



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: Aluminum Nitride
- Product Number: ALN-20260206
- Brand: SIGALD
- CAS-No.: 24304-00-5
- Synonyms: Aluminium Nitride

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: Ceramic materials (high thermal conductivity), electronic packaging, refractory materials, composite materials, semiconductor substrates.
- Uses Advised Against: Direct oral consumption; inhalation of fine dust in high concentrations.

SECTION 2: Hazards Identification

2.1 GHS Classification: Eye irritation (Category 2A); Skin irritation (Category 2); Respiratory irritation (Category 3)
2.2 GHS Label Elements

- Hazard Pictogram: GHS07 (Exclamation mark)
- Signal Word: Warning
- Hazard Statements: H315 (Causes skin irritation), H319 (Causes serious eye irritation), H335 (May cause respiratory irritation)
- Precautionary Statements: P261 (Avoid breathing dust), P264 (Wash hands thoroughly after handling), P280 (Wear protective gloves/eye protection), P305+P351+P338 (If in eyes: Rinse cautiously with water)

SECTION 3: Composition

- Substance: Pure Substance
- Formula: AlN
- Molecular Weight: 40.99 g/mol
- Concentration: $\geq 98.0\%$ (AlN)

SECTION 4: First Aid Measures

- Inhaled: Move to fresh air. If coughing persists, consult a doctor.



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- Skin Contact: Rinse skin with running water for 10 minutes.
- Eye Contact: Rinse eyes thoroughly with running water for 15 minutes. Consult a doctor if irritation remains.
- Swallowed: Rinse mouth with water. Do not induce vomiting. Seek medical advice if discomfort occurs.

SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Water spray, foam, dry powder, CO₂.
- Special Hazards: Non-combustible. Reacts with water at high temperature to produce ammonia gas.
- Firefighter Protection: Wear standard fire-fighting gear; avoid inhalation of dust.

SECTION 6: Accidental Release Measures

- Personal Precautions: Wear gloves, eye protection, dust mask.
- Cleanup Methods: Sweep up with inert material, transfer to sealed containers for disposal.

SECTION 7: Handling and Storage

- Handling: Avoid dust inhalation. Operate in well-ventilated area.
- Storage: Store in cool, dry, well-ventilated warehouse. Keep container tightly closed. Avoid high temperatures (> 800°C) and moisture.
- Shelf Life: 36 months (unopened, proper storage).

SECTION 8: Exposure Controls/Personal Protection

- PPE: Nitrile gloves, safety goggles, dust mask (P2/N95 for large-scale handling).
- Engineering Controls: Good ventilation, dust collection system.

SECTION 9: Physical and Chemical Properties

- Physical State: Powder
- Color: White to pale gray
- Odor: Odorless
- Melting Point: 2200°C (under nitrogen atmosphere)
- Boiling Point: 2517°C
- Solubility: Insoluble in water (reacts at high temperature); soluble in strong acids.
- Density: 3.26 g/cm³ (25°C)
- Thermal Conductivity: 180-200 W/(m·K) (25°C)
- Particle Size: 1-10 μm

SECTION 10: Stability and Reactivity

- Stable under normal conditions. Incompatible with strong acids, high temperatures (> 800°C) in presence of water.

SECTION 11: Toxicological Information

- Oral LD₅₀ (Rat): > 10000 mg/kg
- Skin Irritation: Mild irritation.
- Eye Irritation: Moderate irritation.



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SECTION 12: Ecological Information

- Aquatic Toxicity: Low toxicity to aquatic organisms.
- Biodegradability: Not biodegradable.

SECTION 13: Disposal Considerations

- Dispose in accordance with local regulations. Classified as non-hazardous waste.

SECTION 14: Transport Information

- UN Number: Not regulated as dangerous goods
- Transport Hazard Class: -
- Packaging Group: -

SECTION 15: Regulatory Information

- Complies with GHS, REACH, TSCA regulations.

SECTION 16: Other Information

- Revision Date: 06 FEB 2026



纳维盈医化科技
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