



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 Phosphide
- Product Number: SNP-20260207
- Brand: SIGALD
- CAS-No.: 12058-85-4
- Synonyms: Trisodium Phosphide

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 (phosphine production), semiconductor manufacturing, laboratory reagent, hydrogen storage materials.
- Uses Advised Against: Unauthorized use; contact with water or protic solvents without protection.

SECTION 2: Hazards Identification

2.1 GHS Classification: Flammable solid (Category 2); 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: 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)

SECTION 3: Composition

- Substance: Pure Substance
- Formula: Na₃P
- Molecular Weight: 99.94 g/mol
- Concentration: ≥ 95.0% (Na₃P)



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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 toxic phosphine 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.
- Storage: Store in cool, dry, well-ventilated warehouse. Keep container tightly closed under inert gas. 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, moisture-free environment.

SECTION 9: Physical and Chemical Properties

- Physical State: Powder
- Color: Gray to black
- Odor: Odorless (reacts with water to produce phosphine odor)
- Melting Point: 650°C (decomposes)
- Solubility: Reacts violently with water; insoluble in organic solvents.
- Density: 1.84 g/cm³ (25°C)

SECTION 10: Stability and Reactivity



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

SECTION 11: Toxicological Information

- Oral LD₅₀ (Rat): > 50 mg/kg
- Skin Corrosion: Severe corrosion.
- Eye Damage: Severe eye damage.

SECTION 12: Ecological Information

- Aquatic Toxicity: Very toxic to aquatic organisms (releases phosphine and hydroxide ions in water).
- Biodegradability: Not biodegradable.

SECTION 13: Disposal Considerations

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

SECTION 14: Transport Information

- UN Number: UN1432
- 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: 07 FEB 2026

纳维盈医化科技
NEWAY SINOPHC TECH