



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)

Disodium Edetate (EDTA Disodium)

SECTION 1: Identification

1.1 Product Identifiers

- Product Name: Disodium Edetate (EDTA Disodium)
- Product Number: EDTA-NA2-CAS6381926-202608
- Brand: SIGALD
- CAS-No.: 6381-92-6
- Synonyms: EDTA Na₂; Ethylenediaminetetraacetic Acid Disodium Salt Dihydrate
- Chemical Family: Aminopolycarboxylic Acid Salt

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 & Restrictions

- Identified Uses: Chelating agent in water treatment, food processing (preservative, stabilizer); detergent additive; pharmaceutical auxiliary; metal surface treatment.
- Uses Advised Against: Direct oral consumption in large quantities; not for medical injection without formulation approval.

SECTION 2: Hazards Identification

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

- Hazard Pictogram: None
- Signal Word: WARNING
- Hazard Statements: H316 (Causes mild skin irritation); H320 (Causes mild eye irritation)
- Precautionary Statements: P264, P280, P305+P351+P338

2.3 Physical/Chemical Hazards: No physical hazards (non-flammable, non-explosive); stable under normal conditions.2.4 Health Hazards: Mild skin/eye irritation in sensitive individuals; no acute/chronic toxicity; may cause gastrointestinal discomfort if swallowed in large amounts.2.5 Environmental Hazards: Low toxicity to aquatic organisms; biodegradable (slow degradation rate); no eutrophication risk.

SECTION 3: Composition/Information on Ingredients



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- Substance/Mixture: Pure Substance (Hydrate) | Component | Content (w/w) | CAS-No. | Hazard Classification | |-----|-----|-----|-----| | Disodium Edetate Dihydrate | ≥ 99.0% | 6381-92-6 | Skin Irrit. 3; Eye Irrit. 3 |

SECTION 4: First Aid Measures

- Inhaled: Move to fresh air; no special treatment if no discomfort; consult a doctor if coughing or chest tightness persists.
- Skin Contact: Rinse skin with plenty of running water for 5-10 minutes; wash contaminated clothing before reuse.
- Eye Contact: Rinse eyes thoroughly with water/normal saline for 10 minutes; remove contact lenses if present; consult a doctor if irritation continues.
- Swallowed: Rinse mouth with water; do not induce vomiting; drink plenty of water to dilute; seek medical attention if abdominal pain or nausea occurs.

SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Water spray, foam, carbon dioxide (CO₂), dry powder.
- Unsuitable Media: No restrictions.
- Special Hazards: Non-combustible; decomposes above 240°C releasing toxic fumes (nitrogen oxides, carbon oxides).
- Firefighter Advice: Wear standard fire-fighting gear; cool containers with water spray if involved in fire; wear SCBA for large-scale decomposition.

SECTION 6: Accidental Release Measures

- Personal Precautions: Wear nitrile gloves and safety glasses; avoid dust inhalation.
- Environmental Precautions: Prevent runoff into sewers/rivers; sweep up spilled powder to avoid aquatic organism exposure.
- Cleanup: Small spill - sweep into sealed containers for reuse or disposal; large spill - transfer to corrosion-resistant tanks, avoid dust dispersion.

SECTION 7: Handling and Storage

- Handling: Operate in well-ventilated area; avoid generating dust; wash hands after handling; avoid contact with skin/eyes.
- Storage: Cool, dry warehouse (5-30°C); keep container tightly closed; avoid direct sunlight and high humidity; store separately from strong acids/oxidizing agents.
- Shelf Life: 24 months (unopened, specified conditions); 6 months after opening.

SECTION 8: Exposure Controls/Personal Protection

- PPE: Safety glasses and nitrile gloves for routine handling; dust mask (FFP1) if dust is generated; protective clothing for large-scale operations.
- Engineering Controls: Local exhaust ventilation for dust-generating processes; basic ventilation for general handling.

SECTION 9: Physical and Chemical Properties

- Physical State: Solid (crystalline powder); Color: White; Odor: Odorless



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- pH (1% Solution): 4.0-6.0; Melting Point: 252°C (decomposes); Solubility: 100 g/L (25°C, water)
- Density (25°C): 1.73 g/cm³; Particle Size: 80-200 mesh; Vapor Pressure: < 0.1 hPa (25°C)

SECTION 10: Stability and Reactivity

- Stability: Stable under normal storage/handling; no polymerization risk.
- Incompatibilities: Strong acids (releases EDTA acid); strong oxidizing agents; heavy metal salts (forms complexes).
- Hazardous Decomposition Products: NO_x, CO, CO₂ (above 240°C).

SECTION 11: Toxicological Information

- Acute Toxicity: Oral (Rat, LD₅₀): > 2000 mg/kg; Dermal (Rabbit, LD₅₀): > 5000 mg/kg
- Skin/Eye Irritation: Mild irritation, reversible within 24-48 hours.
- Carcinogenicity: Not classified as carcinogenic by IARC, EPA, or NTP.

SECTION 12: Ecological Information

- Fish (Zebrafish, LC₅₀): > 1000 mg/L (96h); Daphnia (EC₅₀): > 500 mg/L (48h)
- Biodegradability: Biodegradation rate > 60% in 60 days (OECD 301B test).

SECTION 13: Disposal Considerations

- Product Waste: Classified as non-hazardous waste; dispose via licensed waste treatment facilities or recycle.
- Packaging Waste: Rinse thoroughly; recycle as non-hazardous waste or dispose of as municipal solid waste.

SECTION 14: Transport Information

- UN Number: - (Not dangerous goods)
- Transport Class: -; Packaging Group: -
- UN Proper Shipping Name: Non-dangerous goods (Disodium Edetate)
- Special Precautions: Transport in sealed containers; avoid moisture and physical damage; no special transport conditions.

SECTION 15: Regulatory Information

- National Regulations: Complies with China Hazardous Chemical Safety Management Regulation (non-hazardous); GB 29207-2012 (food-grade standard).
- International Regulations: GHS Rev.9 (Irritation 3); REACH (not in SVHC List); TSCA (listed); FDA (approved for food contact).

SECTION 16: Other Information

- Revision Date: 20 AUG 2025
- Disclaimer: Based on current scientific knowledge; supplier not liable for improper use.