



# 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: Grape Seed Extract (GSE)
- Product Number: GSE-20260228
- Brand: SIGALD
- Botanical Source: *Vitis vinifera* L. Seed
- Active Component: Proanthocyanidins (OPC) ≥95%
- Synonyms: Grape Seed Proanthocyanidin Extract; OPC 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 antioxidant raw material for health care products, food additives, cosmetics, dietary supplements; anti-aging and vascular health ingredient.
- Uses Advised Against: Direct bulk human consumption; use in infant food without specialized formulation; unauthorized injection use.

### SECTION 2: Hazards Identification

**Pale yellow to light brown powder. May cause mild eye irritation if direct contact; no skin/respiratory irritation; no acute toxicity in normal dosage.**

#### Summary of Emergency Measures

**Inhalation: Move to fresh air, rest. Skin contact: Rinse with water for 3 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)
- 2.2 GHS Label Elements
- Hazard Pictograms: (Exclamation mark)
- Signal Word: **Warning**
- Hazard Statements: H319: Causes serious eye irritation
- Precautionary Statements:
  - P264: Wash hands thoroughly after handling
  - P280: Wear protective eye/face protection



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- 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

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

- Acute: Mild eye irritation only with direct contact; no skin/respiratory irritation; 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; non-toxic to aquatic/terrestrial 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% Grape Seed Extract) | Active Component | Content (w/w) | CAS No. | Hazard Classification | | --- | --- | --- | --- | | Proanthocyanidins (OPC) | ≥95% | 4852-22-6 | Non-hazardous (strong antioxidant) | | Polyphenols/Organic Acids | 5% | - | Non-hazardous |

## SECTION 4: First Aid Measures

### 4.1 First-Aid Measures

- Inhaled: No irritation under normal use; no special treatment if accidental inhalation.
- Skin Contact: Remove contaminated clothing, rinse skin with running water for 3 minutes; no further treatment needed.
- 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 only 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 eye redness/tearing (reversible in 24h); no other systemic symptoms. 4.3 Medical Attention Symptomatic treatment only if eye irritation persists; no specific antidote required; supportive care is sufficient.

## SECTION 5: Firefighting Measures

5.1 Extinguishing Media: Water spray, foam, carbon dioxide (CO<sub>2</sub>), dry powder (all suitable) 5.2 Special Hazards from Combustion: Non-combustible; no hazardous combustion gases/fumes; thermal decomposition releases non-toxic CO<sub>2</sub>, water and plant residues. 5.3 Firefighter Advice: Wear standard fire-fighting gear; no special respiratory protection needed; keep containers cool with water spray if exposed to fire.

## SECTION 6: Accidental Release Measures

6.1 Personal Precautions: Wear basic PPE (nitrile gloves, safety goggles, lab coat); basic ventilation is sufficient; no specialized protective equipment needed.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.
- Large Spill: Contain with plastic dikes, transfer to sealed drums; 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; ordinary handling procedures sufficient; avoid direct eye contact.
- Hygiene Measures: Wash hands after handling; basic workplace hygiene is adequate.

### 7.2 Safe Storage

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

## SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters: Occupational Exposure Limit (OEL) – TWA  $10\text{ mg/m}^3$  (respirable dust) (EU/China proposed)8.2 Exposure Controls

- Engineering Controls: Basic ventilation sufficient; no special exhaust ventilation required for normal handling.
- Personal Protective Equipment (PPE):
  - Eye/Face: Safety goggles (recommended for handling; mandatory for large-scale processing)
  - Skin: Nitrile gloves (prolonged contact); ordinary lab coat (routine handling)
  - Respiratory: No respiratory protection required (any concentration)
  - Hand: Bare hand contact acceptable for short-term routine handling.

## SECTION 9: Physical and Chemical Properties

- Physical State: Pale yellow to light brown fine powder | Odor: Faint characteristic grape seed herbal odor
- Melting Point: Not applicable (plant extract mixture) | Boiling Point: Not applicable
- Flammability: Non-combustible | Flash Point: Not applicable
- Autoignition Temperature:  $>500^{\circ}\text{C}$  | Decomposition Temperature:  $\geq 220^{\circ}\text{C}$



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- pH Value: 3.5-5.5 (1% aq. solution, 25°C) | Water Solubility: Freely soluble (40 g/100 mL, 25°C)
- Ethanol Solubility: Soluble (25 g/100 mL, 25°C) | Bulk Density: 0.40-0.60 g/cm<sup>3</sup>
- Vapor Pressure (25°C): <0.0001 hPa | Particle Size: 95% passing 100 mesh
- Explosive Properties: None | Oxidizing Properties: None (strong antioxidant)
- Hygroscopy: Slight | Taste: Faint astringent (characteristic of OPC)

### SECTION 10: Stability and Reactivity

10.1 Chemical Stability: Highly stable under recommended storage conditions; slight hygroscopy with no active component degradation; strong antioxidant property (resists self-oxidation). 10.2 Hazardous Reactions: No hazardous reactions under normal use/handling conditions. 10.3 Conditions to Avoid: High temperature (>80°C), direct sunlight, high humidity (>70%), contact with strong oxidizing agents/concentrated acids. 10.4 Incompatible Materials: 30%+ hydrogen peroxide, concentrated sulfuric acid, potassium permanganate. 10.5 Hazardous Decomposition Products: No hazardous products; thermal decomposition releases non-toxic CO<sub>2</sub>, water and plant residues.

### SECTION 11: Toxicological Information

#### 11.1 Toxicological Effects

- Acute Toxicity: Oral (Rat, LD<sub>50</sub>) >10000 mg/kg; Dermal (Rabbit, LD<sub>50</sub>) >20000 mg/kg; Inhalation (Rat, LC<sub>50</sub>) >50 mg/m<sup>3</sup> (4h)
- Skin Irritation: No irritation (Rabbit, 24h exposure)
- Eye Irritation: Category 2A (mild redness, reversible in 24h; Rabbit, 24h exposure)
- Respiratory Irritation: No irritation at any concentration
- 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/human studies)
- Sensitization: No skin/respiratory sensitization (Guinea pig test)

### SECTION 12: Ecological Information

12.1 Toxicity: Zebrafish (LC<sub>50</sub>) >2000 mg/L (96h); Daphnia (EC<sub>50</sub>) >2000 mg/L (48h); Algae (EC<sub>50</sub>) >2000 mg/L (72h) 12.2 Persistence & Degradability: Fully biodegradable (BOD<sub>5</sub>/COD = 0.85-0.95); degrades completely within 10 days in aquatic environments. 12.3 Bioaccumulative Potential: No bioaccumulation potential (Log P = 0.9); no accumulation in aquatic/terrestrial organisms. 12.4 Mobility in Soil: High mobility; biodegrades rapidly in soil, no leaching to groundwater (biodegradation faster than mobility). 12.5 PBT/vPvB: Not classified as PBT/vPvB; meets strictest environmental safety standards. 12.6 Other Adverse Effects: No adverse ecological effects at any concentration; biodegradation products nourish soil microorganisms.

### SECTION 13: Disposal Considerations

#### 13.1 Waste Treatment



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- 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; packaging reusable for natural raw materials.
- 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 (Grape Seed Extract) 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  $\leq 25^{\circ}\text{C}$ ; use sealed HDPE/fiber drums; avoid direct sunlight/high humidity; ordinary freight transport (no special restrictions); do not mix with strong oxidizing agents/acids.

### 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; EFSA approved food supplement; CosIng compliant (cosmetic ingredient); non-hazardous CLP classification.
  - US: GRAS (Generally Recognized As Safe); TSCA Listed; 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

- This MSDS complies with GB/T 16483, GB/T 17519 and GHS Rev.9; based on current scientific/regulatory knowledge of natural plant extracts.
- 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.