



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: Salvia Miltiorrhiza Extract **Revision Date: 09 FEB 2026**

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

1.1 Product Identifiers

- Product Name: Salvia Miltiorrhiza Extract
- Product Number: SME-20260209
- Brand: SIGALD
- CAS-No.: 90056-22-1
- Synonyms: Danshen Extract; Red Sage Root Extract; Salvianolic Acid B Extract

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 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against

- Identified Uses: Raw material for health food, pharmaceutical intermediates, cosmetics; dietary supplement additive; functional food ingredient.
- Uses Advised Against: Not for direct pure oral consumption in large quantities; no industrial non-food/non-cosmetic/non-pharmaceutical use.

SECTION 2: Hazards Identification

Summary of Emergency Measures

Light brown fine amorphous powder. Non-hazardous. After inhalation: Move to fresh air if dust discomfort occurs. In case of skin contact: Rinse skin with water; no special treatment needed. After eye contact: Rinse with plenty of water for 5-10 minutes; consult a doctor if irritation persists. After swallowing: Rinse mouth with water; do not induce vomiting; consult a doctor if feeling unwell. Non-combustible. No risk of explosion.

2.1 GHS

Classification

- Not a hazardous substance or mixture (GHS 0 category)
- Hazard Pictogram: None
- Signal Word: None
- Hazard Statements: None

2.2 GHS Label Elements

2.3 Physical and Chemical Hazards

Based on current information: No physical or chemical hazards; non-combustible, no explosive/oxidizing properties.

2.4 Health Hazards

Based on current information: No acute or chronic health hazards; mild eye irritation may occur in sensitive individuals due to dust contact; no allergic reaction in



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normal use.2.5 Environmental HazardsBased on current information: Environmentally friendly; fully biodegradable; no adverse effects on aquatic organisms and soil microorganisms.2.6 Other HazardsNo additional hazards identified.

SECTION 3: Composition/Information on Ingredients

- Substance / Mixture: Mixture (Natural Biological Complex) | 3.1 Main Components | Blend of Natural Salvia Miltiorrhiza Extracts (Salvianolic Acid B, Tanshinone IIA, Danshensu, Flavonoids) | | --- | --- | | Formula | Biological active substances (phenolic acids, diterpenoid quinones, polysaccharides) | | Molecular Weight | Variable (300-8000 Da) | | CAS-No.: | 90056-22-1 (unified for salvia miltiorrhiza extract) | | EC-No.: | N/A |

Hazardous Ingredients: None

Component	Classification	Concentration (w/w)
Salvia Miltiorrhiza Extract (active ingredients)	Non-hazardous	95.0-98.0%
Maltodextrin (anti-caking agent)	Non-hazardous	2.0-3.0%
Deionized Water (trace residual)	Non-hazardous	≤ 5.0%

SECTION 4: First Aid Measures

4.1 Description of First-Aid Measures

- If Inhaled: Move victim to fresh air. No special treatment required if no discomfort; consult a doctor if cough/dust irritation persists.
 - In Case of Skin Contact: Rinse skin with running water for 5 minutes. Remove contaminated clothing; wash clothing before reuse.
 - In Case of Eye Contact: Rinse eyes thoroughly with plenty of running water for 5-10 minutes. Remove contact lenses if present. Consult a doctor if irritation occurs.
 - If Swallowed: Rinse mouth with water. Do not induce vomiting. Consult a doctor if gastrointestinal discomfort occurs (rare in normal use).
- #### 4.2 Most Important Symptoms and Effects, Both Acute and Delayed
- Acute Effects: Mild eye redness/irritation in sensitive individuals due to dust splashing; no other acute toxic effects.
 - Delayed Effects: No known delayed toxic effects based on current data.
- #### 4.3 Indication of Any Immediate Medical Attention and Special Treatment Needed
- No specific medical treatment required; treat symptomatically if needed.
- #### 4.4 Notes to Physician
- Inform the physician of the product composition if medical consultation is required.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

- Suitable Extinguishing Media: Water spray, foam, carbon dioxide (CO₂), dry powder.
 - Unsuitable Extinguishing Media: No limitations of extinguishing agents.
- #### 5.2 Special Hazards Arising from the Substance or Mixture
- Non-combustible; no hazardous combustion gases generated during combustion; only small amounts of carbon dioxide and water vapor produced.
- #### 5.3 Advice for Firefighters



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- No special protective equipment required; wear standard fire-fighting gear and dust mask if large amounts of dust are generated during fire.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions, Protective Equipment and Emergency Procedures

- Wear disposable nitrile gloves and dust mask if large amounts of dust are generated; ensure good ventilation.
 - Evacuate non-essential personnel if large spills occur to avoid dust inhalation.
- ### 6.2 Environmental Precautions
- No special environmental precautions; the product is biodegradable and non-polluting; can be directly mixed with soil for natural degradation.
- ### 6.3 Methods and Materials for Containment and Cleaning Up
- Small Spill: Sweep up with a clean brush and place in a sealed plastic container for reuse or disposal.
 - Large Spill: Contain with inert materials; transfer to sealed HDPE drums for recycling or disposal.
- ### 6.4 Reference to Other Sections
- For disposal, see Section 13.

SECTION 7: Handling and Storage

7.1 Precautions for Safe Handling

- Operate in a well-ventilated area; use dust-free handling equipment to avoid dust generation.
 - Avoid contact with strong acids, strong bases, high-temperature environments ($\geq 60^{\circ}\text{C}$) and direct sunlight to prevent active ingredient degradation.
 - Hygiene Measures: Wash hands after handling; no restrictions on eating/drinking in workplace (if hygiene is maintained).
- ### 7.2 Conditions for Safe Storage, Including Any Incompatibilities
- Storage Conditions: Store in a cool, dark, dry and well-ventilated warehouse. Keep container tightly closed. Avoid direct sunlight and high temperatures (storage temperature $\leq 25^{\circ}\text{C}$). Relative humidity $\leq 60\%$.
 - Incompatibilities: Strong acids, strong bases, oxidizing agents, high-concentration organic solvents.
 - Storage Class (TRGS 510): 10 (Non-Hazardous Solids)
 - Shelf Life: 24 months (unopened, under specified storage conditions).

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Component	CAS-No.	Value	Control Parameters	Basis
Salvia Miltiorrhiza Extract	90056-22-1	No occupational exposure limits	-	No relevant national/international exposure standards
8.2 Exposure Controls				

- Engineering Controls: No special engineering controls required; ensure basic ventilation and dust removal facilities for large-scale handling.

- Personal Protective Equipment (PPE):
 - Eye/Face Protection: Safety glasses recommended for large-scale handling to avoid dust splashing into eyes.
 - Skin Protection: Nitrile rubber gloves recommended for prolonged contact.
 - Respiratory Protection: N95 dust mask for dust-generating operations; not required for normal handling.
- Control of Environmental Exposure: No special environmental exposure controls.

SECTION 9: Physical and Chemical Properties

9.1 Information on Basic Physical and Chemical Properties
a) Physical State: Solid (fine amorphous powder)
b) Color: Light brown to dark brown
c) Odor: Mild natural salvia miltiorrhiza characteristic fragrances
d) Melting Point/Freezing Point: Not applicable (biological mixture)
e) Initial Boiling Point and Boiling Range: Not applicable (solid)
f) Flammability (Liquid/Gas): Non-flammable (solid powder)
g) Upper/Lower Flammability or Explosive Limits: Not applicable
h) Flash Point: Not applicable
i) Autoignition Temperature: > 400°C
j) Decomposition Temperature: ≥ 60°C (active ingredient inactivation, no hazardous decomposition)
k) pH Value (25°C): 5.0-7.0 (1% aqueous solution)
l) Viscosity (25°C): Not applicable (solid)
m) Water Solubility: Slightly soluble in water; freely soluble in ethanol (70%)
n) Partition Coefficient (n-octanol/water): No data available
o) Vapor Pressure (25°C): < 0.001 hPa
p) Density (25°C): 0.82-0.92 g/cm³ (bulk density)
q) Relative Vapor Density: No data available
r) Particle Characteristics: 95% passing 80 meshes
s) Explosive Properties: Not explosive
t) Oxidizing Properties: None
9.2 Other Safety Information
No additional safety-related physical/chemical data.

SECTION 10: Stability and Reactivity

10.1 Chemical Stability: Stable under recommended storage conditions (≤ 25°C, dry, sealed).
10.2 Possibility of Hazardous Reactions: No hazardous reactions under normal use and handling conditions.
10.3 Conditions to Avoid: High temperature (> 25°C), direct sunlight, high humidity, contact with strong acids/alkalis/oxidizing agents.
10.4 Incompatible Materials: Concentrated hydrochloric acid, sulfuric acid, sodium hydroxide, potassium permanganate, hydrogen peroxide.
10.5 Hazardous Decomposition Products: No hazardous decomposition products; active ingredients inactivate at high temperature without toxic substances produced.

SECTION 11: Toxicological Information

11.1 Information on Toxicological Effects

- Acute Toxicity:
 - Oral (Rat, LD₅₀): > 10,000 mg/kg
 - Dermal (Rabbit, LD₅₀): > 10,000 mg/kg
 - Inhalation (Rat, LC₅₀): > 20 mg/m³ (4-hour exposure)
- Skin Corrosion/Irritation: No irritation (Rabbit, 4-hour exposure).



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- Serious Eye Damage/Eye Irritation: Mild irritation (Rabbit, 24-hour exposure; reversible with water rinsing).
 - Respiratory or Skin Sensitization: No sensitizing effects in normal use (human skin test negative).
 - Germ Cell Mutagenicity: No data available; no mutagenic effects found in preliminary tests.
 - Carcinogenicity: Not classified as carcinogenic by IARC, EPA, or NTP.
 - Reproductive Toxicity: No adverse reproductive effects found in animal tests.
 - Specific Target Organ Toxicity (Single/Repeated Exposure): No target organ toxicity in normal occupational exposure.
 - Aspiration Hazard: Low (solid powder, low dust mobility).
- 11.2 Additional Information
The toxicological properties have been sufficiently studied for safe use in food, cosmetics and pharmaceutical fields.

SECTION 12: Ecological Information

12.1 Toxicity:

- Fish (Zebrafish, LC₅₀): > 5000 mg/L (96-hour exposure)
 - Daphnia (EC₅₀): > 2000 mg/L (48-hour exposure)
 - Algae (EC₅₀): > 5000 mg/L (72-hour exposure)
- 12.2 Persistence and Degradability: Fully biodegradable (BOD₅ /COD > 0.7) in aquatic and soil environments; degraded by microorganisms within 14 days.
- 12.3 Bioaccumulative Potential: No bioaccumulation potential in aquatic organisms and soil animals.
- 12.4 Mobility in Soil: Low mobility; binds to soil organic matter and can improve soil fertility.
- 12.5 Results of PBT and vPvB Assessment: Not classified as PBT/vPvB.
- 12.6 Endocrine Disrupting Properties: No data available; no endocrine-disrupting effects found in preliminary tests.
- 12.7 Other Adverse Effects: No known adverse ecological impacts; can be used as a natural additive for soil improvement.

SECTION 13: Disposal Considerations

13.1 Waste Treatment Methods

- Product Waste: Reuse if not contaminated; if unfit for use, dispose of through licensed waste treatment facilities or mix with soil for natural biodegradation.
- Packaging Waste: Rinse packaging thoroughly with water and ethanol; dispose of as non-hazardous waste or recycle.
- Do not dispose of the product into municipal sewage or natural water bodies in large quantities (no pollution risk, only to avoid blockage).

SECTION 14: Transport Information

- 14.1 UN Number: ADR/RID: -; IMDG: -; IATA-DGR: -
- 14.2 UN Proper Shipping Name: ADR/RID: Not dangerous goods; IMDG: Not dangerous goods; IATA-DGR: Not dangerous goods
- 14.3 Transport Hazard Class(es): ADR/RID: -; IMDG: -; IATA-DGR: -
- 14.4 Packaging Group: ADR/RID: -; IMDG: -; IATA-DGR: -
- 14.5 Environmental Hazards: ADR/RID: No; IMDG Marine Pollutant: No; IATA-DGR: No
- 14.6 Special Precautions for User: Transport at ≤ 25°C; use closed dry transport vehicles; avoid direct sunlight, high temperature, rain and collision during transport.
- 14.7 Incompatible



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Materials: Avoid transport with strong acids, strong bases, oxidizing agents and high-concentration organic solvents.

Further Information: Not classified as dangerous under transport regulations.

SECTION 15: Regulatory Information

15.1 Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture

- National Regulations (China):
 - Hazardous Chemical Safety Management Regulation (Non-hazardous classification)
 - Food Safety Law of the People's Republic of China
 - Cosmetic Supervision and Administration Regulation
 - International Regulations:
 - GHS Classification (Rev. 9): Non-hazardous
 - REACH (EU): Not listed in SVHC Candidate List; compliant with EU food supplement regulations
 - TSCA (US): Listed on the TSCA Inventory; compliant with FDA GRAS standards
- 15.2 Other Regulations
Comply with local food, cosmetic and pharmaceutical raw material import/export regulations; provide COA and MSDS for customs clearance.

SECTION 16: Other Information

- Further Information: This MSDS is based on current scientific knowledge and complies with GB/T 16483, GB/T 17519, and GHS standards. It is intended for safe handling, storage, transport, and disposal. The supplier is not liable for damage caused by improper use or non-compliance with safety precautions.
- Revision Date: 09 FEB 2026

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