



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

Safety Data Sheet (MSDS)

(According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards)

SECTION 1: Identification

1.1 Product Identifiers

- Product Name: Calcium Oxide
- Product Number: CAO-20260214
- Brand: SIGALD
- CAS-No.: 1305-78-8
- Synonyms: Quicklime; Burnt Lime

1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
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- Telephone : +86-021-50350029
- Fax : +86-021-50350029

1.3 Emergency telephone

Emergency Phone # : +86-021-50350029
(CHEMTREC)

1.4 Uses

- Identified Uses: Construction (cement production), water treatment (pH adjustment), steelmaking, agriculture (soil amendment), chemical synthesis.
- Uses Advised Against: Direct contact with skin/eyes without protection; use in food without authorization.

SECTION 2: Hazards Identification

2.1 GHS Classification: Skin corrosion (Category 1A); Eye damage (Category 1); Corrosive to metals (Category 1)
2.2 GHS Label Elements

- Hazard Pictogram: GHS05 (Corrosion)
- Signal Word: Danger
- Hazard Statements: H314 (Causes severe skin burns and eye damage), H290 (May be corrosive to metals)
- Precautionary Statements: P260 (Do not breathe dust/fume), P280 (Wear protective gloves/protective clothing/eye protection/face protection), P301+P330+P331 (If swallowed: Rinse mouth. Do NOT induce vomiting), P305+P351+P338 (If in eyes: Rinse cautiously with water)

SECTION 3: Composition

- Substance: Pure Substance
- Formula: CaO
- Molecular Weight: 56.08 g/mol
- Concentration: ≥ 95.0% (CaO)

SECTION 4: First Aid Measures



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- Inhaled: Move to fresh air. If breathing is difficult, give oxygen and consult a doctor.
- Skin Contact: Immediately remove contaminated clothing, rinse skin thoroughly with plenty of running water for 15-20 minutes. Consult a doctor.
- Eye Contact: Hold eyes open, rinse thoroughly with large amounts of running water for 15-20 minutes. Immediately call a doctor.
- Swallowed: Rinse mouth with water. Do not induce vomiting. Immediately call a poison center or doctor.

SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Water spray (avoid direct contact, use mist), foam, dry powder.
- Special Hazards: Non-combustible. Reacts violently with water, releasing heat.
- Firefighter Protection: Wear full protective equipment and self-contained breathing apparatus.

SECTION 6: Accidental Release Measures

- Personal Precautions: Wear chemical protective suit, gloves, eye/face protection.
- Environmental Precautions: Prevent runoff into waterways.
- Cleanup Methods: Neutralize with dilute acid (e.g., acetic acid), then absorb with inert material and dispose of properly.

SECTION 7: Handling and Storage

- Handling: Use corrosion-resistant equipment. Avoid contact with water, skin, eyes, and respiratory tract.
- Storage: Store in cool, dry, well-ventilated warehouse. Use moisture-proof containers. Keep away from water, acids, and metals.
- Shelf Life: 12 months (unopened, proper storage).

SECTION 8: Exposure Controls/Personal Protection

- PPE: Chemical-resistant suit, nitrile gloves, chemical splash goggles, face shield, dust mask.
- Engineering Controls: Closed system, good ventilation, emergency eyewash and shower.

SECTION 9: Physical and Chemical Properties

- Physical State: Lump/powder
- Color: White to off-white
- Odor: Odorless
- Melting Point: 2613°C
- Boiling Point: 2850°C
- Solubility: Reacts violently with water to form calcium hydroxide; soluble in acids.
- pH (1% suspension): ≥ 12
- Density: 3.34 g/cm³ (25°C)
- Reactivity: Reacts exothermically with water.

SECTION 10: Stability and Reactivity

- Stable under dry conditions. Incompatible with water, acids, metals, organic materials.

SECTION 11: Toxicological Information



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- Oral LD₅₀ (Rat): 350 mg/kg
- Skin Corrosion: Severe corrosion.
- Eye Damage: Severe eye damage.

SECTION 12: Ecological Information

- Aquatic Toxicity: Highly toxic to aquatic organisms (pH elevation).
- Biodegradability: Not biodegradable.

SECTION 13: Disposal Considerations

- Dispose in accordance with local regulations. Neutralize with acid before disposal.

SECTION 14: Transport Information

- UN Number: UN1910
- Transport Hazard Class: 8 (Corrosive substances)
- Packaging Group: II

SECTION 15: Regulatory Information

- Complies with GHS, REACH, TSCA regulations.

SECTION 16: Other Information

- Revision Date: 14 FEB 2026



纳维盈医化科技
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