Safety Data Sheet

PINHONBIO® Spilanthol

SDS / MSDS | Concentrated grade | General product specification | Version 1.0

1. Identification

Product identifier	PINHONBIO® Spilanthol | Concentrated grade
Recommended use / restrictions	Professional cosmetic formulation. Not for direct consumer use, ingestion, injection or inhalation. Assess finished-product suitability separately.
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	Hazard statement
Skin irritation	2	H315 Causes skin irritation.
Eye irritation	2	H319 Causes serious eye irritation.
Specific target organ toxicity, single exposure	3, respiratory irritation	H335 May cause respiratory irritation.



Warning | GHS07

Prevention: P261 Avoid breathing mist, vapours or spray. P264 Wash thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves and eye / face protection.

Response: P302+P352 Wash exposed skin with plenty of water. P332+P313 Obtain advice for skin irritation. P362+P364 Remove contaminated clothing and wash before reuse. P305+P351+P338 Rinse eyes cautiously; remove contact lenses if easy and continue rinsing. P337+P313 Obtain advice for persistent eye irritation. P304+P340 Move an exposed person to fresh air. P312 Call a poison centre / doctor if unwell.

Storage and disposal: P403+P233 Keep tightly closed in a ventilated place. P405 Store locked up. P501 Dispose of contents / container through authorized waste disposal. Spills may be slippery; heated organic liquid can burn.

3. Composition and information on ingredients

Component	CAS number	Declared range
Spilanthol	25394-57-4	97-98%
Related isomeric impurities, predominantly alkene positional isomers	Individual identifiers not assigned	2-3% combined

Ranges are supplier-declared composition ranges, not batch results. They are paired to give 100% total and do not mean 2-3% of one individual impurity. Standing release limits: purity ≥95.0%; total impurities <5.0%; any single impurity <2.0%, by qNMR. No intentional MCT or DMI carrier is declared.

4. First aid measures

Inhalation: Move to fresh air and keep comfortable for breathing. Stop further mist exposure. Seek medical advice if unwell or if cough or breathing discomfort persists; obtain urgent assistance for severe breathing difficulty.

Skin contact: Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation develops or persists. Wash clothing before reuse.

Eye contact: Immediately rinse gently with clean water for at least 15 minutes, holding eyelids open. Remove contact lenses if easy to do and continue rinsing. Obtain medical advice for persistent pain, redness or visual disturbance.

Ingestion: Rinse the mouth. Do not induce vomiting or give anything by mouth to an unconscious person. Contact a doctor or poison centre if unwell or after significant exposure.

Symptoms and treatment: Possible skin redness, burning, eye watering and respiratory irritation. Treat symptomatically; no specific antidote is identified. Show this SDS to medical personnel.

5. Firefighting measures

Use foam, dry chemical, carbon dioxide or fine water spray appropriate for the surrounding fire. Avoid a forceful jet that spreads liquid. Cool exposed containers from a safe position. No product-specific flash-point test has been provided.

Heating or combustion may produce carbon oxides, nitrogen oxides and irritating smoke. Firefighters should use self-contained breathing apparatus and protective clothing. Contain contaminated firefighting water.

6. Accidental release measures

Restrict access, ventilate and wear the protection in Section 8. Stop the leak if safe. Prevent entry to drains, soil and waterways. Contain liquid and absorb with inert material; collect in a sealed, labelled waste container. Remove slippery residues and collect contaminated cleaning materials for disposal.

7. Handling and storage

Avoid splashes, skin contact and mist generation. Use clean equipment and close containers promptly. Wash hands before breaks and after work. Keep food and drink out of the work area; do not smoke. Use local extraction where heated transfer or spraying can generate mist.

Store tightly closed in a cool, dry, shaded place, protected from strong light and heat. Keep the compatible original packaging in a ventilated area with controlled access. Separate from strong oxidizing agents, strong acids and strong bases. Shelf life: 24 months unopened under the recommended conditions.

8. Exposure controls and personal protection

Exposure controls: No spilanthol-specific occupational exposure limit is identified in the reviewed reference SDS. Apply relevant local mist and vapour limits and workplace assessment. Provide ventilation and local extraction for aerosol-generating work; maintain accessible eyewash facilities.

Personal protection: Wear chemical splash goggles, suitable chemical-resistant gloves and protective clothing. Select gloves for the task and change them when contaminated. If ventilation cannot control exposure, use approved respiratory protection selected for the actual mist / vapour and local requirements.

9. Physical and chemical properties

Physical state / appearance	Yellow oily liquid.
Odour / odour threshold	Characteristic / threshold not determined.
Melting / freezing point	Not determined for this grade.
Boiling point / range	Not determined.
Flammability	Organic liquid; can burn on sufficient heating.
Explosion / flammability limits	Not determined.
Flash point	Not determined for this product.
Autoignition / decomposition temperature	Not determined.
pH	Not applicable to the undiluted nonaqueous material.
Kinematic viscosity	Not determined.
Solubility	Clarity specification: clear at 5% in MCT. No universal water-solubility or quantitative product-solubility value is assigned.
Partition coefficient n-octanol/water	Not determined for this grade.
Vapour pressure / relative vapour density	Not determined.
Density / relative density	Not determined.
Particle characteristics	Not applicable to the supplied liquid.
Molecular information	Spilanthol: C14H23NO; 221.34 g/mol. Individual impurity structures are not fully assigned.

10. Stability and reactivity

Stable under recommended handling and storage conditions. Avoid excessive heat, prolonged strong light and contamination. Keep separate from strong oxidizers, strong acids and strong bases. No hazardous polymerization is expected during normal use. Thermal decomposition may generate carbon oxides, nitrogen oxides and irritating fumes.

11. Toxicological information

Likely exposure routes: skin and eye contact, inhalation of mist or heated vapour, and accidental ingestion. The concentrated product carries skin, eye and respiratory irritation classifications based on the predominant spilanthol component.

No numerical product-specific LD50, LC50, acute-toxicity estimate, sensitization, mutagenicity, carcinogenicity, reproductive-toxicity, repeated-exposure or aspiration-hazard dataset is available. The individual related isomers have not been separately characterized toxicologically. Analytical purity does not establish safety for direct consumer use.

12. Ecological information

Aquatic toxicity, degradation, bioaccumulation and soil mobility have not been measured for this grade. Product-specific PBT / vPvB and endocrine-disruption assessments are unavailable. Prevent uncontrolled environmental release; no environmental harmlessness or biodegradability guarantee is assigned.

13. Disposal considerations

Collect unused material, absorbents and contaminated packaging for an authorized waste contractor in accordance with local requirements. Do not pour into drains or surface water. Empty containers may retain residues; do not reuse uncleaned packaging for food, drink or cosmetics.

14. Transport information

Transport status	Non-dangerous goods based on the declared composition and available spilanthol reference transport information.
UN number / proper shipping name	Not assigned / not applicable.
Road / rail ADR / RID	Not regulated as dangerous goods.
Sea IMDG	Not regulated as dangerous goods.
Air IATA / ICAO	Not regulated as dangerous goods.
Transport class / packing group	Not assigned.
Marine pollutant	No assignment identified on available composition information.
Special precautions	Use sealed, leakproof compatible packaging and protect from strong light, heat and damage. Prevent leakage.
Maritime transport in bulk	Not intended for bulk chemical transport.

Transport non-dangerous-goods status is separate from the workplace irritation hazards in Section 2. No product-specific flash-point or transport-test report is supplied; review classification if the composition or relevant test information changes.

15. Regulatory information

Prepared using the GHS 16-section SDS structure. Hazard evaluation is based on the declared composition and public spilanthol reference information. This document does not certify chemical-inventory registration, REACH status, cosmetic approval or suitability in every market. Apply the relevant destination-market and finished-product requirements.

16. Other information

Issue date: 14 Oct 2026 | Version: 1.0 | Prepared for Shaanxi Pinhon Biotechnology Co., Ltd..

Scope: General SDS / MSDS for the concentrated grade with supplier-declared spilanthol 97-98% and related isomeric impurities 2-3% combined. It contains standing information, not batch test results. Review if composition moves outside the stated ranges or new hazard data become available.

Basis: PINHONBIO product specification and supplier confirmations of qNMR testing and impurity description. Skin Irrit. 2, Eye Irrit. 2 and STOT SE 3 follow public spilanthol reference SDS information. Specific isomer identities and individual hazard classifications remain unassigned.

LGC Standards Spilanthol (P) SDS, revised 11 Mar 2026. View source

PubChem Spilanthol identity record. View source

References accessed 14 Oct 2026. qNMR: quantitative nuclear magnetic resonance; STOT SE: specific target organ toxicity, single exposure; PBT / vPvB: persistent, bioaccumulative and toxic / very persistent and very bioaccumulative. Other suppliers' registrations and guarantees are not automatically PINHONBIO product data.

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