

Section 1. Product and Company Identification

**Product Name** Calcium Hypochlorite  
**CAS Number** 7778-54-3

**Parchem - fine & specialty chemicals**  
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**New Rochelle, NY 10801**  
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Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

Oxidizing solids (Category 2): H272  
Acute toxicity, Oral (Category 4): H302  
Skin corrosion (Category 1B): H314  
Serious eye damage (Category 1): H318  
Acute aquatic toxicity (Category 1): H400  
Chronic aquatic toxicity (Category 1): H410

**GHS Label Elements**

**Pictograms:**



**Signal word:** DANGER

**Hazard and precautionary statements**

**Hazard statements**

H272: May intensify fire; oxidizer.  
H302: Harmful if swallowed.  
H314: Causes severe skin burns and eye damage.  
H318: Causes serious eye damage.  
H410: Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P210: Keep away from heat  
P220: Keep/Store away from clothing/combustible materials.  
P221: Take any precaution to avoid mixing with combustibles.



P260: Do not breathe dust or mist.  
P264: Wash skin thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P273: Avoid release to the environment.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.  
P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 + P310: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.  
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.  
P363: Wash contaminated clothing before reuse.  
P370 + P378: In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam for extinction.  
P391: Collect spillage.  
P405: Store locked up.  
P501: Dispose of contents/container to an approved waste disposal plant

**Hazards not otherwise classified (HNOC) or not covered by GHS:** Contact with acids liberates toxic gas.

Section 3. Composition / Information on Ingredients

**Common Name** Calcium Hypochlorite  
**Formula**  $\text{CaCl}_2\text{O}_2$   
**CAS Number** 7778-54-3

COMPONENT	CAS NUMBER	CONCENTRATION
Calcium Hypochlorite	7778-54-3	≤ 100%

Section 4. First Aid Measures

**Description of first aid measures**

**General advice:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Skin contact:** Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

**Eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.



Section 5. Firefighting Measures

**Suitable extinguishing media:** Dry powder

**Special hazards arising from the substance or mixture:** Hydrogen chloride gas, Calcium oxide

**Advice for firefighters:** Wear self-contained breathing apparatus for firefighting if necessary.

**Further information:** No data available

Section 6. Accidental Release Measures

**Personal precautions, protective equipment, and emergency procedures:**

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and materials for containment and cleaning up:** Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

**Reference to other sections:** For disposal see section 13

Section 7. Handling and Storage

**Precautions for safe handling:** Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition. For precautions see section 2.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a dry and well-ventilated place. Never allow product to get in contact with water during storage. Do not store near acids. Keep in a dry place.

**Storage class (TRGS 510):** Strongly oxidizing hazardous materials



Section 8. Exposure Controls / Personal Protection

**Control parameters**

**Components with workplace control parameters:** Contains no substances with occupational exposure limit values.

**Exposure controls**

**Appropriate engineering controls:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment**

**Eye/face protection:** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands

**Body Protection:** Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection:** Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Section 9. Physical and Chemical Properties

**Appearance:** Beige powder

**Odor:** No data available

**Odor Threshold:** No data available

**pH:** No data available

**Melting point/freezing point:** Melting point/range: 100°C (212°F) - lit.

**Initial boiling point and boiling range:** No data available

**Flash point:** Not applicable

**Evaporation rate:** No data available

**Flammability (solid, gas):** No data available

**Upper/lower flammability or explosive limits:** No data available

**Vapor pressure:** No data available

**Vapor density:** No data available

**Relative density:** 2.35 g/cm<sup>3</sup> at 25°C (77°F)



**Water solubility:** No data available  
**Partition coefficient (n-octanol/water):** No data available  
**Auto-ignition temperature:** No data available  
**Decomposition temperature:** No data available  
**Viscosity:** No data available  
**Explosive properties:** No data available  
**Oxidizing properties:** The substance or mixture is classified as oxidizing with the category 2.

**Other safety information:** No data available

Section 10. Stability and Reactivity

**Reactivity:** No data available

**Chemical stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** No data available

**Conditions to avoid:** No data available

**Incompatible materials:** Incompatible with acids. Strong reducing agents

**Hazardous decomposition products**

**Other decomposition products:** No data available

**In the event of fire:** See section 5

Section 11. Toxicological Information

**Information on toxicological effects**

**Acute toxicity**

**LD50 Oral:** Rat - 850 mg/kg

**Inhalation:** No data available

**Dermal:** No data available

**Skin corrosion/irritation:** No data available

**Serious eye damage/eye irritation:** No data available

**Respiratory or skin sensitization:** No data available

**Germ cell mutagenicity**

Hamster

Fibroblast

Cytogenetic analysis

**Carcinogenicity**

**IARC:** 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Calcium hypochlorite)

**ACGIH:** No components of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by ACGIH.



**NTP:** No components of this product, present at levels greater than or equal to 0.1%, is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No components of this product, present at levels greater than or equal to 0.1%, is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** No data available

**Specific target organ toxicity - single exposure:** No data available

**Specific target organ toxicity - repeated exposure:** No data available

**Aspiration hazard:** No data available

#### Additional Information

**RTECS:** NH3485000

#### Section 12. Ecological Information

##### Toxicity

##### Toxicity to fish

**LC50:** Lepomis macrochirus - 0.057 mg/l - 96.0 h

##### Toxicity to daphnia and other aquatic invertebrates

**EC50:** Daphnia magna (Water flea) - 0.067 mg/l - 48 h

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**Results of PBT and vPvB assessment:** PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life.

#### Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

#### Section 14. Transport Information

##### DOT (US)

**UN number:** 1748

**Class:** 5.1

**Packing group:** II

**Proper shipping name:** Calcium hypochlorite, dry

**Reportable Quantity (RQ):** 10 lbs



**Marine pollutant:** yes  
**Poison Inhalation Hazard:** No

**IMDG**

**UN number:** 1748  
**Class:** 5.1  
**Packing group:** II  
**EMS-No:** F-H, S-Q  
**Proper shipping name:** Calcium Hypochlorite, Dry  
**Marine pollutant:** yes

**IATA**

**UN number:** 1748  
**Class:** 5.1  
**Packing group:** II  
**Proper shipping name:** Calcium hypochlorite, dry

Section 15. Regulatory Information

**SARA 302 Components:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards:** Reactivity Hazard, Acute Health Hazard

**Massachusetts Right to Know Components**

Calcium hypochlorite (CAS-No. 7778-54-3)

**Pennsylvania Right to Know Components**

Calcium hypochlorite (CAS-No. 7778-54-3)

**New Jersey Right to Know Components**

Calcium hypochlorite (CAS-No. 7778-54-3)

**California Prop. 65 Components:** This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm

**HMIS Rating**

**Health:** 3  
**Flammability:** 0  
**Reactivity:** 2



**NFPA Rating**

**Health:** 3

**Flammability:** 0

**Reactivity:** 2

**Special hazards:** OX

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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