

Section 1. Product and Company Identification

**Product Name** Calcium Hydroxide  
**CAS Number** 1305-62-0

**Parchem - fine & specialty chemicals**  
**415 Huguenot Street**  
**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)**

Skin irritation (Category 2): H315

Serious eye damage (Category 1): H318

Specific target organ toxicity - single exposure (Category 3), Respiratory system: H335

Acute aquatic toxicity (Category 3): H402

**GHS Label Elements**

**Pictograms:**



**Signal word:** DANGER

**Hazard and precautionary statements**

**Hazard statements**

H315: Causes skin irritation.

H318: Causes serious eye damage.

H335: May cause respiratory irritation.

H402: Harmful to aquatic life.

**Precautionary statements**

P261: Avoid breathing dust/fume/gas/mist/vapors/spray.

P264: Wash skin thoroughly after handling.

P271: Use only outdoors or in a well-ventilated area.

P273: Avoid release to the environment.

P280: Wear eye protection/face protection.

P280: Wear protective gloves.



P302 + P352: IF ON SKIN: Wash with plenty of soap and water.  
P304 + P340 + P312: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  
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.  
P332 + P313: If skin irritation occurs: Get medical advice/attention.  
P362: Take off contaminated clothing and wash before reuse.  
P403 + P233: Store in a well-ventilated place. Keep container tightly closed.  
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:** None

Section 3. Composition / Information on Ingredients

**Common Name** Calcium Hydroxide  
**Synonym(s)** Calcium Dihydroxide  
**Formula**  $H_2CaO_2$   
**CAS Number** 1305-62-0

COMPONENT	CAS NUMBER	CONCENTRATION
Calcium Hydroxide	1305-62-0	≤ 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.

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

**Skin contact:** 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.

**Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effects, both acute and delayed:** The most important known symptoms and effects are described in the labelling and/or in section 11.

**Indication of any immediate medical attention and special treatment needed:** No data available

Section 5. Firefighting Measures

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide

**Special hazards arising from the substance or mixture:** 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:** Use personal protective equipment. 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:** Pick up and arrange disposal without creating dust. Sweep up and shovel. 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. For precautions see section 2.

**Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place.

**Storage class (TRGS 510):** Non Combustible Solids

Section 8. Exposure Controls / Personal Protection

**Control parameters**  
**Components with workplace control parameters**

Component	CAS-No	Value	Control parameters	Basis
Calcium dihydroxide	1305-62-0	TWA	5 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation Eye irritation Skin irritation		
		TWA	5.000000 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
		Upper Respiratory Tract irritation Eye irritation Skin irritation		



		TWA	15.000000 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	5.000000 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits

### 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

### Information on basic physical and chemical properties

**Appearance:** Beige powder

**Odor:** No data available

**Odor Threshold:** No data available

**pH:** 12.4 – 12.6 at 20°C (68°F)

**Melting point/freezing point:** ≥ 450°C (≥ 842°F)

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

**Flash point:** Not applicable

**Evaporation rate:** No data available

**Flammability (solid, gas):** The product is not flammable.

**Upper/lower flammability or explosive limits:** No data available  
**Vapor pressure:** No data available  
**Vapor density:** No data available  
**Relative density:** 2.24 g/mL at 25°C (77°F)  
**Water solubility:** 0.99 g/l at 20°C (68°F)  
**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 not classified as oxidizing

**Other safety information**

**Bulk density:** 200 – 800 kg/m<sup>3</sup>

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:** Strong acids

**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 - 7,340 mg/kg

**Inhalation:** No data available

**Skin corrosion/irritation**

**Skin:** Rabbit

**Result:** Irritating to skin. (OECD Test Guideline 404)

**Serious eye damage/eye irritation**

**Eyes:** Rabbit

**Result:** Severe eye irritation (OECD Test Guideline 405)

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

**Germ cell mutagenicity:** No data available

**Carcinogenicity**

**IARC:** No components of this product, present at levels greater than or equal to 0.1%, is identified as probable, possible or confirmed human carcinogen by IARC.

**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:** Inhalation - May cause respiratory irritation.

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

**Aspiration hazard:** No data available

**Additional Information**

**RTECS:** EW2800000

Section 12. Ecological Information

**Toxicity**

**Toxicity to fish**

**LC50:** Clarias gariepinus - 33.884 mg/l (96 h)

**Toxicity to daphnia and other aquatic invertebrates**

**EC50:** Daphnia magna (Water flea) - 49.1 mg/l (48 h)  
(OECD Test Guideline 202)

**Toxicity to algae**

**EC50:** Pseudokirchneriella subcapitata (green algae) - 184.6 mg/l (72 h)  
(OECD Test Guideline 201)

**Persistence and degradability:** The methods for determining biodegradability are not applicable to inorganic substances.

**Bioaccumulative potential:** Does not bioaccumulate

**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. Harmful to aquatic life. No data available



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):** Not dangerous goods

**IMDG:** Not dangerous goods

**IATA:** Not dangerous goods

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.

**Massachusetts Right to Know Components**

Calcium Dihydroxide (CAS-No. 1305-62-0)

**Pennsylvania Right to Know Components**

Calcium Dihydroxide (CAS-No. 1305-62-0)

**New Jersey Right to Know Components**

Calcium Dihydroxide (CAS-No. 1305-62-0)

**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:** 2

**Flammability:** 0

**Reactivity:** 0

**NFPA Rating**

**Health:** 2

**Flammability:** 0

**Reactivity:** 0



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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