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

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>Formula:</th>
<th>Molecular weight:</th>
<th>CAS-No.:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Nitrate</td>
<td>Ca(NO₃)₂·4 H₂O</td>
<td>204.14 g/mol</td>
<td>13477-34-4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Material</th>
<th>CAS</th>
<th>%</th>
<th>OSHA</th>
<th>ACGIH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Nitrate</td>
<td>13477-34-4</td>
<td>100%</td>
<td>Not Established</td>
<td>Not Established</td>
</tr>
</tbody>
</table>
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
Date: March 20, 2018
Reason For Issue: Emergency Contact Update

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