



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)

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

1.1 Product Identifiers

- Product Name: Pomegranate Peel Extract
- Product Number: PPE-20260205
- Brand: SIGALD
- CAS-No.: N/A (Main active: Ellagic Acid 476-66-4)
- Synonyms: Pomegranate Extract; Punica Granatum Extract; Ellagic Acid 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 and Uses Advised Against

- Identified Uses: Health care product raw material; food additive (antioxidant); cosmetic ingredient (whitening/anti-aging); natural plant extract additive.
- Uses Advised Against: Not for direct oral consumption in bulk; not for medical injection; no use in infant food without special approval.

SECTION 2: Hazards Identification

| Summary of Emergency Measures | Reddish brown fine powder. Mild eye irritation if direct contact; no skin/respiratory irritation in normal use; no acute toxicity if accidentally ingested in small amount. After inhalation: Move to fresh air if discomfort occurs. In case of skin contact: Rinse with water for 5 minutes. 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. Non-combustible. No explosion risk. | |---|

2.1 GHS Classification

- Eye irritation (Category 2A)

2.2 GHS Label Elements

- Hazard Pictogram: (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
 - P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing



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- P337+P313: If eye irritation persists: Get medical advice/attention
- 2.3 Physical and Chemical HazardsNon-combustible; no explosive/oxidizing properties; no hazardous physical/chemical hazards under normal use.
- 2.4 Health HazardsMild eye irritation only; no acute/chronic skin/respiratory toxicity; no mutagenicity/carcinogenicity; no target organ toxicity in normal use.
- 2.5 Environmental HazardsEnvironmentally friendly; fully biodegradable; low toxicity to aquatic organisms; no bioaccumulation potential; no adverse environmental effects.
- 2.6 Other HazardsNo additional hazards identified.

SECTION 3: Composition/Information on Ingredients

- Substance / Mixture: Natural plant extract (complex mixture) | 3.1 Main Components | Punica granatum L. Peel Extract (Ellagic Acid $\geq 40\%$) | |---|---| | Formula | C₁₄H₆O₈ (Ellagic acid, main active) | | Molecular Weight | 302.20 Da (main active component) | | CAS-No.: | 476-66-4 (Ellagic acid) | | EC-No.: | N/A |

Hazardous Ingredients

Component	Classification	Concentration (w/w)
Pomegranate Peel Extract (Ellagic Acid)	Non-hazardous (Eye Irrit. 2A)	40.0-45.0%
Natural Plant Polyphenols/Tannins	Non-hazardous	55.0-60.0%

SECTION 4: First Aid Measures

4.1 First-Aid Measures

- Inhaled: Move to fresh air; no special treatment if no discomfort; consult a doctor if cough persists.
- Skin Contact: Rinse with running water for 5 minutes; remove contaminated clothing and wash before reuse.
- Eye Contact: Rinse thoroughly with running water for 5-10 minutes; consult a doctor if redness/irritation lasts over 24h.
- Swallowed: Rinse mouth with water; do not induce vomiting; consult a doctor only if gastrointestinal discomfort occurs.

4.2 Most Important Symptoms

- Acute Effects: Mild eye redness/tearing (reversible within 24h); no other acute symptoms.
- Delayed Effects: No known delayed toxic effects.

4.3 Immediate Medical AttentionNo specific medical treatment required; treat symptomatically if irritation persists.

4.4 Notes to PhysicianInform the physician of the product composition (pomegranate peel extract/ellagic acid) if consultation is needed.

SECTION 5: Firefighting Measures

5.1 Extinguishing Media

- Suitable: Water spray, foam, CO₂, dry powder.
- Unsuitable: No limitations of extinguishing agents.



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5.2 Special Hazards Non-combustible; no hazardous combustion gases; thermal decomposition releases only non-toxic CO₂ and water.

5.3 Advice for Firefighters Wear standard fire-fighting gear; dust mask recommended to avoid inhalation of combustion powder.

SECTION 6: Accidental Release Measures

6.1 Personal Precautions Wear basic PPE (nitrile gloves, safety goggles, dust mask); ensure good ventilation in spill area.

6.2 Environmental Precautions No special precautions; biodegradable; prevent large spills from entering water bodies (dilute with water if needed).

6.3 Cleaning Up

- Small Spill: Sweep up with a dry brush; transfer to sealed HDPE container for reuse/disposal.
- Large Spill: Contain with plastic dikes; transfer to sealed drums; clean spill area with damp cloth to avoid dust.

6.4 Reference For disposal, see Section 13.

SECTION 7: Handling and Storage

7.1 Safe Handling

- Operate in well-ventilated area; use low-dust equipment to avoid powder dispersion.
- Avoid contact with strong oxidizers, high temperature ($\geq 60^{\circ}\text{C}$) to prevent active ingredient degradation.
- Hygiene: Wash hands after handling; no eating/drinking/smoking in work area.

7.2 Safe Storage

- Storage Conditions: Cool, dry, dark warehouse ($\leq 25^{\circ}\text{C}$); humidity $\leq 70\%$; keep container tightly closed.
- Incompatibilities: Strong oxidizing agents, concentrated acids.
- Storage Class (TRGS 510): 13 (Non-Hazardous Solids)
- Shelf Life: 24 months (unopened, specified conditions).

SECTION 8: Exposure Controls/Personal Protection

8.1 Control Parameters

Component	CAS-No.	Value	Control Parameters	Basis
Pomegranate Peel Extract	476-66-4	5 mg/m ³	TWA (Respirable dust)	EU/China proposed exposure limits

8.2 Exposure Controls

- Engineering Controls: Basic local exhaust ventilation for large-scale processing; good general ventilation.
- PPE:
 - Eye/Face: Safety goggles (mandatory); face shield for large-scale processing.
 - Skin: Nitrile rubber gloves; lab coat.
 - Respiratory: Disposable dust mask for high-dust environments.

SECTION 9: Physical and Chemical Properties

9.1 Basic Properties a) Physical State: Fine powder b) Color: Reddish brown to dark brown c) Odor: Faint natural pomegranate peel scent d) Melting Point/Freezing Point: N/A (mixture) e) Flammability: Non-combustible f) Flash Point: Not applicable g) Decomposition Temperature: $\geq 60^{\circ}\text{C}$ (active ingredient inactivation) h) pH Value: 4.0-6.0 (1% aq. suspension) i) Water Solubility: Slightly soluble in water; soluble in ethanol/acetone j) Bulk Density: 0.50-0.70 g/cm³ k) Particle Size: 95% passing 80 mesh l) Explosive Properties: Not explosive m) Oxidizing Properties: None

SECTION 10: Stability and Reactivity

10.1 Chemical Stability: Stable under recommended storage conditions; slight hygroscopy but no degradation. 10.2 Hazardous Reactions: No hazardous reactions under normal use. 10.3 Conditions to Avoid: High temp ($>60^{\circ}\text{C}$), direct sunlight, high humidity, strong oxidizers/concentrated acids. 10.4 Incompatible Materials: Hydrogen peroxide ($\geq 30\%$), concentrated sulfuric acid, potassium permanganate. 10.5 Decomposition Products: No hazardous products; only CO₂, water and plant residue.

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.
- Skin Irritation: No irritation (Rabbit, 24h exposure).
- Eye Irritation: Category 2A (mild, reversible within 24h).
- Sensitization: No skin/respiratory sensitization (Guinea pig test).
- Mutagenicity: Negative (Ames test).
- Carcinogenicity: Not classified by IARC/EPA/NTP.
- Reproductive Toxicity: No reproductive harm at normal exposure.

SECTION 12: Ecological Information

12.1 Toxicity: Zebrafish LC₅₀ >1000 mg/L (96h); Daphnia EC₅₀ >1000 mg/L (48h); Algae EC₅₀ >1000 mg/L (72h). 12.2 Persistence: Fully biodegradable (BOD₅/COD >0.7); degrades completely within 15 days. 12.3 Bioaccumulation: No potential (Log P ≈ 2.5 , rapid biodegradation). 12.4 Soil Mobility: Moderate; binds to soil organic matter and biodegrades rapidly. 12.5 PBT/vPvB: Not classified as PBT/vPvB.

SECTION 13: Disposal Considerations

13.1 Waste Treatment

- Product Waste: Non-hazardous organic waste; incinerate at ordinary facilities or compost (biodegradable).
 - Packaging Waste: Rinse with water; dispose as non-hazardous plastic waste or recycle.
- 13.2 Disposal Regulations: Comply with local/national/international solid waste disposal regulations.

SECTION 14: Transport Information

14.1 UN Number: ADR/RID: -; IMDG: -; IATA-DGR: -14.2 Shipping Name: Not dangerous goods (all regulations)14.3 Hazard Class: - (all regulations)14.4 Packaging Group: - (all regulations)14.5 Env. Hazards: No (all regulations)14.6 Precautions: Transport at $\leq 25^{\circ}\text{C}$; sealed packaging to avoid moisture/dust; no transport with strong oxidizers/concentrated acids.

SECTION 15: Regulatory Information

15.1 National/International Regulations

- China: Hazardous Chemical Safety Management Regulation (Non-hazardous); Food Safety Law; Cosmetic Supervision and Administration Regulation.
- International: GHS Rev.9 (Eye Irrit.2A); REACH (EU, not in SVHC); TSCA (US, listed); USP/EP (compliant).

15.2 Other Regulations: Comply with local food/cosmetic/health care product manufacturing standards.

SECTION 16: Other Information

- Further Information: This MSDS complies with GB/T 16483, GB/T 17519 and GHS. Supplier is not liable for damage from improper use.
- Revision Date: 05 FEB 2026