary statement(s)

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P280 Wear eye protection/ face protection.

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

P501 Dispose of contents/ container to an approved waste disposal plant.

**Hazards not otherwise classified (HNOC) or not covered by GHS**

None

**3. Composition/Ingredients**

**Substance**

Formula:  $\text{Ca}(\text{NO}_3)_2 \cdot 4 \text{H}_2\text{O}$

Molecular weight: 204.14 g/mol

CAS-No.: 13477-34-4

Material	CAS	%	OSHA	ACGIH
Calcium Nitrate	13477-34-4	100%	Not Established	Not Established

**4. First Aid**

**First Aid For Eye:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

**First Aid For Skin:** In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

**First Aid For Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**First Aid For Ingestion:** If swallowed, call a physician immediately.

**5. Fire Data**

Flammability: Non-Flammable

Flash Point: Not Applicable

Auto Ignition: Not Applicable

Flammable Limits: Not Applicable

Extinguishing Media: Water spray

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Oxidizer.

Fire/Explosion Hazards: Contact with other material may cause fire. Emits toxic fumes under fire conditions.

## 6. Accidental Release

Spill Or Leak Procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water.

## 7. Handling And Storage

Storage Temperatures: Store at ambient temperature. Material will start to melt above 35°C.  
Shelf Life: Unlimited in tightly sealed container  
Special Sensitivity: None  
Handling/Storage Precautions: Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials. Reseal containers immediately after use. Store away from food or beverages.

## 8. Exposure Controls/Personal Protection

Eye Protection: Safety glasses or goggles.  
Skin Protection: PVC gloves with impervious boots, apron or coveralls. Wash hands and face before eating, drinking or using tobacco.  
Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.  
Ventilation: Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.  
Additional Measures: Emergency showers and eye wash stations should be available. Educate and train employees in the safe handling of hazardous chemicals.

## 9. Physical And Chemical Properties

Physical Form: Crystals or flakes  
Color: White  
Odor: Odorless  
Molecular Weight: 204.14 g/mol  
Boiling Point: N/A  
Melting/Freezing Point: Starts at 45°C  
Solubility In Water: 1.3 g/mL @20°C  
Specific Gravity: 1.86

## 10. Stability And Reactivity

Stability: Stable  
Hazardous Polymerization: Will not occur.  
Incompatibilities: Strong reducing agents and strong acids.  
Instable Conditions: Excessive temperatures (see incompatibilities).  
Decomposition Temperature: Not established.  
Decomposition Products: Oxides of nitrogen and calcium.

## 11. Toxicological Information

RTECS Number: EW3000000

Routes Of Exposure: Eye contact. Ingestion. Inhalation. Skin contact.

Toxicity Data: LD50 Oral-Rat 3,900 mg/kg

Chronic Toxic Effects: Not known to cause any long term harmful health effects.

Acute Toxic Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness.

Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound

## 12. Ecological Information

Ecotoxicity: Not available at this time.

## 13. Disposal Considerations

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

## 14. Transportation Information

Proper Shipping Name: Calcium Nitrate

UN Number: 1454

Class: 5.1

P.G.: III

Label Code: 5.1

## 15. Regulatory Information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) Inventory List

California Proposition 65: To the best of our knowledge, this product contains no levels of listed substances which the state of California has found to cause cancer, birth defects, or other reproductive effects.

SARA 313 Title III:

Section 320 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: None

## **16. Other Information**

Prepared By: Michael Richard

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Reason For Issue: Emergency Contact Update

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