品鸿生物科技
Pinhon Biotechnology

SAFETY DATA SHEET

PINHONBIO® Madecassoside 95%

1. Identification

Product identifier	PINHONBIO® Madecassoside 95%
INCI	MADECASSOSIDE
Botanical source	Centella asiatica (L.) Urban; entire plant
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	Not classified as hazardous according to available GHS information.
Pictogram	None required
Signal word	None required
Hazard statements	None required
Precautionary information	Observe normal industrial hygiene. Avoid breathing dust and unnecessary eye or skin contact. Wash hands after handling.
Physical hazards	Not classified as explosive, flammable, oxidizing, radioactive or corrosive.
Other hazards	Airborne powder may cause temporary mechanical irritation. Avoid generating dust and keep away from ignition sources as a general powder-handling precaution.

3. Composition / Information on Ingredients

Chemical component	INCI	CAS	Formula	Molecular weight	Content
Madecassoside	MADECASSOSIDE	34540-22-2	C48H78O20	975.13	95%
Centella asiatica extract	CENTELLA ASIATICA EXTRACT	84696-21-9	—	—	5%

The 5% Centella asiatica extract fraction consists of naturally occurring plant constituents, including triterpene saponins and triterpene acids.

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 and 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 and continue rinsing. Obtain medical advice if irritation persists.
Ingestion	Rinse mouth. Do not induce vomiting unless instructed by medical personnel. Obtain medical advice if symptoms develop or a large quantity is swallowed.
Most important effects	No specific acute or delayed effects are known from available product data. 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 the 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 organic fumes. Avoid dispersed dust.
Protective equipment	Firefighters should wear self-contained breathing apparatus and full protective equipment where required by the surrounding fire.

6. Accidental Release Measures

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

7. Handling and Storage

Safe handling	Use good industrial hygiene. Avoid breathing dust and unnecessary eye or skin 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.
Incompatible materials	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 dust-tight goggles where airborne powder is significant.
Hand protection	Protective gloves suitable for the task, e.g. nitrile.
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	Off-white to white 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 properties	Not classified as explosive
Oxidizing properties	Not classified as oxidizing
Vapor pressure / density	No data available / not applicable to a nonvolatile solid under normal conditions
Relative density	No data available
Water solubility	Good solubility in water according to the current product specification
Solubility reference	Pure madecassoside is reported soluble in PBS and polar organic solvents; mixture-specific quantitative solubility is not determined.
Partition coefficient	No data available for the supplied mixture
Auto-ignition / decomposition temperature	No data available
Particle characteristics	≥98% 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 toxicity	Not classified from available GHS information. No adequate product-specific LD50 data are available.
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	No adequate product-specific data available; published supplier information reports no classification.
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 a large amount is 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 expected to meet PBT or vPvB criteria from available supplier information; product-specific assessment not performed.
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 restricted / not regulated as dangerous goods
Transport label	Normal package labels; no dangerous-goods label required
Special precautions	Protect from moisture, package damage and excessive heat during transport.

15. Regulatory Information

Madecassoside (CAS 34540-22-2) is reported as not meeting GHS hazard classification criteria in the available ECHA C&L notification summary compiled by PubChem. 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 authorize 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 Madecassoside CID 24825675; Cayman Chemical Madecassoside SDS (11855); current PINHONBIO Madecassoside 95% COA; supplier-provided composition and transport information.

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.