

**THATCHER COMPANY MATERIAL SAFETY DATA SHEET****PRODUCT: CALCIUM NITRATE SOLUTIONS****Page 1 of 3**MSDS Date: November 3, 2004  
Emergency Contact: 1-800-424-9300**SECTION I****PRODUCT NAME:** Calcium Nitrate Solutions**SYNONYMS:** Lime Nitrate, Lime Saltpeter**CHEMICAL NAME:** Calcium Nitrate**FORMULA** Ca(NO<sub>3</sub>)<sub>2</sub> Solution**CHEMICAL FAMILY:** Inorganic salts**MOLECULAR WEIGHT:** 236**DOT SHIPPING INFORMATION:** Not regulated**SECTION II - HAZARDOUS INGREDIENTS**

This material contains no ingredients which are known by Thatcher Company to be hazardous unless listed below.

<b>HAZARDOUS MATERIAL</b>	<b>CAS NUMBER</b>	<b>w/w %</b>	<b>EXPOSURE LIMITS IN AIR</b>
Calcium nitrate	10124-37-5	45 - 49	None determined

The specific identity of some ingredients may be withheld for confidential business purposes. However, all known potential health effects from exposure to these ingredients are being addressed.

This product is subject to SARA section 313 reporting requirements

**SECTION III - PHYSICAL DATA****BOILING POINT (F):** Loses water at 212 F**SPECIFIC GRAVITY:** 1.42 - 1.48**VAPOR PRESSURE (mm Hg):** Essentially water**% VOLATILE, BY VOLUME:** 30 - 34%**VAPOR DENSITY (air = 1):** Essentially water**EVAPORATION RATE:** Unknown**SOLUBILITY IN WATER:** Complete**pH:** 6 - 7**APPEARANCE AND ODOR:** Clear, odorless solution.**SECTION IV - FIRE AND EXPLOSION DATA****FLASH POINT:** Nonflammable**FLAMMABLE LIMITS:** Lel: N/A Uel: N/A**EXTINGUISHING MEDIA:** Use media appropriate to surrounding fire.**SPECIAL FIRE-FIGHTING PROCEDURES:**

Wear self-contained breathing apparatus. Flood containers with water to cool, and prevent rupture and spreading of material.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Fire can evaporate water, leaving crystals of calcium nitrate (an oxidizing material).



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**SECTION V - REACTIVITY DATA**

**STABILITY:** Stable

**HAZARDOUS POLYMERIZATION:**

Will not occur

**CONDITIONS OR MATERIALS TO AVOID:**

Dangerous fire or explosion risk in contact with organics or other materials. High temperature decomposition releases toxic gaseous nitrogen oxides.

**SECTION VI - HEALTH HAZARD DATA**

**Carcinogenic Listing:**

NTP: No ingredients listed in this section.

IARC MONOGRAPHS: No ingredients listed in this section.

OSHA 29 CFR 1910: No ingredients listed in this section.

**ENTRY ROUTES & EFFECTS OF OVEREXPOSURE:**

**Contact:** Can cause irritation to eyes and skin.

**Inhalation:** May cause irritation of mucous membranes, coughing or difficulty in breathing.

**Ingestion:** Ingestion of large amounts can cause symptoms of nausea, including nausea, dizziness and abdominal pain.

**STATEMENT OF PRACTICAL TREATMENT:**

**Contact:** Wash exposed area thoroughly with water. For eyes, flush with cool water for at least 15 minutes and get medical attention if irritation persists.

**Inhalation:** Remove to fresh air. Treat symptomatically.

**Ingestion:** If conscious, give several glasses of water or milk and **induce** vomiting. Call a physician at once.

**SECTION VII - SPECIAL PRECAUTIONS**

**HANDLING AND STORAGE PRECAUTIONS:**

Keep away from heat and open flame. Store away from other chemicals or organic materials. Avoid contact with eyes and skin. Do not take internally.

**STEPS TO BE TAKEN IF MATERIAL SPILLS OR LEAKS:**

Wear safety equipment. For small spills, flush to sewer with lots of water (if permitted). For larger spills, recover into drums and flush residue to sewer with large amounts of water (if permitted).

**WASTE DISPOSAL METHOD:**

Waste product is not an EPA hazardous waste. Dispose of at approved landfill or waste disposal facility. Comply with all local, state and federal regulations.

**SECTION VIII - SPECIAL PROTECTION INFORMATION**



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**RESPIRATORY PROTECTION:**

None normally required.

**VENTILATION:**

Maintain adequate ventilation.

**EYE PROTECTION:**

Chemical goggles.

**SKIN PROTECTION:**

Rubber gloves, appropriate impervious garment to minimize contact.

**OTHER PROTECTIVE EQUIPMENT:**

As needed to prevent contact with eyes and skin.

**ACGIH** = American Conference of Governmental Industrial Hygienists

**CL** = Ceiling Level

**IARC** = International Agency for Research on Cancer: Monographs

**OSHA** = Occupational Safety and Health Administration

**N/A** = Not Applicable

**NTP** = National Toxicology Program: Annual Report on Carcinogens

**PEL** = Permissible Exposure Level (OSHA)

**TLV** = Threshold Limit Value (ACGIH)

**TWA** = Time Weighted Average over 8 Hours

**STEL** = Short Term Exposure Limit (ACGIH)

**ND** = Not Determined

This information is, to the best of our knowledge, accurate but may not be complete. THATCHER COMPANY furnishes this information in good faith, but without warranty, representation or guarantee of its accuracy, completeness, or reliability.