Safety Data Sheet

PINHONBIO® Spilanthol 5% (DMI)

SDS / MSDS | Cosmetic ingredient solution | Version 1.0

1. Identification

Product identifier	PINHONBIO® Spilanthol 5% (DMI)
Product type	Mixture of 5% spilanthol in Dimethyl Isosorbide.
Recommended use	Raw material for professional cosmetic formulation.
Restrictions on use	Not for direct consumer use or ingestion. Finished-product suitability must be assessed by the formulator.
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	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.

2. Hazard identification

GHS classification: Not classified as hazardous for the nominal composition in Section 3, based on available ingredient information and generic mixture concentration criteria.

Label elements: No GHS pictogram, signal word or hazard statement required for this mixture.

Other hazards: Avoid contact with eyes and breathing generated mist. The carrier can assist delivery of dissolved substances through skin. Spills can be slippery; heated liquid can burn.

3. Composition and information on ingredients

Component	CAS number	Weight %	Component classification
Spilanthol	25394-57-4	5%	Skin Irrit. 2 (H315); Eye Irrit. 2 (H319); STOT SE 3 (H335).
Dimethyl Isosorbide	5306-85-4	95%	Not classified as hazardous in the cited carrier SDS.

Nominal weight composition for this grade. Component classifications describe the ingredients, not the diluted mixture. CAS 25394-57-4 identifies spilanthol only; no single CAS number is assigned to the mixture.

4. First aid measures

Inhalation	Move away from mist or vapour to fresh air. Obtain medical help if breathing discomfort continues.
Skin contact	Remove contaminated clothing. Wash exposed skin with soap and water. Seek medical advice if irritation or rash develops.
Eye contact	Flush gently with water for at least 15 minutes. Remove contact lenses if easy to do. Seek medical attention if symptoms persist.
Ingestion	Rinse the mouth. Do not induce vomiting or give liquids to an unconscious person. Contact a doctor or poison centre if unwell.
Symptoms and treatment	Contact may produce irritation; mist may irritate airways. Treat according to symptoms and show this SDS to medical personnel.

5. Firefighting measures

Use foam, dry chemical, carbon dioxide or fine water spray as appropriate for the surrounding fire. Avoid a direct water jet that can spread burning liquid. Cool exposed containers from a safe position.

Heating or combustion can generate carbon oxides, nitrogen oxides and irritating smoke. Firefighters should use self-contained breathing apparatus and full protective equipment. The mixture flash point has not been determined.

6. Accidental release measures

Restrict access, ventilate the area and wear the protection described in Section 8. Stop the leak when safe. Prevent entry into drains, waterways and soil. Contain and absorb with inert material, then place in a labelled waste container. Remove slippery residues and dispose of clean-up waste under Section 13.

7. Handling and storage

Avoid splashing, unnecessary skin contact and formation of mist. Use clean equipment, close containers after use, and wash hands before breaks. Do not eat, drink or smoke while handling.

Store tightly closed in the original compatible container in a cool, dry, shaded and ventilated place. Protect from heat, sunlight and strong oxidizing agents. Shelf life: 24 months in unopened packaging when stored properly.

8. Exposure controls and personal protection

Exposure limits: No ingredient-specific occupational exposure limit has been identified in the cited SDS sources. Apply any local limits for generated oil mist or aerosols.

Controls and protection: Provide ventilation, with local exhaust where heated transfer or spraying generates mist. Wear splash goggles, suitable chemical-resistant gloves and protective clothing. Select glove material and replacement intervals for the actual carrier and task. Where ventilation cannot control exposure, use appropriate approved respiratory protection under a workplace programme. Provide access to eyewash facilities.

9. Physical and chemical properties

Physical state and appearance	Clear liquid; light yellow to yellow.
Odour / odour threshold	Characteristic / not determined.
Melting or freezing point	Not determined for the mixture.
Boiling point or boiling range	Not determined for the mixture.
Flammability	Organic liquid; can burn on sufficient heating.
Explosion limits	Not determined.
Flash point	Not determined for the mixture.
Autoignition / decomposition temperature	Not determined.
pH	Not applicable to the undiluted nonaqueous mixture.
Kinematic viscosity	Not determined for the mixture.
Solubility	The DMI carrier is water-soluble. Solubility of the 5% mixture depends on dilution and temperature; spilanthol may separate on aqueous dilution.
Partition coefficient	Not determined for the mixture.
Vapour pressure	Not determined for the mixture.
Density / relative density	Not determined for the mixture.
Relative vapour density	Not determined.
Particle characteristics	Not applicable to the supplied liquid.

10. Stability and reactivity

Stable under recommended storage conditions. No hazardous polymerization is expected during normal use. Avoid excessive heat, prolonged exposure to light, and contamination. Keep apart from strong oxidizing agents. Carbon oxides, nitrogen oxides and irritating fumes may form in a fire.

11. Toxicological information

Likely exposure routes are skin and eye contact, inhalation of mist and accidental ingestion. Whole-mixture toxicity studies are not available. Undiluted spilanthol carries skin, eye and respiratory irritation classifications in the cited source; at 5%, these do not trigger the generic additive mixture limits used for this assessment. This does not rule out individual irritation.

No mixture-specific numerical acute toxicity, sensitization, mutagenicity, carcinogenicity, reproductive toxicity, repeated-exposure toxicity or aspiration data are available. No classification for these endpoints is assigned from the available ingredient information. Avoid prolonged contact and inhalation of mist.

12. Ecological information

Aquatic toxicity, degradation, bioaccumulation and mobility have not been determined for this mixture. Mixture-specific PBT, vPvB and endocrine-disruption assessments are not available. Prevent uncontrolled discharge to the environment; carrier data do not establish the environmental behaviour of the whole mixture.

13. Disposal considerations

Collect unused material, absorbents and contaminated packaging for an authorized waste contractor. Follow applicable local waste requirements. Do not pour into drains or surface water. Drain containers before disposal; do not reuse uncleaned containers for food, drink or cosmetics.

14. Transport information

Transport status	Non-dangerous goods. Not regulated as dangerous goods based on the stated composition and available ingredient transport information.
UN number / proper shipping name	Not assigned / not applicable.
ADR / RID	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
IATA / ICAO	Not regulated as dangerous goods.
Hazard class / packing group	Not assigned / not assigned.
Environmental hazards	Not classified as a marine pollutant on the available information.
Special precautions / bulk transport	Use sealed, leakproof packaging protected from heat and damage. Maritime bulk transport is not applicable to the packaged product.

15. Regulatory information

This SDS uses the GHS 16-section structure. Hazard assessment is based on the formulation stated in Section 3 and available component data. Ingredient inventories, cosmetic-use restrictions and market-specific notification requirements must be checked for the intended destination and use. No inventory registration, REACH registration or finished-cosmetic approval is certified by this document. A chemical safety assessment for the mixture has not been carried out.

16. Other information

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Scope: General SDS/MSDS for the nominal 5% spilanthol grade in Dimethyl Isosorbide. This document applies across batches of the same formulation. A change in carrier or composition requires reassessment.

Assessment basis: Supplier formulation and product specification; ingredient SDS information; generic mixture criteria for skin and eye irritation (10%) and respiratory STOT SE 3 (20%). No whole-mixture flash-point or toxicity test report was supplied.

Component hazard statements: H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. These describe undiluted spilanthol and are not mixture label statements.

References: LGC Standards Spilanthol (P) SDS, revised 11 Mar 2026; TCI Europe, Isosorbide Dimethyl Ether SDS, I0390, version 1.1, revised 19 Dec 2025. OSHA 29 CFR 1910.1200 Appendix A, Sections A.2, A.3 and A.8. Public sources accessed 09 Oct 2026.

Public source links:

Spilanthol SDS: View source

Carrier SDS: View source

Mixture classification criteria: View source

This information supports safe handling, storage, transport and disposal of the stated product. It is not a guarantee of product performance or a substitute for assessment of the final formulation.