

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:1,6-Hexanediamine
- Product Number:HDA-20260217
- Brand:SIGALD
- CAS-No.:124-09-4
- Synonyms:Hexamethylenediamine; HMDA

1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
- RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI)PILOT FREE TRADE ZONE.
- 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 (nylon 66 monomer), epoxy curing agent, coatings, adhesives, pharmaceutical intermediates.
- Uses Advised Against:Direct oral consumption; contact with strong oxidizing agents without protection.

SECTION 2: Hazards Identification

2.1 GHS Classification:Skin corrosion/irritation (Category 1A); Eye damage (Category 1); Acute toxicity (oral, Category 3); Aquatic toxicity (Category 1)2.2 GHS Label Elements

- Hazard Pictogram:GHS05 (Corrosion), GHS06 (Skull and crossbones), GHS09 (Environment)
- Signal Word:Danger
- Hazard Statements:H314 (Causes severe skin burns and eye damage), H301 (Toxic if swallowed), H400 (Very toxic to aquatic life)
- Precautionary Statements:P264 (Wash hands thoroughly after handling), P280 (Wear protective gloves/protective clothing/eye protection/face protection), P270 (Do not eat/drink when using), P305+P351+P338 (If in eyes: Rinse cautiously with water)

SECTION 3: Composition

- Substance:Pure Substance
- Formula:C₆ H₁₆ N₂
- Molecular Weight:116.21 g/mol
- Concentration:≥ 99.0% (C₆ H₁₆ N₂)

SECTION 4: First Aid Measures



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- Inhaled:Move to fresh air. Consult a doctor if symptoms persist.
- Skin Contact:Immediately remove contaminated clothing, rinse skin thoroughly with running water for 15-20 minutes. Consult a doctor.
- Eye Contact:Rinse with plenty of water for 15-20 minutes. Immediately call a doctor.
- Swallowed:Rinse mouth with water; do not induce vomiting. Call a poison center/doctor immediately.

SECTION 5: Firefighting Measures

- Suitable Extinguishing Media:Water spray, foam, CO₂, dry powder.
- Special Hazards:Flammable (flash point 81 °C); combustion releases toxic fumes.
- Firefighter Protection:Wear full protective gear and 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 materials; transfer to sealed containers.

SECTION 7: Handling and Storage

- Handling:Operate in well-ventilated area; avoid dust inhalation, skin/eye contact.
- Storage Conditions:Cool, dry, well-ventilated warehouse ($\leq 30^{\circ}\text{C}$); keep sealed; away from oxidizing agents.
- Shelf Life:24 months (unopened).

SECTION 8: Exposure Controls/Personal Protection

- PPE:Chemical-resistant suit, nitrile gloves, chemical splash goggles, face shield, respirator.
- Engineering Controls:Good ventilation, local exhaust system.

SECTION 9: Physical and Chemical Properties

- Physical State:Crystalline solid
- Color:Colorless to pale yellow
- Odor:Amine-like odor
- Melting Point:40-42°C
- Boiling Point:204-205°C
- Flash Point:81 °C (Closed Cup)
- Solubility:Soluble in water, alcohols, ethers
- Density (25°C):0.88 g/cm³

SECTION 10: Stability and Reactivity

- Stable under normal storage. Incompatible with strong oxidizing agents, acids.

SECTION 11: Toxicological Information

- Oral LD₅₀ (Rat):250 mg/kg; Skin Corrosion:Severe corrosion.

SECTION 12: Ecological Information

- Very toxic to aquatic life; not biodegradable.



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SECTION 13: Disposal Considerations

- Dispose via licensed waste facilities; neutralize before disposal.

SECTION 14: Transport Information

- UN Number:UN2280
- Transport Hazard Class:8 (Corrosive substances)
- Packaging Group:II

SECTION 15: Regulatory Information

- Complies with GHS, REACH, TSCA.

SECTION 16: Other Information

- Revision Date:17 FEB 2026

