



THATCHER COMPANY MATERIAL SAFETY DATA SHEET  
PRODUCT: CALCIUM HYPOCHLORITE, GRANULAR  
Page 1 of 1

MSDS Date: August 18, 1998  
Emergency Contact: 1-800-424-9300

**SECTION I**

**PRODUCT NAME:** Calcium Hypochlorite, Granular  
**SYNONYMS:** Chlorinated Lime  
**FORMULA:** Ca(OCl)<sub>2</sub>  
**CHEMICAL NAME:** Calcium Hypochlorite  
**CHEMICAL FAMILY:** Hypochlorites

**DOT SHIPPING INFORMATION:** Calcium hypochlorite, Hydrated,  
5.1, UN 2880 PG II

**SECTION II - HAZARDOUS INGREDIENTS**

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

HAZARDOUS MATERIAL	CAS NUMBER	w/w %	EXPOSURE LIMITS IN AIR
Calcium hypochlorite	7778-54-3	-----	None established Nuisance dust limit is 15 mg/m <sup>3</sup> (OSHA)

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.

**SECTION III - PHYSICAL DATA**

**BOILING POINT (F):** N/A

**SPECIFIC GRAVITY:** 0.97

**VAPOR PRESSURE (mm Hg):** N/A

**% VOLATILE, BY VOLUME:** N/A

**VAPOR DENSITY (air = 1):** N/A

**EVAPORATION RATE:** N/A

**SOLUBILITY IN WATER:** 217 gm/l

**APPEARANCE AND ODOR:** White, granular solid with mild chlorine odor.

**SECTION IV - FIRE AND EXPLOSION DATA**

**FLASH POINT:**  
Nonflammable

**FLAMMABLE LIMITS:** Lel: N/A Uel: N/A

**EXTINGUISHING MEDIA:**  
Water only.

**SPECIAL FIRE-FIGHTING PROCEDURES:**  
Firefighters should wear full protective gear. Elevated temperatures may cause decomposition to toxic fumes.



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**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Dangerous fire risk in contact with organic materials or reducing agents.

**SECTION V - REACTIVITY DATA**

**STABILITY:**

Stable

**HAZARDOUS POLYMERIZATION:**

Will not occur

**CONDITIONS OR MATERIALS TO AVOID:**

Avoid contact with organic and combustible materials. Store away from any source of heat or flame.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Acid or ammonia contamination or excessive heat will cause the release of chlorine gas.

**SECTION VI - HEALTH HAZARD DATA**

**NFPA HAZARDOUS RATING:** Health = 3 Flammability = 0 Reactivity = 2

**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:** Skin contact can cause severe irritation or burns.

**Inhalation:** Dust can cause severe irritation or burns to the respiratory tract.

**Ingestion:** Harmful or fatal if swallowed, resulting in extensive burns to the gastrointestinal tract.

**STATEMENT OF PRACTICAL TREATMENT:**

**Contact:** Immediately flush exposed area with cool water. For eyes, flush with cool water for at least 15 minutes and get prompt medical attention.

**Inhalation:** Remove to fresh air. If breathing has stopped, administer artificial respiration (or oxygen if breathing is difficult). Call a physician at once!

**Ingestion:** If conscious, give several glasses of water or milk. **Do not** induce vomiting. Call a physician at once!

**SECTION VII - SPECIAL PRECAUTIONS**

**HANDLING AND STORAGE PRECAUTIONS:**

Avoid contact with eyes and skin. Do not take internally. Avoid breathing dust. Store in a cool, dry area away from organic and combustible material. Keep containers closed.



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

Evacuate area. Wear proper safety equipment. Sweep up product and recover into drums. Drench residue with large amounts of water, dike and recover into drums. **Do not** flush to sewer unless properly treated (1 part 35% hydrogen peroxide per pound of calcium hypochlorite) and **ONLY** if permitted by all applicable regulations.

**WASTE DISPOSAL METHOD:**

Waste product is an EPA hazardous waste due to reactivity (D003), and must be disposed of at an EPA-approved waste disposal facility. Comply with all local, state and federal regulations.

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

**RESPIRATORY PROTECTION:**

None normally required; respirator should be available.

**VENTILATION:**

Maintain adequate ventilation.

**EYE PROTECTION:**

Chemical goggles.

**SKIN PROTECTION:**

Rubber gloves, rubber boots, long-sleeved shirt.

**OTHER PROTECTIVE EQUIPMENT:**

As needed to prevent contact with eyes and skin, and to avoid inhalation of any dust.

**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

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.