



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: Sodium Hydroxide
- Product Number: NAO-20260222
- Brand: SIGALD
- CAS-No.: 1310-73-2
- Synonyms: Caustic Soda; Lye

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: Chemical synthesis, pulp and paper, textile processing, water treatment, soap making, food processing (pH adjustment).
- Uses Advised Against: Unauthorized use in cosmetics; direct contact with skin without protection.

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/gas/mist/vapors/spray), 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 for several minutes)

SECTION 3: Composition

- Substance: Pure Substance
- Formula: NaOH
- Molecular Weight: 40.00 g/mol



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- Concentration: $\geq 98.0\%$ (NaOH)

SECTION 4: First Aid Measures

- 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, foam, dry powder, CO₂.
- Special Hazards: Non-combustible. Reacts with metals (aluminum, zinc) to produce flammable hydrogen gas.
- 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 skin, eyes, and respiratory tract. Do not mix with acids, metals, or organic materials.
- Storage: Store in cool, dry, well-ventilated warehouse. Use corrosion-resistant containers. Keep away from acids, metals, and oxidizing agents.
- Shelf Life: 24 months (unopened, proper storage).

SECTION 8: Exposure Controls/Personal Protection

- PPE: Chemical-resistant suit, nitrile gloves, chemical splash goggles, face shield, respiratory protection (for dust/fume).
- Engineering Controls: Closed system, good ventilation, emergency eyewash and shower.

SECTION 9: Physical and Chemical Properties

- Physical State: Flake/granular
- Color: White
- Odor: Odorless
- Melting Point: 318°C
- Boiling Point: 1390°C
- Solubility: Highly soluble in water (111 g/100 mL at 20°C), exothermic.
- pH (1% solution): ≥ 13
- Density: 2.13 g/cm³ (25°C)



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- Corrosivity: Corrosive to metals, skin, and eyes.

SECTION 10: Stability and Reactivity

- Stable under normal conditions. Incompatible with acids, metals, organic materials, oxidizing agents.

SECTION 11: Toxicological Information

- 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: UN1823
- Transport Hazard Class: 8 (Corrosive substances)
- Packaging Group: II

SECTION 15: Regulatory Information

- Complies with GHS, REACH, TSCA, FDA (for food grade) regulations.

SECTION 16: Other Information

- Revision Date: 22 FEB 2026

纳维盈医化科技
NEWAY SINOPHC TECH