品鸿生物科技
Pinhon Biotechnology

SAFETY DATA SHEET

PINHONBIO® Peony Root Extract (80% Paeoniflorin)

1. Identification

Product identifier	PINHONBIO® Peony Root Extract (80% Paeoniflorin)
INCI	PAEONIA ALBIFLORA ROOT EXTRACT
Other identifier	Standardized peony-root extract; active marker: paeoniflorin
Recommended use	Cosmetic raw material for professional formulation
Restrictions on use	Not intended for direct consumer use. Not for diagnostic or therapeutic use.
Supplier	Shaanxi Pinhon Biotechnology Co., Ltd.
Address	Room 704, Unit 2, Building 1, I-Duhui, No. 11 Tangyan South Road, Yanta District, Xi'an, Shaanxi, China
Website	https://pinhoningredients.com/
Emergency contact	Albert Zhao, +86 173 0298 1616; 09:00–18:00 China Standard Time; Chinese/English

2. Hazard(s) Identification

GHS classification	Acute toxicity (oral), Category 4
Pictogram	GHS07 — Exclamation mark
Signal word	WARNING
Hazard statement	H302: Harmful if swallowed.
Precautionary statements	P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P301+P317 If swallowed: Get medical help. P330 Rinse mouth. P501 Dispose of contents/container in accordance with applicable regulations.
Other hazards	Dust may cause mechanical irritation. Product is not classified as flammable; avoid airborne dust and ignition sources as a general powder-handling precaution.

3. Composition / Information on Ingredients

Ingredient	CAS	EC	Content	Classification
Paeoniflorin	23180-57-6	245-476-2	≥80%	Acute Tox. 4; H302
Other naturally occurring constituents of Paeonia albiflora root extract	Mixture	—	≤20%	Not classified from available data

The exact composition of the natural extract fraction is proprietary. The active-marker CAS/EC numbers do not represent a separate CAS assignment for the complete botanical mixture.

4. First-Aid Measures

Inhalation	Move to fresh air. Obtain medical advice if coughing, breathing discomfort or other symptoms persist.
Skin contact	Remove contaminated clothing. Wash skin with soap and water. Seek medical advice if irritation develops.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing. Obtain medical advice if irritation persists.
Ingestion	Rinse mouth. Do not induce vomiting unless instructed by medical personnel. Get medical help or contact a poison center if unwell.
Most important effects	Harmful if swallowed. Dust may cause temporary mechanical irritation.
Advice to physician	Treat symptomatically and supportively.

5. Fire-Fighting Measures

Suitable extinguishing media	Water spray, alcohol-resistant foam, dry chemical or carbon dioxide, selected for surrounding fire.
Unsuitable media	Do not use a high-volume water jet where it may spread material.
Specific hazards	Not classified as flammable. Thermal decomposition may produce carbon oxides and irritating fumes. Avoid generating dispersed dust.
Protective equipment	Firefighters should wear self-contained breathing apparatus and full protective equipment.

6. Accidental Release Measures

- Avoid breathing dust and contact with eyes. Use the personal protective equipment described in Section 8.
- Prevent entry into drains, surface water and soil in significant quantities.
- Avoid creating dust. Sweep or vacuum with suitable filtered equipment and place in a closed, labelled container for recovery or disposal.
- Wash the affected area after material recovery, subject to local wastewater requirements.

7. Handling and Storage

Safe handling	Use good industrial hygiene. Avoid ingestion, breathing dust and unnecessary skin or eye contact. Keep containers closed when not in use.
Storage conditions	Store tightly closed in a cool, dry, well-ventilated place protected from light, heat and moisture.
Incompatibilities	Strong oxidizing agents.
Shelf life	24 months in the unopened original package when stored as recommended.

8. Exposure Controls / Personal Protection

Occupational exposure limits	No product-specific occupational exposure limit has been established.
Engineering controls	Provide general ventilation. Use local dust extraction where airborne powder may be generated.
Eye / face protection	Safety glasses with side shields; use chemical splash goggles where dust exposure is significant.
Hand protection	Protective gloves suitable for the task, e.g. nitrile. Select breakthrough time appropriate to use.
Skin protection	Protective work clothing. Wash exposed skin after handling.
Respiratory protection	Normally not required with adequate ventilation. Use an approved particulate respirator when dust cannot be controlled.
Hygiene measures	Do not eat, drink or smoke in work areas. Wash hands after handling.

9. Physical and Chemical Properties

Physical state	Solid powder
Appearance	Light yellow powder
Odor	Characteristic
pH	No data available for the supplied mixture
Melting / freezing point	No data available for the supplied mixture
Boiling point / range	Not applicable / no data available
Flash point	No data available; not classified as flammable
Flammability	Not classified as flammable
Explosive limits	No data available
Vapor pressure / density	No data available / not applicable to a nonvolatile solid under normal conditions
Relative density	No data available
Solubility	Soluble in methanol under the analytical method. Paeoniflorin is water-soluble; mixture-specific quantitative solubility has not been determined.
Partition coefficient	No data available for the supplied mixture
Auto-ignition / decomposition temperature	No data available
Particle characteristics	≥99% passing 80 mesh

10. Stability and Reactivity

Reactivity	No dangerous reaction expected under normal conditions of use and storage.
Chemical stability	Stable under recommended storage conditions.
Hazardous reactions	No hazardous polymerization expected.
Conditions to avoid	Excessive heat, direct light, moisture, dust generation and ignition sources.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition	Carbon monoxide, carbon dioxide and irritating organic fumes may form on combustion or severe heating.

11. Toxicological Information

Likely routes of exposure	Ingestion, inhalation of dust, eye and skin contact.
Acute oral toxicity	Classified Acute Toxicity Category 4; H302 harmful if swallowed, based on available paeoniflorin classification data.
Skin corrosion / irritation	Not classified from available data. Prolonged contact may cause irritation in sensitive individuals.
Serious eye damage / irritation	Not classified from available data. Dust may cause mechanical irritation.
Sensitization	No adequate product-specific data available.
Mutagenicity / carcinogenicity / reproductive toxicity	No adequate product-specific data available; not classified from available information.
STOT / aspiration hazard	No adequate product-specific data available; aspiration classification is not applicable to a solid powder.
Symptoms	Possible gastrointestinal discomfort if swallowed; coughing or irritation from airborne dust.

12. Ecological Information

Ecotoxicity	No adequate product-specific data available.
Persistence / degradability	No adequate product-specific data available.
Bioaccumulative potential	No adequate product-specific data available.
Mobility in soil	No adequate product-specific data available.
PBT / vPvB assessment	Not assessed for the supplied botanical mixture.
Other adverse effects	Avoid uncontrolled release to the environment.

13. Disposal Considerations

Dispose of product residues, contaminated absorbents and packaging through an authorized waste contractor in accordance with local, regional and national requirements. Do not discharge significant quantities to drains or surface water. Empty packaging should be handled according to its contamination status.

14. Transport Information

UN number	Not assigned
UN proper shipping name	Not regulated as dangerous goods
Transport hazard class	Not assigned
Packing group	Not assigned
Environmental hazards	Not classified as a marine pollutant from available information
ADR / RID	Not regulated as dangerous goods
IMDG	Not regulated as dangerous goods
IATA / ICAO	Not regulated as dangerous goods
Special precautions	Protect from moisture, damage and excessive heat during transport.

15. Regulatory Information

This SDS uses a conservative GHS classification based on the available classification of paeoniflorin (CAS 23180-57-6) and the product composition. The user is responsible for determining all applicable chemical, workplace, cosmetic, environmental and transport requirements in the destination country. Inclusion of an INCI name does not by itself constitute authorization for a particular cosmetic use or concentration.

16. Other Information

Issue date / version	20 Sep 2026 / Version 1.0
Prepared by	Shaanxi Pinhon Biotechnology Co., Ltd.
Abbreviations	ADR: European road transport; IATA: air transport; IMDG: sea transport; PBT: persistent, bioaccumulative and toxic; vPvB: very persistent and very bioaccumulative; STOT: specific target organ toxicity.
Reference sources	PubChem CID 442534; ECHA substance information for CAS 23180-57-6; Cayman Chemical Paeoniflorin SDS (19861); COSMILE Europe INCI entry; current PINHONBIO product specification and batch COA.

Disclaimer: The information is based on data available on the issue date and is intended to describe health, safety and environmental requirements for the product as supplied. It is not a warranty of product properties. Users must determine suitability for their process and comply with all applicable requirements.