SAFETY DATA SHEET

PINHONBIO® Peony Root Extract (90% Paeoniflorin)

1. Identification

Product	PINHONBIO® Peony Root Extract (90% Paeoniflorin)
Use	Raw material for professional formulation and development.
Supplier	Shaanxi Pinhon Biotechnology Co., Ltd. Room 704, Unit 2, Building 1, I-Duhui, No. 11 Tangyan South Road, Yanta District, Xi'an, Shaanxi, China
Contact	+86 198 2930 0704 | tech@pinhoningredients.com
Emergency contact	Albert Zhao +86 173 0298 1616 | 09:00–18:00 China time (UTC+8). Outside these hours contact local emergency services.

2. Hazards identification

Classification Acute oral toxicity, Category 4, based on the classification and concentration of paeoniflorin.



Warning

H302. Harmful if swallowed.

Precautions Avoid breathing dust. Wear protective gloves and goggles. Wash hands after handling. Keep food and drink out of the work area. Follow the first aid measures in Section 4. Dispose of residues through an authorized contractor.

Other hazards Fine airborne particles can cause eye or airway discomfort. Prevent dust accumulation and keep ignition sources away from powder transfers.

3. Composition and information on ingredients

Constituent	CAS No.	Amount in product
Paeonia albiflora root extract	Botanical extract	100% of formulation
Paeoniflorin (within extract)	23180-57-6	≥90.0% of product

Grade specification ≥90.0% paeoniflorin by HPLC.

Paeonia lactiflora Pall. root extract. No excipient is listed.

4. First aid measures

Inhalation Move to fresh air and keep the person comfortable. Seek urgent medical attention for difficulty breathing.

Skin and eyes Remove contaminated clothing. Wash skin with soap and water. Rinse eyes gently with water for several minutes, remove contact lenses if easy and continue rinsing. Seek medical advice for persistent symptoms.

Ingestion Rinse mouth. Do not induce vomiting. Contact a poison centre or doctor if unwell. Give nothing by mouth to an unconscious person. Treat symptoms and show this sheet to medical personnel.

5. Firefighting measures

Extinguishing media Use water spray, foam, dry powder or carbon dioxide as appropriate to the surrounding fire. Avoid a water jet that could disperse the powder.

Fire hazards Thermal decomposition may release carbon oxides and irritating smoke. Wear self-contained breathing apparatus and protective clothing. Contain contaminated runoff.

6. Accidental release measures

Ventilate the area, keep unnecessary personnel away and use the protective equipment in Section 8. Collect spilled powder gently with a scoop or a suitable industrial vacuum. Avoid compressed air. Place residues in a closed, labeled container. Prevent discharge to soil, drains or watercourses.

7. Handling and storage

Handling Use local exhaust when opening bags, weighing or transferring powder. Minimize dust formation. Keep containers closed between uses. Wash hands before breaks.

Storage Keep tightly closed in a cool, dry place protected from light and moisture. Segregate from strong oxidizing agents. Keep the original liner sealed inside its outer packaging.

8. Exposure controls and personal protection

Exposure controls No product-specific workplace exposure limit was identified in the cited data. Apply the local limits for inhalable and respirable dust. Use local exhaust at points of release.

Protective equipment Wear safety goggles, protective gloves and work clothing. Use a fitted particulate respirator appropriate to the assessed exposure if ventilation cannot control dust. Provide an eyewash station and washing facilities.

9. Physical and chemical properties

Property	Product information
Physical state and appearance	White powder
Odour	Characteristic (product specification)
Particle characteristics	At least 99% passes an 80-mesh sieve.
Water solubility	Quantitative product data unavailable.
Other physical data	Bulk and relative density have not been established for the product.
Thermal and ignition properties	No product values for melting or boiling point, flammability limits, flash point, autoignition or decomposition temperature.
Other measurements	Vapour pressure, partition coefficient and quantitative dust explosion data unavailable. Kinematic viscosity is inapplicable to the dry powder.

10. Stability and reactivity

Stable under recommended storage conditions. Avoid excessive heat, strong light, moisture and contact with strong oxidizers. No hazardous reaction is known under normal handling conditions. Combustion products are described in Section 5.

11. Toxicological information

Routes and short-term effects H302. Harmful if swallowed. Exposure can occur during weighing, transfer and cleanup.

Toxicity data The principal constituent is classified for acute oral toxicity. The extract contains at least 90% paeoniflorin. Product-specific oral LD_{50}, dermal LD_{50} and inhalation LC_{50} values are unavailable.

Product-specific data for sensitisation, mutagenicity, carcinogenicity, reproductive toxicity and repeated-exposure organ effects are unavailable. Aspiration of liquid is not expected for the supplied solid.

12. Ecological information

Prevent the release of powder and contaminated wash water into the environment. Product-specific data on aquatic toxicity, degradation, bioaccumulation and soil mobility are unavailable. No product-specific PBT, vPvB or endocrine-disruption assessment is available.

13. Disposal considerations

Collect unused material, contaminated packaging and cleanup residues in suitable closed containers. Use an authorized waste contractor. Assign waste codes according to the actual use and contamination. Keep waste out of drains.

14. Transport information

Transport item	Information
Road, sea and air	Classification of the finished preparation has not been established.
UN number and proper shipping name	Undetermined for the finished preparation.
Hazard class and packing group	Undetermined.
Environmental hazards	Undetermined for the preparation.
Handling and bulk transport	Ship in sealed, dry packages. Maritime transport in bulk is outside the intended supply form.

15. Regulatory information

Occupational hazard communication follows the GHS framework. Assess the supplied material and intended use under applicable local workplace, chemical and environmental rules. No supplier chemical safety assessment is available for this grade.

16. Other information

Sources PINHONBIO product specification and the following public chemical safety information.

Cayman Chemical, Paeoniflorin SDS, item 19861 (marker constituent).
https://cdn.caymanchem.com/cdn/msds/19861m.pdf

Product data apply to the grade identified in Section 1. Train personnel in powder handling, protective equipment, spill control and first aid before use.