SAFETY DATA SHEET

PINHONBIO® Kavain

1. Identification

Product / CAS number	PINHONBIO® Kavain / 3155-48-4
Identified use	Raw material for professional cosmetic formulation development.
Supplier	Shaanxi Pinhon Biotechnology Co., Ltd. Room 704, Unit 2, Building 1, I-Duhui, No. 11 Tangyan South Road, Yanta District, Xi'an, Shaanxi, China
Technical contact	tech@pinhoningredients.com
Emergency contact	Albert Zhao | +86 173 0298 1616 09:00–18:00 China Standard Time (UTC+8). Outside these hours contact local emergency services or a poison center.

2. Hazard identification

GHS classification Acute toxicity, oral, Category 4. Acute toxicity, dermal and inhalation, Category 3. Skin irritation, Category 2. Acute aquatic hazard, Category 1.



DANGER

Hazard statements H302 Harmful if swallowed. H311 Toxic in contact with skin. H331 Toxic if inhaled. H315 Causes skin irritation. H400 Very toxic to aquatic life.

Prevention Avoid breathing dust and use local exhaust ventilation. Wear protective gloves, clothing and eye protection. Wash exposed skin after handling. Avoid release to the environment.

Response After inhalation or skin contact, obtain immediate medical advice. See Section 4. Collect spilled material. Store locked up and send waste to an authorized hazardous-waste facility.

3. Composition and information on ingredients

Chemical name	CAS number	Formula	Weight %
Kavain	3155-48-4	$C_{14}H_{14}O_3$	100%

4. First-aid measures

Inhalation Move to fresh air. Keep at rest and immediately call a poison center or physician. If breathing stops, trained responders should provide assisted ventilation using a barrier device.

Skin Immediately remove contaminated clothing and wash thoroughly with soap and water. Call a poison center or physician immediately. Wash clothing before reuse.

Eyes Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Seek medical attention if symptoms persist.

Ingestion Rinse mouth. Call a poison center or physician if unwell. Do not induce vomiting unless directed by medical personnel. Give nothing by mouth to an unconscious person.

Medical attention Provide supportive care according to exposure route and symptoms. Show this SDS to the treating clinician.

5. Firefighting measures

Use water mist, foam, dry extinguishing powder or carbon dioxide. Heat and combustion may produce carbon oxides and irritating smoke. Use self-contained breathing apparatus and full protective clothing. Contain firefighting runoff to protect waterways.

6. Accidental release measures

Isolate the area and keep unprotected personnel away. Ventilate and avoid generating airborne dust. Cover drains. Wearing the protection in Section 8, collect powder with a low-dust method into a closed, labeled waste container. Avoid compressed air and dry sweeping. Collect contaminated cleaning materials for disposal.

7. Handling and storage

Handling Open containers under local exhaust. Use enclosed transfer for larger quantities. Keep food and drink out of the work area. Avoid dust deposits and ignition sources.

Storage Keep locked up, tightly closed and dry in a well-ventilated area protected from strong light and heat. Keep away from strong oxidizers.

8. Exposure controls and personal protection

Exposure limits No substance-specific occupational exposure limit was identified in the references listed in Section 16.

Engineering controls Provide enclosed weighing or source extraction. Provide handwashing and eyewash facilities near the work area.

Personal protection Wear chemical-resistant gloves, close-fitting goggles and protective clothing. Select glove material and change intervals for the task and any solvents used. If airborne exposure cannot be controlled, use an approved respirator selected under a workplace respiratory protection program. Unknown or emergency concentrations require supplied-air protection.

9. Physical and chemical properties

Form, color and odor	Off-white solid powder with a characteristic odor.
Melting range	140–145 °C (PINHONBIO specification).
Solubility	Reported soluble in methanol and chloroform. No quantitative water-solubility value is available for this grade.
pH and kinematic viscosity	Not applicable to the dry solid.
Other properties	No grade-specific values for boiling point, vapor pressure, density, flash point, flammability limits, ignition or decomposition temperature, partition coefficient or particle size.

10. Stability and reactivity

Stable under the recommended storage conditions. Avoid heat, strong light, dispersal of dust and strong oxidizing agents. No hazardous reaction is known during normal handling. Thermal decomposition may release carbon oxides.

11. Toxicological information

Exposure can occur through inhalation of dust, contact with skin and accidental ingestion. The hazard assessment identifies acute toxicity by all three routes and skin irritation. Grade-specific oral and dermal LD50 values and an inhalation LC50 are unavailable. There are insufficient grade-specific data to characterize sensitization, mutagenicity, carcinogenicity, reproductive toxicity, target-organ effects or aspiration hazard.

12. Ecological information

Very toxic to aquatic life. Prevent powder, cleaning water and firefighting runoff from reaching drains or waterways. Quantitative aquatic toxicity, degradation, bioaccumulation and soil mobility data are unavailable for this grade.

13. Disposal considerations

Keep rejected powder, spill residues and contaminated packaging in labeled, closed containers. Arrange disposal through a licensed hazardous-waste contractor in accordance with local rules. Do not discharge waste to sewers.

14. Transport information

Transport basis	Reference classification for kavain, CAS 3155-48-4 [1]. Confirm applicability to the consignment with a dangerous-goods specialist before dispatch.
UN number	UN 2811
Proper shipping name	TOXIC SOLID, ORGANIC, N.O.S. (Kavain)
Class / packing group	6.1 / II (IMDG and IATA reference classification)
Environmental hazards	Hazardous to the aquatic environment.
Special precautions	Use compatible, closed packaging and protect from damage, heat and moisture.
Bulk maritime transport	Not applicable to the packaged product.

15. Regulatory information

This SDS uses GHS hazard communication for occupational handling of the raw material. Cosmetic ingredient eligibility, finished-product safety assessment and labeling depend on the intended use and destination market.

16. Other information

Date and revision 14 November 2026 | Version 1.0.

Classification basis The GHS and transport entries use published substance-level data for kavain under the stated CAS number. Shipment-specific classification and testing of this commercial grade have not been documented.

[1] Cayman Chemical. (±)-Kavain, item 39921. Safety Data Sheet, 15 December 2025, Sections 2 and 14. cdn.caymanchem.com/cdn/msds/39921m.pdf

[2] Sigma-Aldrich. DL-Kavain, product 05790585. Safety Data Sheet, 29 April 2025. [3] PINHONBIO Kavain quality specification and Certificate of Analysis.