



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 Hydride
- Product Number: NAH-20260221
- Brand: SIGALD
- CAS-No.: 7646-69-7
- Synonyms: Sodium Monohydride; Hydride of Sodium

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: Organic synthesis (strong reducing agent), catalyst, hydrogen generation, metal surface treatment.
- Uses Advised Against: Unauthorized use; contact with water or protic solvents without proper safeguards.

SECTION 2: Hazards Identification

2.1 GHS Classification: Flammable solid (Category 1); Skin corrosion (Category 1A); Eye damage (Category 1); Aquatic toxicity (Category 1)
2.2 GHS Label Elements

- Hazard Pictogram: GHS02 (Flame), GHS05 (Corrosion), GHS09 (Environment)
- Signal Word: Danger
- Hazard Statements: H250 (Catches fire spontaneously if exposed to air), H260 (In contact with water releases flammable gases which may ignite spontaneously), H314 (Causes severe skin burns and eye damage), H400 (Very toxic to aquatic life)
- Precautionary Statements: P223 (Keep away from water), P231+P232 (Handle under inert gas. Protect from moisture), P280 (Wear protective gloves/protective clothing/eye protection/face protection), P305+P351+P338 (If in eyes: Rinse cautiously with water), P370+P378 (In case of fire: Use dry sand, dry powder or carbon dioxide extinguishing media)

SECTION 3: Composition

- Substance: Mixture (Sodium Hydride + Mineral Oil)
- Formula: NaH (dispersed in mineral oil)
- Molecular Weight: 24.00 g/mol (NaH)



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- Concentration: 60.0-65.0% (NaH), 35.0-40.0% (mineral oil)

SECTION 4: First Aid Measures

- Inhaled: Move to fresh air. If breathing is difficult, give oxygen. Consult a doctor immediately.
- 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: Do not induce vomiting. Rinse mouth with water. Immediately call a poison center or doctor.

SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Dry sand, dry powder, carbon dioxide (CO₂).
- Unsuitable Extinguishing Media: Water, foam, aqueous extinguishing agents.
- Special Hazards: Reacts violently with water to produce flammable hydrogen gas; may ignite spontaneously.
- 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, respiratory protection. Handle under inert gas.
- Environmental Precautions: Prevent runoff into waterways.
- Cleanup Methods: Cover with dry sand or inert material, transfer to sealed containers under inert gas for disposal. Do not use water.

SECTION 7: Handling and Storage

- Handling: Use only in dry, inert gas (nitrogen/argon) atmosphere. Avoid contact with water, air, acids, alcohols. Use moisture-free equipment.
- Storage: Store in cool, dry, well-ventilated warehouse. Keep container tightly closed under inert gas. Avoid moisture, heat, and oxidizing agents. Storage temperature ≤ 25°C.
- Shelf Life: 12 months (unopened, under specified storage conditions).

SECTION 8: Exposure Controls/Personal Protection

- PPE: Chemical-resistant suit, nitrile gloves, chemical splash goggles, face shield, respiratory protection (P2/N95).
- Engineering Controls: Closed system, inert gas purging, good ventilation, moisture-free environment.

SECTION 9: Physical and Chemical Properties

- Physical State: Powder (dispersed in mineral oil)
- Color: White to gray
- Odor: Odorless
- Melting Point: 800°C (decomposes, in inert gas)
- Solubility: Reacts violently with water; insoluble in mineral oil, hydrocarbons.



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- Density: 1.39 g/cm³ (NaH, 25°C)
- Reactivity: Reacts violently with water, protic solvents, acids.

SECTION 10: Stability and Reactivity

- Stable under inert gas and dry conditions. Incompatible with water, air, acids, alcohols, oxidizing agents.

SECTION 11: Toxicological Information

- Oral LD₅₀ (Rat): > 100 mg/kg
- Skin Corrosion: Severe corrosion.
- Eye Damage: Severe eye damage.

SECTION 12: Ecological Information

- Aquatic Toxicity: Very toxic to aquatic organisms.
- Biodegradability: Not biodegradable.

SECTION 13: Disposal Considerations

- Dispose in accordance with local regulations. Treat with dilute ethanol under controlled conditions (to neutralize) before disposal.

SECTION 14: Transport Information

- UN Number: UN1427
- Transport Hazard Class: 4.3 (Dangerous when wet)
- Packaging Group: I

SECTION 15: Regulatory Information

- Complies with GHS, REACH, TSCA regulations.

SECTION 16: Other Information

- Revision Date: 21 FEB 2026

纳维盈医化科技
NEWAY SINOPHC TECH