



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) **Revision**

Date: 05 FEB 2026

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1 Product Identifiers

- Product Name: Ascorbic Acid (Vitamin C)
- Product Number: AAC-20260205
- Brand: SIGALD
- CAS-No.: 50-81-7
- Synonyms: L-Ascorbic Acid; Vitamin C; L-xyloascorbic acid
- MDL Number: MFCD00064237

1.2 Details of the supplier

- Company: NEWAY SINOPHC TECH. LIMITED
- Address: 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:** +86-021-50350029 (CHEMTREC)

1.4 Identified Uses & Uses Advised Against

- Identified Uses: Food additive (fortification), pharmaceutical raw material, cosmetic ingredient, feed additive, industrial antioxidant.
- Uses Advised Against: No unauthorized industrial use; avoid direct contact with strong oxidants in bulk.

SECTION 2: Hazards Identification

2.1 **GHS Classification:** Skin irritation (Category 2); Eye irritation (Category 2) 2.2 **GHS Label**

Elements

- Hazard Pictogram: (Warning)
- Signal Word: Warning
- Hazard Statements: H315 (Causes skin irritation); H319 (Causes serious eye irritation)
- Precautionary Statements: P264, P280, P302+P352, P305+P351+P338, P332+P313, P337+P313 2.3

Physical and Chemical Hazards: Mild oxidizing property; non-combustible. 2.4 **Health Hazards:**

Mild skin/eye irritation; oral ingestion in normal doses is non-toxic; high doses may cause gastrointestinal discomfort. 2.5 **Environmental Hazards:** Environmentally friendly; fully biodegradable; no adverse effects on aquatic/terrestrial organisms. 2.6 **Other Hazards:** No

additional hazards identified.

SECTION 3: Composition/Information on Ingredients

- Substance / Mixture: Pure Substance
- Active Ingredient: Ascorbic Acid (100%, w/w) | CAS:50-81-7 | Skin/Eye Irritant (Category 2)
- No hazardous ingredients present except inherent mild irritation.



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SECTION 4: First Aid Measures

4.1 First-Aid Measures

- If Inhaled: Move to fresh air; rest if coughing occurs; no special treatment for mild exposure.
 - In Case of Skin Contact: Remove contaminated clothing; rinse skin with plenty of running water for 10-15 minutes; apply emollient if irritation appears.
 - In Case of Eye Contact: Rinse eyes thoroughly with running water for 10-15 minutes (hold eyelids open); consult an ophthalmologist if redness/irritation persists.
 - If Swallowed: Rinse mouth with water; drink 1-2 glasses of water; consult a doctor only if high-dose ingestion causes nausea/diarrhea.
- 4.2 Symptoms and Effects:** Skin redness/itching; eye redness/tearing; high oral dose: abdominal pain, diarrhea, nausea.
- 4.3 Medical Attention:** Treat symptomatically; no specific antidote required.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media: Water spray, foam, carbon dioxide (CO₂), dry powder.

5.2 Special Hazards: Non-combustible; decomposes at high temperature to release carbon dioxide and water vapor; no toxic combustion gases.

5.3 Firefighter Advice: Wear standard fire-fighting gear; avoid inhalation of thermal decomposition fumes.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions: Wear dust mask, safety glasses, and nitrile gloves; avoid dust inhalation and skin/eye contact.

6.2 Environmental Precautions: No special measures; product is biodegradable and non-polluting; rinse spilled solution into sewage system with water.

6.3 Clean Up: Sweep up spilled powder with a brush; transfer to sealed container for reuse/disposal; wipe the area with water to remove residual dust.

6.4 Disposal Reference: See Section 13.

SECTION 7: Handling and Storage

7.1 Safe Handling: Operate in a well-ventilated area; avoid dust generation/inhalation; wear PPE (Section 8); wash hands thoroughly after handling; avoid contact with strong oxidizing agents/alkalis.

7.2 Safe Storage

- Conditions: Store in a cool, dry, dark warehouse ($\leq 25^{\circ}\text{C}$); keep container tightly closed; protect from moisture, light and heat.
- Incompatibilities: Strong oxidizing agents (e.g., hydrogen peroxide), strong alkalis (e.g., NaOH), heavy metal salts.
- Storage Class: 13 (Non-Hazardous Solids, mild irritation)
- Shelf Life: 24 months (unopened, specified storage conditions)

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters: No occupational exposure limits (national/international standards).

8.2 Exposure Controls

- Engineering Controls: Basic ventilation sufficient; dust collection system for large-scale bulk handling.



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- PPE: Dust mask (N95 for dust), impact-resistant safety glasses (eye protection), nitrile rubber gloves (skin protection), lab coat (body protection).
- Environmental Controls: No special measures required.

SECTION 9: Physical and Chemical Properties

- Physical State: Crystalline powder
- Color: White to off-white
- Odor: Odorless
- Melting Point: 190-192°C (decomposition)
- Solubility: Freely soluble in water; slightly soluble in ethanol; insoluble in ether, chloroform
- pH (5% aqueous solution, 25°C): 2.0-2.5
- Bulk Density: 1.5-1.7 g/cm³
- Flammability: Non-combustible
- Oxidizing Properties: Mild oxidizing property; also acts as an antioxidant
- Explosive Properties: Not explosive

SECTION 10: Stability and Reactivity

10.1 **Stability:** Stable under recommended storage/use conditions; degrades in light, heat and alkaline environment.

10.2 **Hazardous Reactions:** No hazardous reactions under normal use; reacts with strong oxidants to generate carbon dioxide.

10.3 **Conditions to Avoid:** High temperature (> 180°C), direct sunlight, moisture, contact with strong oxidants/alkalis.

10.4 **Incompatibilities:** Hydrogen peroxide, sodium hydroxide, potassium permanganate, heavy metal ions (Fe³⁺, Cu²⁺).

10.5 **Decomposition Products:** Carbon dioxide, water vapor; no toxic decomposition products.

SECTION 11: Toxicological Information

- Acute Oral Toxicity (Rat, LD₅₀): 11,900 mg/kg
- Acute Dermal Toxicity (Rabbit, LD₅₀): > 5000 mg/kg
- Skin Irritation (Rabbit): Mild irritation (Category 2)
- Eye Irritation (Rabbit): Moderate irritation (Category 2)
- Sensitization: No skin/respiratory sensitization
- Carcinogenicity: Not classified by IARC/EPA/NTP
- Reproductive Toxicity: No known reproductive effects at normal use doses

SECTION 12: Ecological Information

- Aquatic Toxicity (Zebrafish, LC₅₀, 96h): > 10000 mg/L
- Biodegradability: Fully biodegradable (BOD₅/COD > 0.7)
- Bioaccumulation Potential: No bioaccumulation in aquatic/terrestrial organisms
- Soil Mobility: Moderate; no adverse effects on soil microorganisms

SECTION 13: Disposal Considerations

- Product Waste: Dispose via licensed waste treatment facilities; or reuse as raw material if uncontaminated; dilute aqueous solution can be discharged into municipal sewage system.



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- Packaging Waste: Rinse packaging thoroughly with water; dispose as non-hazardous solid waste or recycle.
- Compliance: Follow local/national/international waste disposal regulations.

SECTION 14: Transport Information

- UN Number: ADR/RID/IMDG/IATA: -
- UN Proper Shipping Name: Non-dangerous goods (all modes)
- Transport Hazard Class: -
- Packaging Group: -
- Environmental Hazards: No (non-marine pollutant)
- Transport Precautions: Avoid moisture, light, high temperature (>30°C) and collision; separate from strong oxidants/alkalis during transport.

SECTION 15: Regulatory Information

- National (China): Non-hazardous chemical (mild irritation); complies with Food Safety Law, Pharmaceutical Administration Law, National Food Additive Standard.
- International: GHS (Rev.9) Skin/Eye Irritation (Category 2); REACH (EU) registered; TSCA (US) listed on inventory; USP/FCC/EP compliant.

SECTION 16: Other Information

This MSDS is based on current scientific knowledge and complies with GB/T 16483, GB/T 17519, GHS standards. Supplier is not liable for damage caused by improper use/non-compliance with safety precautions. This product is for industrial/formulation use only; food/pharmaceutical grade must be used for human consumption.

纳维盈医化科技
NEWAY SINOPHC TECH