



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 **Product Name:** Artemisinin **CAS-No.:** 63968-64-9 **Product Number:** AR-20260208 **Brand:** SIGALD **Revision Date:** 08 FEB 2026

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

1.1 Product Identifiers

- Synonyms: Qinghaosu; Artemisinine; (3R,5aS,6R,8aS,9R,12S,12aR)-Octahydro-3,6,9-trimethyl-3,12-epoxy-12H-pyrano[4,3-j]-1,2-benzodioxepin-10(3H)-one

1.2 Supplier Details

- 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: Pharmaceutical raw material (anti-malarial); fine chemical intermediate; research reagent; cosmetic additive (anti-oxidant)
- Uses Advised Against: Not for direct oral consumption (unformulated); no unapproved industrial use

SECTION 2: Hazards Identification

2.1 **GHS Classification:** Not a hazardous substance or mixture (GHS 0 category) 2.2 **GHS Label Elements**

- Hazard Pictogram: None
- Signal Word: None
- Hazard Statements: None
- Precautionary Statements: P264, P270, P305+P351+P338 (for eye contact)

2.3 **Physical and Chemical Hazards:** No physical or chemical hazards identified; non-combustible

2.4 **Health Hazards:** No acute/chronic toxic effects; mild eye/skin irritation in sensitive individuals; no mutagenic/carcinogenic effects

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 Component:** Artemisinin (CAS:63968-64-9) | Concentration: ≥98.5% | Classification: Non-hazardous

SECTION 4: First Aid Measures

4.1 First-Aid Measures

- Inhaled: Move to fresh air; rest if discomfort occurs; no special treatment



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- Skin Contact: Rinse skin with running water and mild soap for 5-10 minutes; remove contaminated clothing
 - Eye Contact: Rinse eyes thoroughly with plenty of running water for 10-15 minutes; remove contact lenses; consult a doctor if irritation/redness persists
 - Swallowed: Rinse mouth with water; do not induce vomiting; consult a doctor immediately if large amount is ingested
- 4.2 Symptoms and Effects:** Mild reversible eye/skin irritation in sensitive individuals; no systemic toxic effects
- 4.3 Medical Attention:** No specific antidote; symptomatic treatment for irritation; gastric lavage only if large amount ingested
- 4.4 Notes to Physician:** Inform physician of product composition and ingestion/contact amount

SECTION 5: Firefighting Measures

- 5.1 Extinguishing Media:** Water spray, foam, carbon dioxide (CO₂), dry chemical powder (all suitable)
- 5.2 Special Hazards:** Non-combustible; decomposes at high temperature (>200°C) to non-toxic organic compounds; no hazardous fumes/gases
- 5.3 Firefighter Advice:** Wear standard fire-fighting gear (helmet, fire suit, gloves); no special respiratory protection required

SECTION 6: Accidental Release Measures

- 6.1 Personal Precautions:** Wear dust mask, nitrile gloves and safety glasses for large spills; ensure good ventilation to avoid dust inhalation
- 6.2 Environmental Precautions:** No special measures; biodegradable, no soil/water pollution
- 6.3 Clean Up Methods**
- Small Spill: Sweep up with clean spatula/brush; transfer to sealed container for reuse/recycling
 - Large Spill: Contain with inert material (sand/vermiculite); collect into sealed drum; avoid entering drainage/soil
- 6.4 Reference:** See Section 13 for waste disposal

SECTION 7: Handling and Storage

7.1 Safe Handling

- Operate in well-ventilated fume hood/area; avoid dust generation and inhalation
 - Avoid contact with strong acids, strong oxidizing agents, and high temperature
 - Hygiene: Wash hands thoroughly with soap and water after handling; do not eat/drink/smoke in work area
- 7.2 Safe Storage**

- Storage Conditions: Cool, dry, dark warehouse; sealed airtight container; storage temperature ≤ 20°C; relative humidity ≤50%
- Incompatibilities: Concentrated HCl/H₂SO₄, hydrogen peroxide, potassium permanganate, strong oxidizing agents
- Storage Class (TRGS 510): 13 (Non-Hazardous Solids)
- Shelf Life: 24 months (unopened, under 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; dust collection system for large-scale production/handling



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- Personal Protective Equipment (PPE)
 - Eye/Face Protection: Safety goggles (anti-dust) for all handling operations
 - Skin Protection: Nitrile rubber gloves (thick ≥ 0.1 mm) for prolonged contact; protective clothing for large-scale handling
 - Respiratory Protection: N95 dust mask for dust generation scenarios; no respiratory protection for normal use
 - Hand Protection: Nitrile gloves (preferred) over latex gloves
- Environmental Exposure: No special control measures required

SECTION 9: Physical and Chemical Properties

- Physical State: Crystalline powder
- Color: White to off-white
- Odor: Slightly bitter, characteristic odor
- Melting Point: 150-153°C
- Boiling Point: N/A (decomposes before boiling)
- Flammability: Non-combustible
- Flash Point: N/A
- Autoignition Temperature: > 350°C
- Specific Rotation: +75° to +85° (25°C, CHCl₃, 1%)
- pH Value: N/A (insoluble in water)
- Solubility: Soluble in ethanol, chloroform, acetone; slightly soluble in ether; insoluble in water
- Density (25°C, solid): 1.24 g/cm³
- Particle Size: 100-200 mesh (pharmaceutical grade); customizable
- Explosive Properties: Non-explosive
- Oxidizing Properties: None; weak antioxidant properties

SECTION 10: Stability and Reactivity

10.1 **Chemical Stability:** Stable under recommended storage conditions ($\leq 20^\circ\text{C}$, dry, sealed)

10.2 **Hazardous Reactions:** No hazardous reactions under normal use/handling conditions

10.3 **Conditions to Avoid:** High temperature ($> 80^\circ\text{C}$), high humidity, strong acids, strong oxidizing agents, direct sunlight

10.4 **Incompatible Materials:** Concentrated mineral acids, peroxides, strong oxidizers, heavy metal salts (Fe^{3+} , Cu^{2+})

10.5 **Decomposition Products:** Non-toxic organic compounds (ketones, alcohols); no toxic/gaseous decomposition products

SECTION 11: Toxicological Information

11.1 Toxicological Effects

- Acute Toxicity: Oral (Rat, LD₅₀) > 5000 mg/kg; Dermal (Rabbit, LD₅₀) > 10000 mg/kg; Inhalation (Rat, LC₅₀) > 5 mg/m³ (4h)
- Skin Corrosion/Irritation: Mild reversible irritation (Rabbit, 4h exposure)
- Eye Irritation: Moderate reversible irritation (Rabbit, 24h exposure)
- Sensitization: No skin/respiratory sensitization (human/animal tests)



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- Mutagenicity/Carcinogenicity: No mutagenic effects (Ames test); not classified as carcinogenic by IARC/EPA/NTP
- Reproductive Toxicity: No adverse reproductive effects at therapeutic dosages; no teratogenic effects
- Target Organ Toxicity: No target organ toxicity identified

SECTION 12: Ecological Information

12.1 **Toxicity:** Fish (Zebrafish, LC₅₀) > 500 mg/L (96h); Daphnia (EC₅₀) > 200 mg/L (48h); Algae (EC₅₀) > 500 mg/L (72h)
12.2 **Persistence and Degradability:** Fully biodegradable (BOD₅/COD > 0.6) in aquatic/soil environments
12.3 **Bioaccumulative Potential:** Low bioaccumulation (log Kow = 2.4); no biomagnification in food chain
12.4 **Mobility in Soil:** Low mobility; adsorbs to soil organic matter; no leaching to groundwater
12.5 **PBT/vPvB:** Not classified as PBT/vPvB
12.6 **Other Effects:** Weak antioxidant effect in environment; no adverse ecological impacts

SECTION 13: Disposal Considerations

13.1 **Waste Treatment:** Dispose via licensed pharmaceutical/chemical waste treatment facilities; comply with local/national/international regulations; can be treated by incineration (low NO_x/SO₂ emission) or biological degradation
13.2 **Packaging Waste:** Rinse thoroughly with ethanol; recycle as non-hazardous plastic/metal waste; comply with pharmaceutical packaging waste regulations

SECTION 14: Transport Information

14.1 **UN Number:** ADR/RID/IMDG/IATA: -
14.2 **UN Proper Shipping Name:** Non-dangerous goods (all international transport regulations)
14.3 **Transport Hazard Class:** -
14.4 **Packaging Group:** -
14.5 **Environmental Hazards:** No (non-marine pollutant)
14.6 **Special Precautions:** Transport in cool, dry, sealed containers; avoid direct sunlight, moisture, and high temperature (>25°C); no collision/breakage
14.7 **Incompatible Materials:** Avoid transport with strong acids, oxidizing agents, and heavy metal salts

SECTION 15: Regulatory Information

15.1 National & International Regulations

- China: Chinese Pharmacopoeia (CP) compliant; Hazardous Chemical Safety Management Regulation (Non-hazardous); Pharmaceutical Raw Material Management Regulation
 - International: GHS (Rev.9) Non-hazardous; REACH (EU) - Not in SVHC List; TSCA (US) - Listed on Inventory; USP/EP/BP compliant (pharmaceutical grade)
- 15.2 **Other:** Comply with local pharmaceutical raw material import/export and environmental regulations

SECTION 16: Other Information

- This MSDS is based on current scientific research and complies with GB/T 16483, GB/T 17519, and GHS international standards
- Supplier is not liable for damage caused by improper use, storage or non-compliance with safety precautions



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- Pharmaceutical grade Artemisinin meets CP/USP/EP quality standards; provide custom synthesis for special specifications
- For further technical/quality information, contact the supplier's R&D/technical department



纳维盈医化科技
NEWAY SINOPHC TECH