Safety Data Sheet

PINHONBIO® Aescin (Escin) 98%

SDS / MSDS | Assay ≥98.0% on dried basis | General product specification | Version 1.0

1. Identification

Product identifier	PINHONBIO® Aescin (Escin) 98%
Other names / INCI	Aescin; Escin / AESCULUS CHINENSIS EXTRACT
Recommended use	Raw material for professional cosmetic formulation and manufacturing.
Restrictions	Not for direct consumption, inhalation, injection or direct consumer use. Finished formulations require separate assessment.
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

Hazard class	Category	Code
Acute toxicity, oral	4	H302
Acute toxicity, inhalation of dust / mist	4	H332
Serious eye damage / eye irritation	2	H319
Specific target organ toxicity, single exposure	3, respiratory irritation	H335
Hazardous to the aquatic environment, chronic	2	H411



Warning | GHS09 and GHS07

H302 + H332: Harmful if swallowed or if inhaled. H319: Causes serious eye irritation. H335: May cause respiratory irritation. H411: Toxic to aquatic life with long lasting effects.

Prevention: P261 Avoid breathing dust. P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves and eye / face protection.

Response and storage: P301+P312 / P330 If swallowed, rinse mouth and call a poison centre / doctor if unwell. P304+P340 / P312 If inhaled, move to fresh air and keep comfortable for breathing; call a poison centre / doctor if unwell. P305+P351+P338 Rinse eyes cautiously; remove contact lenses if easy and continue rinsing. P337+P313 Obtain advice for persistent eye irritation. P391 Collect spillage. P403+P233 Keep tightly closed in a ventilated place. P405 Store locked up. P501 Use authorized waste disposal.

Other hazards: Organic dust may burn and form combustible dust clouds. Product-specific explosion parameters are unavailable.

3. Composition and information on ingredients

Component	CAS / EC	Content specification
Aescin / Escin saponin fraction	6805-41-0 / 229-880-6	Total A+B+C+D ≥98.0%, calculated on dried basis

Derived from dried Aesculus chinensis Bunge seeds using ethanol and water. No separate carrier is specified. Residual moisture and other native constituents are not individually characterized; no fixed 2% additive is assigned. The product is a saponin fraction, not a single isolated aescin isomer.

4. First aid measures

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical advice promptly after significant exposure or if unwell. Seek emergency assistance for breathing difficulty; resuscitation should be performed by trained personnel.

Skin contact: Remove contaminated clothing and wash skin with water and soap. Obtain medical advice for persistent irritation. Wash clothing before reuse.

Eye contact: Immediately rinse with clean water for at least 15 minutes, holding eyelids apart. Remove contact lenses if present and easy to do. Continue rinsing and obtain medical attention if symptoms persist.

Ingestion: Rinse the mouth if conscious. Do not induce vomiting. Never give anything by mouth to an unconscious person. Contact a poison centre or doctor promptly after significant ingestion or if unwell.

Symptoms and treatment: Possible nausea, vomiting, cough, breathing discomfort, eye redness or pain. Treat symptomatically; no specific antidote is identified. Show this SDS to medical personnel.

5. Firefighting measures

Use water spray, dry chemical, foam or carbon dioxide suitable for the surrounding fire. Avoid a strong jet that disperses powder. Fire may produce carbon monoxide, carbon dioxide and irritating smoke. Fine dust can create a fire or explosion hazard; no measured product-specific ignition parameters are available.

Firefighters should use self-contained breathing apparatus and protective clothing. Keep unnecessary personnel away. Prevent contaminated firefighting water from entering drains and waterways.

6. Accidental release measures

Isolate the affected area, ventilate and use the protection in Section 8. Avoid breathing dust and prevent contact with the eyes. Keep away from ignition sources. Protect drains and collect material without dry brushing or compressed air.

Use careful mechanical collection or a suitable filtered vacuum and place residues in a sealed, labelled container. Collect cleaning water as contaminated waste. Notify the relevant authority if a significant release reaches a waterway or sewer.

7. Handling and storage

Use enclosed transfer or local extraction for weighing and mixing. Avoid powder inhalation and contact with the eyes, skin and clothing. Wash after handling. Keep food and drink away from the work area; do not smoke. Prevent dust accumulation and keep away from ignition sources.

Store in cool and dry places and keep away from strong light and heat. Keep the original container tightly closed in a ventilated area with controlled access. Protect from moisture and contamination. Separate from strong oxidizing agents. Shelf life: 24 months unopened under recommended conditions.

8. Exposure controls and personal protection

Exposure limits: No aescin-specific occupational exposure limit is identified in the reviewed reference SDSs. Apply relevant local particle limits; these do not replace control of harmful inhalation exposure.

Controls and PPE: Use effective dust extraction and accessible eyewash and washing facilities. Wear chemical safety goggles, suitable protective gloves and work clothing. Use an approved, fit-tested particulate respirator where dust can be inhaled and engineering control is insufficient. Select filter class and protection factor for the task; use supplied-air protection for uncontrolled or unknown high exposure.

9. Physical and chemical properties

Physical state / appearance	White powder.
Odour / odour threshold	Characteristic / threshold not determined.
pH	No product-specific value established.
Solubility	Limited aqueous solubility is reported for reference aescin. No quantitative solubility is established for this product; assess the actual grade and formulation.
Melting / freezing point	No measured product-specific value established.
Boiling point / range	Not determined.
Flammability	Organic solid; combustible dust may form. No product-specific ignition test available.
Explosion / flammability limits	Not determined.
Flash point	Not applicable to the supplied solid.
Autoignition / decomposition temperature	Not determined.
Kinematic viscosity	Not applicable to the solid.
Partition coefficient n-octanol/water	Not determined for this grade.
Vapour pressure / relative vapour density	Not determined.
Density / relative density / bulk density	Not determined.
Particle characteristics	≥98% passes an 80-mesh sieve. Airborne respirable fraction is not established.
Other standing specifications	Total aescins ≥98.0% on dried basis; loss on drying <5.0%; ash <3.0%; residual ethanol <2,000 mg/kg.

10. Stability and reactivity

Stable under recommended storage and handling conditions. Avoid strong light, excessive heat, moisture and dust accumulation. Strong oxidizing agents may cause hazardous reactions. Combustion or severe thermal decomposition may produce carbon oxides and irritating fumes. No hazardous polymerization is expected during normal use.

11. Toxicological information

Exposure routes: inhalation of dust, accidental ingestion and contact with the eyes or skin. Aescin is classified as harmful after oral or inhalation exposure, with serious eye irritation and respiratory irritation hazards.

Acute toxicity: Reference aescin SDSs support oral Category 4 and inhalation Category 4. No LD50, LC50 or acute-toxicity estimate measured for this PINHONBIO product is supplied. Reference values for other grades are not batch test results.

Skin and eye effects: Eye contact may produce marked redness, pain and watering. Avoid prolonged skin contact. No separate skin-corrosion classification is assigned from the reviewed information.

Other endpoints: Product-specific sensitization, mutagenicity, carcinogenicity, reproductive-toxicity, repeated-exposure target-organ and aspiration-hazard studies are unavailable. Absence of an assigned category for these endpoints is not proof of absence of effects.

12. Ecological information

Aquatic hazard: Classified as Aquatic Chronic Category 2. Prevent entry to drains and surface or ground water. Contaminated wash water and firefighting runoff must be collected.

Product-specific degradation, bioaccumulation, soil mobility, PBT / vPvB and endocrine-disruption assessments are not available. Do not infer environmental harmlessness or ready biodegradability from the botanical origin.

13. Disposal considerations

Collect unused material, spilled powder and contaminated packaging as hazardous chemical waste for an authorized contractor. Apply local waste classification and disposal requirements. Do not discard through drains or with uncontrolled general waste. Inner packaging can retain hazardous residues; treat it accordingly.

14. Transport information

UN number	UN 3077
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (aescin)
Road / rail ADR / RID	Class 9 | Packing Group III
Sea IMDG	Class 9 | Packing Group III | Marine pollutant: Yes
Air IATA / ICAO	Class 9 | Packing Group III
Environmental hazard	Yes.
Emergency schedules for sea transport	F-A, S-F
Special precautions	Use appropriate sealed, sift-proof packaging. Prevent dust escape, water entry, strong light, heat and physical damage. Keep away from food and incompatible materials.
Maritime transport in bulk	Not intended for bulk chemical transport.

Transport classification follows EDQM and Carl Roth reference aescin SDSs. Other supplier documents differ. Any applicable small-package exception depends on the current modal rules, quantity and packaging; it does not change the underlying hazard classification. Confirm the consignment requirements with the carrier.

15. Regulatory information

Prepared using the GHS 16-section SDS structure with the hazard categories listed in Section 2. This document does not certify chemical-inventory status, REACH registration or cosmetic / pharmaceutical approval in a destination market. Apply the relevant workplace, chemical, transport and finished-product requirements.

16. Other information

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

Scope: Standing SDS / MSDS for the Aescin / Escin ≥98.0% grade, calculated on dried basis. Product identity, quality limits, botanical source, storage and shelf life follow the PINHONBIO specification and supplier confirmations. No batch assay results are included.

Basis: The oral, inhalation, eye, respiratory and aquatic hazard categories are supported by public aescin reference SDSs. The adopted hazard and transport information applies to the concentrated raw material; it must not be replaced by the safety profile of a dilute finished cosmetic.

EDQM Aescin for LC assay SDS, revised 04 Dec 2024. View source

Carl Roth Aescin ≥95% SDS, revised 21 Jan 2026. View source

Thermo Fisher Aescin SDS J66968, revised 24 Dec 2025. View source

Merck / Sigma-Aldrich Escin E1378 identity information. View source

References accessed 13 Oct 2026. Other suppliers' study values, chemical registrations and guarantees are not automatically PINHONBIO product data.

Abbreviations: GHS, Globally Harmonized System; STOT SE, specific target organ toxicity, single exposure; HPLC, high-performance liquid chromatography; LD50 / LC50, median lethal dose / concentration; PBT / vPvB, persistent, bioaccumulative and toxic / very persistent and very bioaccumulative.

This sheet supports safe handling of the raw material. It is not a guarantee of a particular property or a substitute for workplace and finished-product assessment.