Safety Data Sheet

PINHONBIO® Tetrahydrocurcumin

General grade | Version 1.0 | 30 Oct 2026

1. Identification

Product identifier	PINHONBIO® Tetrahydrocurcumin
INCI / CAS number	TETRAHYDROCURCUMIN / 36062-04-1
Synonym	Tetrahydrodiferuloylmethane
Recommended use	Cosmetic raw material for professional formulation and manufacturing.
Supplier	SHAANXI PINHON BIOTECH 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 19829300704 | info@pinhoningredients.com | www.pinhoningredients.com
Emergency information	Contact the supplier for product information. For urgent medical assistance contact local emergency services or a poison centre. The supplier contact is not a dedicated 24-hour emergency service.

2. Hazard identification

GHS classification: Not classified as hazardous on the basis of the available information and weight-of-evidence assessment for the supplied material.

Label elements: No GHS hazard pictogram, signal word or hazard statement is required on this classification basis.

Other hazards: Avoid swallowing and unnecessary skin or eye contact. Dust may irritate the eyes, skin and respiratory tract. The organic powder is combustible; fine airborne dust may form an ignitable dust cloud under suitable conditions. Product-specific dust explosibility has not been measured.

Good handling practice: Control dust, maintain ventilation, wear suitable gloves and eye protection, and keep away from heat, sparks and open flame. Wash hands after handling.

3. Composition and information on ingredients

Substance	CAS number	Content specification
Tetrahydrocurcumin	36062-04-1	≥96% (assay)

Molecular formula: $C_{21}H_{24}O_6$. Molecular weight: 372.42 g/mol. Chemical name: 1,7-bis(4-hydroxy-3-methoxyphenyl)heptane-3,5-dione.

The stated assay is a minimum quality limit for the supplied powder. Loss on drying is controlled at <2% and residual ethanol at <2,000 ppm. These are separate quality parameters; no fixed composition is assigned to the balance.

4. First aid measures

Inhalation	Move to fresh air and keep comfortable for breathing. Seek medical advice if coughing, breathing discomfort or other symptoms persist. Obtain urgent medical assistance for severe symptoms.
Skin contact	Remove contaminated clothing and wash thoroughly with soap and water. Seek medical advice if irritation persists. Wash contaminated clothing before reuse.
Eye contact	Rinse cautiously with clean water for at least 15 minutes, including under the eyelids. Remove contact lenses if easy to do. Seek medical attention if redness, pain or visual disturbance persists.
Ingestion	Rinse the mouth. Do not induce vomiting unless directed by medical personnel. Give nothing by mouth to an unconscious person. Contact a doctor or poison centre if unwell or after significant accidental ingestion.
Symptoms and treatment	Dust exposure may cause eye or airway discomfort, coughing or skin irritation. Treat according to symptoms. Show this SDS to medical personnel.

5. Firefighting measures

Use water spray, foam, dry chemical or carbon dioxide as appropriate for the surrounding fire. Avoid a forceful water jet that can spread powder. Burning may release carbon monoxide, carbon dioxide and irritating fumes. Firefighters should wear full protective clothing and self-contained breathing apparatus. Contain contaminated firefighting water.

6. Accidental release measures

Ventilate the area, control ignition sources and keep unnecessary personnel away. Wear eye protection, suitable gloves and respiratory protection if dust cannot be controlled. Collect carefully using dust-controlled mechanical methods or a vacuum suitable for combustible dust, and place in closed, labelled containers. Avoid compressed air and uncontrolled dry sweeping. Prevent release into drains and waterways.

7. Handling and storage

Minimize dust generation and accumulation during weighing, transfer and mixing. Use local extraction where necessary. Keep away from ignition sources and strong oxidizing agents. Apply appropriate grounding and dust-control measures for bulk processing. Do not eat, drink or smoke in handling areas.

Store tightly closed in original packaging in a cool, dry, ventilated place, protected from strong light and heat. Protect from moisture and contamination. Shelf life: 24 months in unopened original packaging under recommended storage conditions.

8. Exposure controls and personal protection

No substance-specific occupational exposure limit is identified in the cited safety references. Apply applicable local airborne-dust limits and assess actual workplace exposure. Provide ventilation, local extraction as needed and access to an eyewash.

Wear safety goggles, suitable protective gloves and work clothing. If ventilation does not adequately control dust, use an approved particulate respirator selected for the task and exposure level. Wash hands before breaks and after handling. Keep contaminated clothing out of eating areas.

9. Physical and chemical properties

Property	Information
Physical state / appearance	White to off-white powder
Odour / odour threshold	Characteristic / not determined
Melting range	85-100 °C (published substance reference; not a release specification)
Boiling point / decomposition temperature	Not determined
Flammability	Combustible organic solid; may burn when exposed to fire.
Flash point	Not applicable to the solid powder
Explosion limits / autoignition temperature	Not determined; avoid fine dust clouds and ignition sources
pH	Not specified for this grade
Water solubility	Practically insoluble / low water solubility
Other solubility	Solubility in organic solvents is solvent- and concentration-dependent.
Partition coefficient log Kow	Not determined for this grade
Vapour pressure / relative vapour density	Not determined / not applicable to the solid
Density / bulk density	Not specified for this grade
Kinematic viscosity	Not applicable to the solid
Particle characteristics	Not less than 98% passes through a 100-mesh sieve (quality specification)

10. Stability and reactivity

Stable under recommended storage and handling conditions. No hazardous polymerization is expected. Avoid strong oxidizing agents, excessive heat, ignition sources and dust accumulation. Combustion or thermal decomposition can generate carbon monoxide, carbon dioxide and other irritating fumes.

11. Toxicological information

Likely exposure routes are dust inhalation, skin or eye contact and accidental ingestion. Dust may cause local irritation. Avoid repeated or prolonged exposure and do not swallow the material.

No product-specific LD50 or LC50 values are available. Available substance information does not establish a classification for acute toxicity, skin corrosion or irritation, serious eye damage or irritation, sensitization, germ-cell mutagenicity, carcinogenicity, reproductive toxicity, specific target-organ toxicity or aspiration hazard under the assessment used in Section 2. Absence of classification does not mean that uncontrolled exposure is safe.

Published data are reference information for the substance. They do not constitute toxicological tests performed on PINHONBIO batches or a safety assessment of a finished cosmetic formulation.

12. Ecological information

Quantitative aquatic toxicity, biodegradation, bioaccumulation and soil-mobility data are not available for this grade. Do not release bulk material to soil, drains or waterways. PBT/vPvB and endocrine-disrupting properties: No product-specific assessment data available.

13. Disposal considerations

Collect waste in closed, labelled containers. Dispose of product and contaminated packaging in accordance with applicable local requirements through an appropriate waste contractor. Do not discharge to drains. Empty containers may retain powder residues and should be handled with the same precautions.

14. Transport information

US DOT / IMDG / IATA	Not regulated as dangerous goods.
UN number / proper shipping name	Not applicable.
Transport hazard class / packing group	Not applicable.
Marine pollutant	No, based on available substance information.
Special precautions	Use tightly closed inner packaging and a protective outer container. Protect from moisture, heat and package damage.
Maritime transport in bulk	Not intended for bulk carriage under IMO instruments.

15. Regulatory information

This SDS uses the 16-section format for professional raw-material handling. TETRAHYDROCURCUMIN is an INCI name with antioxidant function. Ingredient naming does not by itself establish approval for every use or market. The finished-product manufacturer must comply with applicable cosmetic, chemical, workplace and transport requirements, including any market-specific conditions on use.

16. Other information and references

Issue date: 30 Oct 2026 | Version 1.0 | General ≥96% grade. Prepared from the PINHONBIO product specification and publicly available substance safety information. No batch-specific analytical results are included.

PhytoLab: Tetrahydrocurcumin SDS, article 82665, 13 Dec 2023.

Carl Roth: Tetrahydro curcumin ≥95% natural, SDS 2XK3, 15 Jul 2025.

LGC Standards: Tetrahydro Curcumin SDS, TRC-T293385-5MG, 13 Nov 2024.

Cayman Chemical: Tetrahydrocurcumin SDS, item 11757, 25 Jun 2025.

PubChem: Tetrahydrocurcumin, CID 124072 — identity and substance information.

COSMILE Europe: TETRAHYDROCURCUMIN — ingredient information.

GHS: Globally Harmonized System; CAS: Chemical Abstracts Service; LD50/LC50: median lethal dose/concentration; PBT/vPvB: persistent, bioaccumulative and toxic / very persistent and very bioaccumulative. The information describes safe handling of the supplied raw material and is not a guarantee of finished-product performance or safety.