



# 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 Borohydride
- Product Number: SBH-20260223
- Brand: SIGALD
- CAS-No.: 16940-66-2
- Synonyms: Sodium Tetrahydroborate; Borohydride 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 (reducing agent), electroplating, wastewater treatment (heavy metal removal), paper bleaching, hydrogen generation.
- Uses Advised Against: Unauthorized use; contact with strong acids without protection.

### SECTION 2: Hazards Identification

2.1 GHS Classification: Skin corrosion (Category 1A); Eye damage (Category 1); Aquatic toxicity (Category 1); Flammable solid (Category 2)2.2 GHS Label Elements

- Hazard Pictogram: GHS02 (Flame), GHS05 (Corrosion), GHS09 (Environment)
- Signal Word: Danger
- Hazard Statements: H251 (Susceptible to spontaneous combustion in air), H314 (Causes severe skin burns and eye damage), H400 (Very toxic to aquatic life)
- Precautionary Statements: P222 (Do not allow contact with air), 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: Pure Substance
- Formula:  $\text{NaBH}_4$
- Molecular Weight: 37.83 g/mol
- Concentration:  $\geq 98.0\%$  ( $\text{NaBH}_4$ )

### SECTION 4: First Aid Measures



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- 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 (CO<sub>2</sub>).
- Unsuitable Extinguishing Media: Water, foam, aqueous extinguishing agents.
- Special Hazards: Reacts with water (slowly in cold, violently in hot) to release hydrogen gas; may ignite in air.
- 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.
- Environmental Precautions: Prevent runoff into waterways.
- Cleanup Methods: Sweep up with inert material (dry sand, vermiculite), transfer to sealed containers for disposal. Do not use water.

### SECTION 7: Handling and Storage

- Handling: Use in well-ventilated area. Avoid contact with air, water, acids, oxidizing agents. Use moisture-free equipment.
- Storage: Store in cool, dry, well-ventilated warehouse. Keep container tightly closed. Avoid moisture, heat, and oxidizing agents. Storage temperature ≤ 30°C.
- Shelf Life: 18 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: Good ventilation, moisture-free environment, inert gas purging (for large-scale handling).

### SECTION 9: Physical and Chemical Properties

- Physical State: Crystalline powder
- Color: White
- Odor: Odorless
- Melting Point: 400°C (decomposes)
- Solubility: Soluble in water (100 g/L at 20°C, slow reaction); soluble in alcohols, ethers.
- pH (1% solution): 10-11
- Density: 1.07 g/cm<sup>3</sup> (25°C)



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- Reactivity: Reacts with water, acids, oxidizing agents.

### **SECTION 10: Stability and Reactivity**

- Stable under dry conditions. Incompatible with air, water, acids, oxidizing agents, heavy metal salts.

### **SECTION 11: Toxicological Information**

- Oral LD<sub>50</sub> (Rat): 18 mg/kg
- Skin Corrosion: Severe corrosion.
- Eye Damage: Severe eye damage.

### **SECTION 12: Ecological Information**

- Aquatic Toxicity: Very toxic to aquatic organisms (LC<sub>50</sub> < 1 mg/L for fish).
- Biodegradability: Not biodegradable.

### **SECTION 13: Disposal Considerations**

- Dispose in accordance with local regulations. Neutralize with dilute acid (under controlled conditions) before disposal.

### **SECTION 14: Transport Information**

- UN Number: UN1426
- 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: 23 FEB 2026

纳维盈医化科技  
NEWAY SINOPHC TECH