MATERIAL SAFETY DATA SHEET

Calcium Nitrate

EMERGENCY TELEPHONE NUMBER

NEWALTA Emergency Environmental Services 800-567-7455

PRODUCT IDENTIFICATION

- Product Name: Calcium Nitrate
- Chemical Name: Calcium Nitrate Decahydrate
- Synonyms: 
- Chemical Family: Calcium Nitrate
- Molecular Formula: 
- Product Use: Manufacturer of fertilizers, Pharmaceuticals, lubricants, household cleaners

HAZARDOUS INGREDIENTS OF MATERIAL

<table>
<thead>
<tr>
<th>Hazardous Ingredients</th>
<th>%</th>
<th>ACGI TLV</th>
<th>UN No.</th>
<th>CAS No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calcium Nitrate</td>
<td>N/A</td>
<td>N/A</td>
<td>10124-37-5</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>46</td>
<td>N/A</td>
<td>N/A</td>
<td>10124-37-5</td>
</tr>
</tbody>
</table>

PHYSICAL PROPERTIES

- Physical State: Liquid
- Appearance and Odour: Clear, colourless liquid with no odour
- Odour Threshold: N/A
- Boiling Point: N/A
- Melting/Freezing Point: N/A
- Vapour Pressure: N/A
- Specific Gravity: 1.45-1.47
- Vapour Density: N/A
- Bulk Density: N/A
- Evaporation Rate: N/A
- Solubility: Complete
- % Volatile by Volume: No data
- pH: 5.0-8.0
- Coefficient of Water/Oil Distribution: N/A
- Sensitivity to Mechanical Impact: N/A
- Rate of Burning: N/A
- Explosive Power: N/A
- Sensitivity to Static Discharge: N/A

REACTIVITY DATA

- Stability: Stable
- Under Normal Conditions: Stable
- Under Fire Conditions: Under extreme heat, it will liberate nitrous oxide and oxygen.
- Hazardous Polymerization: None
- Conditions to Avoid: N/A
- Material to Avoid: Aluminium, Zinc, galvanized iron and combustible materials.
- Hazardous Decomposition of Combustion Products: Nitrous Oxide and oxygen.
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SHIPPING DESCRIPTION (Under the TDG Act)

Shipping Name: Calcium Nitrate
Shipping Class/Division: N/A
Product Identification No (PIN): N/A
Packing Group: N/A

FIRE AND EXPLOSION DATA

Flash Point (method): Not applicable, not flammable
Auto ignition Temperature: N/A
Flammability Limits in air (%): UEL: N/A LEL: N/A
Fire Extinguishing Media: N/A
Fire Fighting Procedures: N/A
Other Fire or Explosion Hazards: N/A

TOXICOLOGICAL AND HEALTH DATA

Recommended Exposure Limit: N/A
Toxicological Data (Ammonia): LD_{50} (oral, rat) = N/A ; LC_{50} (inhalation, mouse) = N/A
Carcinogenicity Data: N/A
Reproductive Effects: N/A
Mutagenicity Data: N/A
Teratogenicity Data: N/A
Synergistic Materials: N/A

EFFECTS OF EXPOSURE WHEN:

Inhaled: May cause irritation.
In contact with the skin: Low irritation potential.
In contact with the eyes: Irritant.
Ingested: Moderate to severe irritation.
Other Health Effects: Risk of Nitrate Toxicity.

FIRST AID PROCEDURES WHEN:

Inhaled: Remove to fresh air. If discomfort continues, seek medical attention.
In contact with the skin: Wash skin with mild soap and water.
In contact with the eyes: Flush with plenty of water for 15 min. (seek medical attention if necessary).
Ingested: Seek medical attention. Risk of Nitrate Toxicity.
Emergency Medical Care: N/A
PREVENTIVE MEASURES

Recommendations listed in this section indicate the type of equipment which will provide protection against overexposure to this product. Conditions of use, adequacy of engineering of other control measures, and actual exposures will dictate the need for specific protective devices at your workplace.

- **Engineering Controls:** N/A
- **Respiratory Protection:** Not required.
- **Skin Protection:** Not required (rubber or PVC gloves recommended for prolonged exposure).
- **Eye Protection:** Safety glasses or chemical splash proof goggles.
- **Other Personal Protective Equipment:** Rubber boots are recommended where splashing or spill is likely. Wear waterproof apron if splash or spill is likely.

- **Handling Procedures and Equipment:** Avoid splashing.
- **Storage Temperature (°C):** N/A
- **Storage Requirements:** Do not store in an aluminium tank.
- **Other Precautions:** N/A

ENVIRONMENTAL PROTECTION DATA

Steps to be taken in the event of a spill or leak:

- **Environmental Effects:** N/A
- **Deactivating Chemicals:** N/A
- **Waste Disposal Methods:** Large spills should be diked to contain the material to prevent contact with waterways and sewers. Absorb with absorbent materials and dispose in accordance with local regulations.

ADDITIONAL INFORMATION AND SOURCES USED

The information contained herein is offered only as a guide to the handling of this specific material and has been prepared in good faith by technically knowledgeable personnel. It is not intended to be all-inclusive and the manner and conditions of use and handling may involve other and additional considerations. No warranty of any kind is given or implied and Alpine Plant Foods Limited. will not be liable for any damages, losses, injuries or consequential damages which may result from the use or reliance on any information contained herein. This Material Safety Data Sheet is valid for three years.

**Preparation Date:**
March 12, 2002

**Revised Date:**
January 2009

**Manufacturer/Supplier:**
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