SAFETY DATA SHEET: CALCIUM NITRATE

1. IDENTIFICATION

Product Name: CALCIUM NITRATE
Synonyms: Calcium (II) nitrate; Nitric acid calcium salt
Formula and Formula Weight: Ca(NO3)2 4H2O  236.15
Integra numbers beginning with: C094.10
Recommended Use: Commercial use
Restrictions on Use: No information available

INTEGRA Chemical Company
24 Hour Emergency Response: CHEMTREC 800-424-9300 (Outside USA 703-527-3887)
1216 6th Ave N
Kent WA  98032
Phone: 253-479-7000

2. HAZARDS IDENTIFICATION

OSHA Classification: Hazard Category: Hazard Statement:
Eye Damage/Irritation 2B Causes eye irritation.
Oxidizing Solids 3 May intensify fire; oxidizer.

Signal Word: WARNING

Precautionary Statements

Prevention:
Keep away from heat.
Keep and store away from clothing, combustible materials.
Take any precaution to avoid mixing with combustibles.
Wash thoroughly after handling.
Wear protective gloves, eye protection, face protection.

Response
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice, attention.

Disposal
Dispose of contents, container in accordance with all governmental regulations.

Hazard Not Otherwise Classified: No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Synonyms</th>
<th>CAS #</th>
<th>% Weight</th>
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<tbody>
<tr>
<td>Calcium nitrate</td>
<td>Calcium (II) nitrate; Nitric acid calcium salt</td>
<td>13477-34-4</td>
<td>100</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Inhalation: Remove person to fresh air.
Eye Contact: Flush eyes with water for at least 15 minutes. Remove contact lenses, if present and easy to do. If irritation persists, seek medical attention.
Skin Contact: Wash with soap and water. Seek medical attention if irritation develops.
Ingestion: Rinse mouth and give victim large quantities of water. Never give anything by mouth to an unconscious person. Seek immediate medical attention.

Additional notes: Symptoms and effects include eye irritation or burns.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Use extinguishing media appropriate for surrounding fire.
Special Equipment and Precautions: Use water to cool nearby containers and structures. Wear full protective equipment, including suitable respiratory protection.
Specific Hazards: Strong oxidizer. Contact with combustible or flammable materials can cause fire or explosion.
Hazardous combustion products: Oxides of nitrogen, oxides of carbon.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Remove all potential ignition sources. Prevent spread of spill. Wear suitable protective equipment. Sweep or scoop into disposal container in a manner that minimizes dust dispersion. Flush spill area with water.

7. HANDLING AND STORAGE

Storage and Handling: Store in a cool, dry, well-ventilated area dedicated to the storage of oxidizers. Keep away from incompatible
9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** Colorless transparent crystals

**Odor:** Odorless

**Odor Threshold:** Not available

**pH:** 5.5 - 7.0

**Melting/Freezing Point:** 45 °C

**Initial Boiling Point and Boiling Range:** 132 °C

**Flash Point:** Not applicable

**Evaporation Rate:** Not available

**Flammability:** Not flammable

**Flammable or Explosive Limits (% by volume in air):** Upper: Not applicable  Lower: Not applicable

**Vapor Pressure:** Not available

**Vapor Density:** Not available

**Relative Density:** 1.82  Water=1

**Solubility:** Completely soluble in water (129g/100g water @20°C)

**Partition Coefficient: n-octanol/water:** Not available

**Auto-Ignition Temperature:** Not available

**Decomposition Temperature:** Not available

**Viscosity:** Not available

10. STABILITY AND REACTIVITY

**Stability:** Stable

**Incompatibles:** Organic or other combustible materials. Strong reducing agents. Powdered metals. Ammonia.

**Decomposition Products:** Oxides of nitrogen, oxides of carbon.

11. TOXICOLOGICAL INFORMATION

**Effects of Over Exposure:**

**Inhalation:** Inhalation may irritate the nose, throat and upper respiratory tract.

**Skin Contact:** Contact may cause skin irritation.

**Eye Contact:** May irritate or burn the eyes. May cause conjunctivitis.

**Ingestion:** Harmful if swallowed. Ingestion may cause nausea, vomiting and gastrointestinal irritation.

**Chronic Effects:** No information available

**Target Organs:** No information available

**Additional Effects:** No information available

**Reproductive Effects:** No information available

**Carcinogenicity:** Calcium nitrate is listed by the IARC as Group 2A, Probable Human Carcinogen [as Nitrate or nitrite (ingested) under conditions that result in endogenous nitrosation].

**Toxicity Data:**

<table>
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<tr>
<th>Substance</th>
<th>LD50 (oral, rat)</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Calcium nitrate</td>
<td>3900 mg/kg</td>
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</table>

12. ECOLOGICAL INFORMATION
13. DISPOSAL CONSIDERATIONS

Disposal Procedures: Dispose of material and containers in accordance with all local, state and federal regulations.

14. TRANSPORTATION INFORMATION

This product is a regulated material for domestic ground transporation, per CFR Title 49.

- UN Number: UN1454
- Proper Shipping Name: Calcium nitrate
- Packing Group: III
- Hazard Class: 5.1
- Environmental hazards: No information available
- Special precautions: No information available
- Bulk transport: No information available

15. REGULATORY INFORMATION

Calcium nitrate is listed in the TSCA inventory.

16. OTHER INFORMATION

OSHA SDS #: 25358 rev 101 3/27/2015

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***** END OF SDS *****