Safety Data Sheet

PINHONBIO® Swertia Japonica Extract (Swertiamarin 95%)

SDS / MSDS | Assay ≥95.0% | General product specification | Version 1.0

1. Identification

Product identifier	PINHONBIO® Swertia Japonica Extract (Swertiamarin 95%)
INCI name	SWERTIA JAPONICA EXTRACT
Product type	Swertia japonica extract standardized to ≥95% swertiamarin.
Recommended use	Raw material for professional cosmetic formulation and manufacturing.
Restrictions	Not for direct consumption, injection or inhalation. Assess finished-product suitability for its intended 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
Contact	Albert Zhao | +86 173 0298 1616 | info@pinhoningredients.com | https://pinhoningredients.com/
Emergency contact	Albert Zhao | +86 173 0298 1616 | 09:00-18:00 China Standard Time (UTC+8), Chinese/English. Business-hours contact; not a 24-hour medical service.

2. Hazard identification

GHS classification: Not classified as hazardous on the basis of the available information for the declared composition. Public SDSs for swertiamarin identify it as not classified under GHS. A product-specific hazard dataset for the complete botanical grade is not available.

Label elements: No GHS pictogram, signal word or hazard statement is assigned under this classification.

Other hazards: Dust may cause mechanical eye and respiratory irritation. Individual sensitivity to botanical constituents is possible. Avoid breathing powder and unnecessary skin or eye contact. Dust-explosion characteristics have not been determined.

3. Composition and information on ingredients

Component	CAS number	Nominal content
Swertiamarin	17388-39-5	95%
Swertia japonica extract Native botanical matrix	94167-11-0	5%

Declared nominal composition: 95% active constituent and 5% botanical extract matrix. Release assay: swertiamarin ≥95.0%. Ethanol and water are extraction solvents, not intentional 5% carriers. Formula C16H22O10 and molecular weight 374.34 g/mol describe swertiamarin, not the whole botanical product.

4. First aid measures

Inhalation: Move to fresh air and stop powder exposure. Seek medical attention if coughing, breathing difficulty or other symptoms persist. Obtain urgent assistance for severe breathing problems.

Skin contact: Remove contaminated clothing. Wash with soap and water. Obtain medical advice for persistent irritation or a rash. Launder clothing before reuse.

Eye contact: Rinse cautiously with clean water for at least 15 minutes. Hold eyelids open and remove contact lenses if present and easy to do. Seek medical advice if pain, redness or visual disturbance persists.

Ingestion: Rinse the mouth. Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical advice after a significant exposure or if unwell.

Symptoms and treatment: Possible local discomfort from dust, eye irritation or skin sensitivity. Treat according to symptoms. No specific antidote is identified; show this SDS to medical personnel.

5. Firefighting measures

Suitable media: Water spray, foam, dry chemical or carbon dioxide appropriate for the surrounding fire. Avoid a strong jet that disperses powder.

Specific hazards: Organic powder may burn when sufficiently heated. Product-specific ignition and dust-explosion data are unavailable. Fire may generate carbon monoxide, carbon dioxide and irritating smoke.

Firefighters: Use self-contained breathing apparatus and suitable protective clothing where smoke or decomposition fumes are present. Cool exposed containers if safe and contain firefighting runoff.

6. Accidental release measures

Restrict access and ventilate the area. Use the protection described in Section 8. Avoid airborne dust, dry brushing and compressed air. Keep material out of drains, surface water and soil.

Collect carefully by low-dust mechanical methods or an appropriate filtered vacuum. Place in a sealed, labelled container for recovery or disposal. Clean residual powder without spreading contamination or generating dust.

7. Handling and storage

Provide ventilation and local extraction where powder is weighed or transferred. Avoid inhalation and unnecessary contact. Wash hands after use. Do not eat, drink or smoke in the work area. Use clean, dry tools and close containers immediately after handling.

Store in cool and dry places and keep away from strong light and heat. Keep tightly closed in original packaging, protected from moisture and contamination. Separate from strong oxidizing agents. Shelf life: 24 months unopened under the recommended conditions.

8. Exposure controls and personal protection

Exposure controls: No substance-specific occupational exposure limit is identified in the reviewed component SDSs. Apply relevant local airborne-particle limits and workplace assessment. Use effective ventilation and dust extraction. Provide accessible eyewash facilities.

Personal protection: Wear safety glasses or dust goggles, suitable protective gloves and work clothing. If engineering controls do not sufficiently reduce airborne powder, use an approved particulate respirator selected for the exposure and local requirements. Inspect and replace contaminated protective equipment as needed.

9. Physical and chemical properties

Physical state / appearance	Light yellow to yellow powder.
Odour / odour threshold	Characteristic / threshold not determined.
pH	Not established for this product specification.
Solubility	Swertiamarin dissolves in aqueous media and ethanol. Complete product solubility depends on concentration and the botanical matrix; no quantitative product value established.
Melting / freezing point	Not determined for this botanical grade.
Boiling point / range	Not determined.
Flammability	No product-specific test data; avoid heat and ignition sources.
Explosion / flammability limits	Not determined.
Flash point	Not applicable to the supplied solid powder.
Autoignition / decomposition temperature	Not determined.
Kinematic viscosity	Not applicable to the solid.
Partition coefficient n-octanol/water	Not determined for the complete product.
Vapour pressure / relative vapour density	Not determined.
Density / relative density / bulk density	Not determined.
Particle characteristics	Powder; ≥98% passes an 80-mesh sieve. Airborne respirable fraction is not established by this sieve result.
Oxidizing properties	No oxidizing ingredient identified in the declared composition.
Other quality limits	Swertiamarin ≥95.0%; ash <3.0%; loss on drying <5.0%; residual solvents <2,000 mg/kg.

10. Stability and reactivity

Stable under recommended storage and handling conditions. Protect from moisture, strong light and heat. Avoid strong oxidizing agents and unnecessary generation of airborne dust. No hazardous reaction is identified under normal handling conditions. Thermal decomposition may produce carbon oxides and irritating fumes.

11. Toxicological information

Exposure routes: Inhalation of dust, eye and skin contact, and accidental ingestion. Dust may cause local discomfort or mechanical irritation; sensitivity to plant-derived constituents is possible.

Acute toxicity: No measured LD50 or LC50 is available for the complete 95% botanical product. Public component SDSs describe swertiamarin as not classified for acute toxicity; these reference-grade data are not tests of this extract.

Other endpoints: Adequate product-specific skin / eye irritation, sensitization, mutagenicity, carcinogenicity, reproductive toxicity, target-organ toxicity and aspiration-hazard data are not available. Absence of a classification does not establish safety for ingestion, inhalation or direct consumer use.

12. Ecological information

No adequate test data are available for the complete product on aquatic toxicity, persistence, degradability, bioaccumulation or soil mobility. PBT / vPvB and endocrine-disruption assessments have not been established. Prevent uncontrolled release to waterways, drains and soil. Botanical origin does not prove rapid biodegradability or environmental harmlessness.

13. Disposal considerations

Collect residues and contaminated packaging in sealed, labelled containers. Dispose of through an authorized waste contractor according to local requirements. Recycle clean outer packaging where permitted. Do not dispose of powder or concentrated solutions through drains. Empty inner packaging may retain residues.

14. Transport information

Transport status	Non-dangerous goods.
Road / rail, sea and air	No dangerous-goods assignment is identified from the declared composition and reviewed swertiamarin reference SDSs.
UN number / proper shipping name	Not applicable.
Transport hazard class / packing group	Not applicable.
Marine pollutant	No marine-pollutant ingredient identified from available composition information.
Special precautions	Use sealed, intact packaging. Protect from moisture, strong light, heat and damage. Prevent powder leakage.
Maritime transport in bulk	Not intended for maritime bulk-chemical transport.

15. Regulatory information

Prepared using the GHS 16-section SDS structure. The INCI name is SWERTIA JAPONICA EXTRACT. An INCI or CAS identifier does not establish market authorization, chemical-inventory registration, REACH status or finished-product approval. Comply with applicable destination-market chemical, workplace and cosmetic requirements.

16. Other information

Issue date: 13 Oct 2026 | Version: 1.0 | Prepared for Shaanxi Pinhon Biotechnology Co., Ltd..

Scope: General SDS / MSDS for Swertia japonica extract standardized to ≥95% swertiamarin, with declared nominal composition 95% swertiamarin / 5% extract matrix. Applies across batches of the same grade. Revise if composition or relevant safety information changes.

Basis: PINHONBIO standing quality specification and supplier-confirmed composition, botanical source and storage instructions. GHS and transport evaluation uses available component information; complete-product toxicology has not been measured. No carrier is added to the declared composition.

Cayman Chemical Swertiamarin SDS 27634, revised 15 Sep 2025. View source

FUJIFILM Wako Swertiamarin SDS 191-13951, revised 26 May 2023. View source

PubChem Swertiamarin identity record. View source

Korea Cosmetic Association Swertia Japonica Extract identity and CAS. View source

References accessed 13 Oct 2026. Reference SDSs concern other suppliers' swertiamarin grades; their laboratory-use limitations, storage temperatures, registrations and test results are not automatically PINHONBIO product specifications.

Abbreviations: GHS, Globally Harmonized System; LD50 / LC50, median lethal dose / concentration; PBT / vPvB, persistent, bioaccumulative and toxic / very persistent and very bioaccumulative; HPLC, high-performance liquid chromatography; TLC, thin-layer chromatography.

This sheet supports safe workplace handling of the raw material. It does not guarantee a particular property or replace a finished-product safety assessment.