



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: 28 FEB 2026

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

1.1 Product Identifiers

- Product Name: European Bilberry Extract (EBE)
- Product Number: EBE-20260228
- Brand: SIGALD
- CAS Number:84082-34-8
- Botanical Source: *Vaccinium myrtillus* L. Fruit
- Active Component: Anthocyanosides $\geq 25\%$
- Synonyms: Bilberry Fruit Extract; *Vaccinium myrtillus* Extract

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

- Emergency Phone #: +86-021-50350029 (CHEMTREC)

1.4 Identified Uses & Uses Advised Against

- Identified Uses: Natural anthocyanin raw material for health care products, food additives, cosmetics, dietary supplements; eye health and antioxidant ingredient.
- Uses Advised Against: Direct bulk human consumption; use in infant food without specialized formulation; long-term use in high dosage without professional guidance.

SECTION 2: Hazards Identification

Summary of Emergency Measures

Purple red to dark red powder. May cause mild eye/skin irritation in sensitive individuals; slight respiratory irritation if inhaled in large amounts; no acute toxicity in normal dosage. Inhalation: Move to fresh air, rest. Skin contact: Rinse with water for 5 mins. Eye contact: Rinse with plenty of water for 5-10 mins; consult a doctor if irritation persists. Swallowing: Rinse mouth with water, no induced vomiting needed. Non-combustible; no explosion risk.

2.1 GHS Classification

- Eye irritation (Category 2A); Skin irritation (Category 2A); Specific target organ toxicity (single exposure), respiratory system (Category 3, mild)

2.2 GHS Label Elements

- Hazard Pictograms: (Exclamation mark)
- Signal Word: **Warning**
- Hazard Statements:
 - H315: Causes skin irritation



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- H319: Causes serious eye irritation
- H335: May cause respiratory irritation
- Precautionary Statements:
- P261: Avoid breathing dust
- P264: Wash hands thoroughly after handling
- P280: Wear protective gloves/eye/face protection
- P302+P352: If on skin: Wash with plenty of water/soap
- P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
- P337+P313: If eye irritation persists: Get medical advice/attention
- P332+P313: If skin irritation occurs: Get medical advice/attention

2.3 Physical and Chemical Hazards Non-combustible; no explosive/oxidizing properties; no hazardous decomposition under normal use; natural antioxidant property (anthocyanosides). 2.4 Health Hazards

- Acute: Mild eye/skin irritation (sensitive individuals only); slight respiratory irritation (high dust concentration); no oral toxicity in normal dosage.
- Chronic: No known chronic toxic effects at occupational/normal use levels; no sensitization, mutagenicity or carcinogenicity. 2.5 Environmental Hazards Fully biodegradable; low toxicity to aquatic organisms; no bioaccumulation potential; no long-term environmental harm. 2.6 Other Hazards No additional hazards identified.

SECTION 3: Composition/Information on Ingredients

- Mixture: Natural plant extract (100% European Bilberry Extract, CAS:84082-34-8) | Active Component | Content (w/w) | CAS No. | Hazard Classification | |---|---|---|---
| | Anthocyanosides | ≥25% | 84082-34-8 | Non-hazardous (antioxidant) | | | Fruit Polysaccharides/Organic Acids | 75% | - | Non-hazardous |

SECTION 4: First Aid Measures

4.1 First-Aid Measures

- Inhaled: Move victim to fresh air and rest. No special treatment if no discomfort; consult a doctor if cough/chest tightness persists.
- Skin Contact: Remove contaminated clothing, rinse skin with running water/soap for 5 minutes. Wash clothing before reuse; apply mild moisturizer if irritation occurs.
- Eye Contact: Rinse eyes thoroughly with plenty of running water for 5-10 minutes (hold eyelids open). Remove contact lenses if present. Consult a doctor if irritation/redness lasts over 24 hours.
- Swallowed: Rinse mouth with water; drink a small amount of water if needed. Do not induce vomiting; no medical attention needed for normal dosage ingestion.

4.2 Most Important Symptoms Acute: Mild skin redness/itching, eye redness/tearing (sensitive individuals); slight cough (high dust); no other systemic symptoms. 4.3 Medical

Attention Symptomatic treatment only if irritation persists; no specific antidote required; supportive care is sufficient.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media: Water spray, foam, carbon dioxide (CO₂), dry powder (all suitable) 5.2 Special Hazards from Combustion: Non-combustible; no hazardous combustion gases/fumes; thermal decomposition releases non-toxic CO₂, water and plant residues (minor purple pigment discoloration). 5.3 Firefighter Advice: Wear standard fire-fighting gear and a dust mask; keep containers cool with water spray if exposed to fire; avoid contact with combustion dust (minor irritation).

SECTION 6: Accidental Release Measures

6.1 Personal Precautions: Wear full basic PPE (nitrile gloves, safety goggles, dust mask, lab coat); ensure good ventilation; evacuate non-essential personnel from spill area. 6.2

Environmental Precautions: No special measures; fully biodegradable; prevent large spills from entering water bodies (dilute with water if needed). 6.3 Containment & Clean-Up

- Small Spill: Sweep up with a clean brush, transfer to a sealed HDPE container for normal use/disposal; wipe area with damp cloth (avoids dust).
- Large Spill: Contain with plastic dikes, transfer to sealed drums with a clean shovel; clean the area with water (wash water is biodegradable). 6.4 Reference: See Section 13 for waste disposal guidelines.

SECTION 7: Handling and Storage

7.1 Safe Handling

- Operate in a well-ventilated workshop; use low-dust handling procedures; avoid dust inhalation and direct skin/eye contact.
- Hygiene Measures: Wash hands/face thoroughly after handling; no eating/drinking/smoking in the work area.

7.2 Safe Storage

- Storage Conditions: Cool, dry, dark well-ventilated warehouse ($\leq 25^{\circ}\text{C}$); keep container tightly sealed; avoid direct sunlight and high humidity (>70%); separate from strong oxidizing agents/alkalis.
- Incompatibilities: Strong oxidizing agents (hydrogen peroxide, potassium permanganate), concentrated alkalis (sodium hydroxide).
- Storage Class (TRGS 510): 13 (Non-Hazardous Solids)
- Shelf Life: 24 months (unopened, specified conditions); 6 months after opening (resealed, dry, dark).
- Segregation: Store separately from oxidizing agents/alkalis; may be stored with other natural plant extracts, food/cosmetic raw materials (avoid light exposure).

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters: Occupational Exposure Limit (OEL) – TWA 5 mg/m³ (respirable dust) (EU/China proposed)8.2 Exposure Controls

- Engineering Controls: Basic local exhaust ventilation (LEV) with dust collection; low-dust handling equipment for large-scale processing.
- Personal Protective Equipment (PPE):
 - Eye/Face: Safety goggles + face shield (mandatory for large-scale processing; recommended for routine handling)
 - Skin: Nitrile gloves (≥0.11 mm) + ordinary lab coat (routine handling)
 - Respiratory: Disposable dust mask (high-dust environments; no need for normal low-dust handling)
 - Hand: Avoid bare hand contact for prolonged handling (sensitive skin).

SECTION 9: Physical and Chemical Properties

- Physical State: Purple red to dark red fine powder | Odor: Faint characteristic bilberry fruit odor
- Melting Point: Not applicable (plant extract mixture) | Boiling Point: Not applicable
- Flammability: Non-combustible | Flash Point: Not applicable
- Autoignition Temperature: >450°C | Decomposition Temperature: ≥200°C
- pH Value: 3.0-5.0 (1% aq. solution, 25°C) | Water Solubility: Soluble (15 g/100 mL, 25°C)
- Ethanol Solubility: Freely soluble (30 g/100 mL, 25°C) | Bulk Density: 0.35-0.55 g/cm³
- Vapor Pressure (25°C): <0.0001 hPa | Particle Size: 95% passing 80 mesh
- Explosive Properties: None | Oxidizing Properties: None (natural antioxidant)
- Hygroscopy: Slight | Taste: Faint sour-sweet (characteristic of bilberry fruit)
- Pigment Stability: Fades slightly under direct sunlight (no activity loss)

SECTION 10: Stability and Reactivity

10.1 Chemical Stability: Stable under recommended storage conditions; slight hygroscopy with no active component degradation; anthocyanosides stable in dark/cool conditions (fades in sunlight, no activity loss).

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

10.3 Conditions to Avoid: High temperature (>70°C), direct sunlight, high humidity (>70%), contact with strong oxidizing agents/concentrated alkalis.

10.4 Incompatible Materials: 30%+ hydrogen peroxide, concentrated sodium hydroxide, potassium permanganate.

10.5 Hazardous Decomposition Products: No hazardous products; thermal decomposition releases non-toxic CO₂, water and plant residues.

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) >20 mg/m³ (4h)
- Skin Irritation: Category 2A (mild redness, reversible in 48h; sensitive individuals only)
- Eye Irritation: Category 2A (mild redness, reversible in 48h; sensitive individuals only)
- Respiratory Irritation: Mild irritation only at high dust concentration



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- Mutagenicity: Negative (Ames test, chromosome aberration test)
- Carcinogenicity: IARC Class 3 (not classifiable as carcinogenic to humans)
- Reproductive Toxicity: No reproductive harm at any exposure level (animal studies)
- Sensitization: No skin/respiratory sensitization (Guinea pig test)

SECTION 12: Ecological Information

12.1 Toxicity: Zebrafish (LC₅₀) >1000 mg/L (96h); Daphnia (EC₅₀) >1000 mg/L (48h); Algae (EC₅₀) >800 mg/L (72h)
12.2 Persistence & Degradability: Fully biodegradable (BOD₅/COD = 0.80-0.90); degrades completely within 15 days in aquatic environments.
12.3 Bioaccumulative Potential: No bioaccumulation potential (Log P = 1.1); no accumulation in aquatic/terrestrial organisms.
12.4 Mobility in Soil: Moderate mobility; biodegrades rapidly in soil, no leaching to groundwater.
12.5 PBT/vPvB: Not classified as PBT/vPvB; meets all environmental safety standards.
12.6 Other Adverse Effects: No adverse ecological effects at normal use concentrations; biodegradation products are non-toxic.

SECTION 13: Disposal Considerations

13.1 Waste Treatment

- Product Waste: Non-hazardous organic waste; incinerate, compost or dilute with water for sewage treatment (fully biodegradable); no hazardous waste treatment required.
 - Packaging Waste: Rinse with water; dispose as non-hazardous plastic waste or recycle; avoid light exposure for unused packaging.
- 13.2 Disposal Regulations: Comply with China general solid waste/food waste regulations; dispose with municipal solid waste with no restrictions.

SECTION 14: Transport Information

14.1 UN Number: N/A (Non-hazardous goods)
14.2 UN Proper Shipping Name: Non-hazardous natural plant extract (European Bilberry Extract, CAS:84082-34-8)
14.3 Transport Hazard Class: N/A | Packaging Group: N/A
14.4 Environmental Hazards: Marine Pollutant (No)
14.5 Special Transport Precautions: Transport at ≤25°C; use sealed light-proof HDPE/fiber drums; avoid direct sunlight/high humidity; ordinary freight transport (no special restrictions); do not mix with strong oxidizing agents/alkalis.

SECTION 15: Regulatory Information

15.1 National & International Regulations

- China: NFDA approved natural plant extract; complies with GB 1886.213 (food additive) and CP 2020; approved for cosmetic/pharmaceutical use.
 - EU: REACH Registered (CAS:84082-34-8); EFSA approved food supplement; CosIng compliant (cosmetic ingredient); non-hazardous CLP classification.
 - US: GRAS (Generally Recognized As Safe); TSCA Listed (CAS:84082-34-8); USP 45 compliant for dietary supplements.
- 15.2 Other: Comply with local food, cosmetic, health care product manufacturing and GMP regulations.

SECTION 16: Other Information



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- This MSDS complies with GB/T 16483, GB/T 17519 and GHS Rev.9; based on current scientific/regulatory knowledge of natural plant extracts (CAS:84082-34-8).
- Supplier is not liable for damage caused by improper handling, storage, use or non-compliance with safety precautions.
- For additional technical/regulatory information, contact the supplier's natural extract technical department.

