SAFETY DATA SHEET

PINHONBIO® (-)-alpha-Bisabolol

1. Identification

Parameter	Information
Product identifier	PINHONBIO® (-)-alpha-Bisabolol
INCI name	BISABOLOL
Chemical name	(-)-alpha-Bisabolol / Levomenol
CAS number	23089-26-1
Recommended use	Cosmetic raw material for professional formulation
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 and email	https://pinhoningredients.com/ | info@pinhoningredients.com
Emergency contact	Albert | +86 173 0298 1616 | 09:00-18:00 China Standard Time (UTC+8) | Chinese and English | Not a 24-hour service

2. Hazard Identification



GHS09 and GHS07

Parameter	Information
GHS classification	Skin Sensitization Category 1; Aquatic Chronic Category 2
Signal word	WARNING
Hazard pictograms	GHS07 (exclamation mark); GHS09 (environment)
Hazard statements	H317: May cause an allergic skin reaction. H411: Toxic to aquatic life with long lasting effects.
Other hazards	Mist or heated vapors may irritate. Liquid spills create a slipping hazard. Heating increases fire risk.
PBT/vPvB and endocrine effects	No assessment for the supplied commercial product is provided

Skin Sensitization Category 1 and Aquatic Chronic Category 2 are adopted for this (-)-alpha-Bisabolol product grade using the supplier and substance references in Section 16.

P261 Avoid breathing mist or vapors. P272 Contaminated work clothing must not leave the workplace. P273 Avoid release to the environment. P280 Wear protective gloves and eye protection. P302+P352 Wash affected skin with plenty of water. P333+P313 Seek medical advice for irritation or rash. P362+P364 Remove and wash contaminated clothing. P391 Collect spillage. P501 Dispose of contents and containers through an authorized waste service.

3. Composition and Information on Ingredients

Component	CAS number	Product content specification
(-)-alpha-Bisabolol	23089-26-1	≥98% (GC external-standard assay)

Chemical characterization: Substance. The ≥98% assay is determined by GC-FID external-standard quantitation. Chromatographic purity is ≥98% by peak-area normalization; it is a separate analytical specification, not another composition fraction. No additional ingredient identities have been declared.

4. First Aid Measures

Parameter	Information
Inhalation	Move to fresh air and keep at rest. Obtain medical attention for persistent symptoms or breathing difficulty.
Skin contact	Remove contaminated clothing. Wash thoroughly with soap and water. Seek medical advice if irritation or rash occurs.
Eye contact	Rinse cautiously with running water for at least 15 minutes. Remove contact lenses if easy to do; continue rinsing. Obtain medical attention if symptoms persist.
Ingestion	Rinse mouth if conscious. Do not induce vomiting. Seek medical advice and show this SDS. Never give anything by mouth to an unconscious person.
Symptoms and effects	Potential skin sensitization and irritation after contact; delayed rash may occur. No product-specific clinical data are supplied.
Advice to physician	Treat symptomatically; no product-specific antidote information is supplied.

5. Fire Fighting Measures

Use water spray, foam, dry powder or carbon dioxide appropriate to the surrounding fire. Avoid a direct water jet that spreads burning liquid. Keep away from ignition sources and excessive heating.

Combustion may release carbon monoxide, carbon dioxide and irritating vapors. Wear self-contained breathing apparatus and protective clothing for significant fires. Cool exposed containers where safe and contain contaminated fire water.

6. Accidental Release Measures

Ventilate the area and remove ignition sources where safe. Wear suitable gloves and eye protection. Avoid contact with spilled liquid and warn others of the slipping hazard.

Prevent entry into drains, soil and surface water. Dike larger spills and recover into compatible, labeled containers. Absorb small spills with inert liquid-binding material. Collect contaminated absorbent for disposal; do not wash spills into drains.

7. Handling and Storage

Avoid skin and eye contact, ingestion and inhalation of mist or heated vapor. Use suitable ventilation for transfer and heating. Wash after handling; do not eat, drink or smoke in the work area. Prevent environmental release.

Keep tightly closed in a cool, dry, shaded place. Protect from direct sunlight, heat and ignition sources. Keep separate from strong oxidizing agents and foodstuffs.

8. Exposure Controls and Personal Protection

Parameter	Information
Control parameters	No product-specific occupational exposure limit is supplied. Assess local requirements and actual exposure.
Engineering controls	General ventilation; local exhaust for mist-generating or heated operations. Provide eyewash and washing facilities.
Eye protection	Safety glasses with side shields; use goggles for splash-prone operations.
Hand and body protection	Chemical-resistant gloves and protective work clothing. Select material and breakthrough time for actual exposure.
Respiratory protection	If ventilation cannot control mist or vapor, use a suitable approved respirator selected through workplace exposure assessment.
Environmental protection	Contain transfer areas and prevent discharge to water, soil or drains.

9. Physical and Chemical Properties

Standing product specifications and literature reference properties are identified below. Literature properties are not release specifications.

Parameter	Information
Physical state	Viscous liquid
Color	Colorless to yellowish
Odor	Characteristic
Odor threshold	Not determined
Melting point	Literature reference: below -20°C (BASF); supplied-product value not measured
Boiling point	Literature reference: 300.2°C at 1,013.3 hPa (BASF)
Flammability	Supplied-product test unavailable; combustible on sufficient heating
Flash point	Literature reference: 143°C, ISO 3679 (BASF)
Explosion limits	Not determined for the supplied product
Autoignition temperature	Literature reference: 245°C, DIN 51794 (BASF)
Decomposition temperature	Not determined for the supplied product
pH	Not applicable to the neat, poorly water-soluble liquid
Kinematic viscosity	Not determined for the supplied product
Water solubility	Literature reference: 22 mg/L at 20°C (BASF)
Partition coefficient	Literature reference: log Pow 5.5 at 25°C, OECD 117 (BASF)
Vapor pressure	Not determined for the supplied product
Relative density	0.920-0.936 (20°C/4°C)
Relative vapor density	Not determined
Refractive index	1.485-1.497 at 20°C
Particle characteristics	Not applicable to a liquid
Formula and molecular weight	C15H26O | 222.37 g/mol

10. Stability and Reactivity

Stable under recommended storage and handling conditions. Avoid excessive heat, sparks, flames and strong oxidizing agents. No dangerous reaction is known under normal conditions of use in the cited substance references.

Severe heating or combustion may release carbon monoxide, carbon dioxide and irritating vapors.

11. Toxicological Information

Relevant exposure routes are skin or eye contact, inhalation of mist or heated vapors, and accidental ingestion. May cause an allergic skin reaction (H317). No product-specific LD50, LC50 or acute toxicity estimate is available.

Product-specific data are not available for acute toxicity, irritation, mutagenicity, carcinogenicity, reproductive toxicity, target-organ toxicity or aspiration hazard. The skin-sensitization classification and protective measures in Sections 2 and 8 apply.

12. Ecological Information

Toxic to aquatic life with long lasting effects (H411). Prevent discharge to drains, soil and waterways. Quantitative aquatic-toxicity data for the supplied product are not available.

Product-specific data for persistence, degradability, bioaccumulation and mobility are not available. A product-specific PBT/vPvB or endocrine-disruption assessment has not been provided.

13. Disposal Considerations

Collect unused product, spill residues and contaminated packaging for disposal through an authorized waste contractor under local requirements. Do not discharge to drains or waterways. Do not reuse contaminated containers for food or consumer products.

14. Transport Information

Parameter	Information
Transport classification	Environmentally hazardous substance, liquid; DOT / ADR / RID / IMDG / IATA: Class 9, Packing Group III
UN number	UN 3082
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((-)-alpha-Bisabolol)
Transport class	9
Packing group	III
Environmental hazards	Environmentally hazardous; marine pollutant
Sea emergency schedule	F-A; S-F
Special precautions	Use compatible, securely closed packaging. Protect against leakage, heat and package damage.
Small-package provisions	Mode-specific exceptions may apply when quantity and packaging conditions are met. Determine applicability using the net volume per inner or single packaging and the shipment mode.
Bulk maritime transport	Not applicable to the packaged product

15. Regulatory Information

INCI: BISABOLOL. CAS: 23089-26-1. No PINHONBIO-specific REACH registration, TSCA inventory verification or chemical safety assessment is supplied. External suppliers' registration details are not adopted as company declarations.

Apply workplace, chemical-inventory and destination-market requirements relevant to the intended use. This SDS does not certify REACH registration, chemical-inventory compliance or finished-cosmetic approval.

16. Other Information

Parameter	Information
Preparation date and version	09 Oct 2026 | Version 2.0 | Product standard edition
Supplier	Shaanxi Pinhon Biotechnology Co., Ltd.
Information basis	Product quality specification; confirmed GC-FID analytical method; supplier and substance safety references

Reference basis: PINHONBIO product quality specification and supplied GC-FID method (Q/YJNS 001-2023); Yili Jiangning Biotechnology SynLevo TDS dated 08 Jul 2025 and MSDS Version 2.0 revised 20 Aug 2024; Cayman Chemical (-)-alpha-Bisabolol SDS item 9002495, revised 10 Oct 2025 (https://cdn.caymanchem.com/cdn/msds/9002495m.pdf); BASF Isobionics Natural (-)-alpha-Bisabolol 99 SDS product 30833160, revised 03 Nov 2025 (download.basf.com).

Version 2.0: standing product-grade edition; batch data removed and hazard labeling standardized. This sheet applies across batches of the described grade. Revise it when composition, specifications, hazard information or applicable requirements change. Abbreviations: GC, gas chromatography; FID, flame ionization detector; IR, infrared spectroscopy; GHS, Globally Harmonized System; PBT, persistent bioaccumulative and toxic; vPvB, very persistent and very bioaccumulative.