L-Ergothioneine

1. Identification

Product	L-Ergothioneine; CAS 497-30-3
Scope	The identified, high-purity solid grade only. This sheet does not cover solutions, diluted preparations or carrier-containing blends.
Use	Professional ingredient handling and formulation. This sheet is occupational safety information, not a therapeutic or consumption instruction.
Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Address	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone / email	+86-21-54265599 / sales@zxchem.com.cn
Emergency contact	ZXCHEM office: +86-21-54265599, office hours, China time (UTC+8). This is not a 24-hour emergency service. For urgent exposure, contact local emergency medical services or a poison center.

2. Hazards Identification

Classification	Skin irritation, Category 2; eye irritation, Category 2A; specific target organ toxicity, single exposure, Category 3 (respiratory irritation).
Label elements	Warning; GHS07 (exclamation mark).
Hazard statements	H315: Causes skin irritation. H319: Causes serious eye irritation. H335: May cause respiratory irritation.
Precautions	Avoid dust inhalation and contact with eyes or skin. Wear protective equipment. Wash after handling. Keep food and drink outside the work area.
Other hazards	Powder handling can produce airborne dust. Assess dust accumulation and ignition sources in bulk handling.

3. Composition / Information on Ingredients

Component	L-Ergothioneine
CAS No.	497-30-3
Supplied specification	At least 99.5%
Composition scope	Purified solid; no carrier or solvent formulation is included in this sheet. Analytical impurities are controlled by the batch specification.

4. First Aid Measures

Inhalation	Move to fresh air without exposing the rescuer. Keep at rest. Seek medical care if symptoms occur.
Skin	Remove contaminated clothing. Wash thoroughly with water and soap. Obtain medical advice for irritation or rash.
Eyes	Rinse gently with water for several minutes. Remove contact lenses if easy; continue rinsing. Seek medical care if discomfort persists.
Swallowing	Rinse mouth. Do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek medical advice.

5. Fire-Fighting Measures

Extinguishing media	Select water spray, dry chemical, foam or carbon dioxide to suit the surrounding fire.
Fire hazards	Heating or burning organic material can release harmful combustion gases. Avoid breathing smoke.
Protection	Firefighters require protective clothing and self-contained breathing apparatus; contain contaminated firewater.

6. Accidental Release Measures

Personal precautions	Isolate the spill area. Limit access to trained personnel. Avoid airborne dust and direct contact. Use the protection in Section 8.
Containment / cleanup	Collect carefully with equipment appropriate for fine powders. Put waste in a closed, labeled container. Do not disperse dust with compressed air.
Environment	Prevent entry into drains, soil and surface water.

7. Handling and Storage

Handling	Minimize dust during opening, weighing and transfer. Keep containers closed between uses. Wash hands before breaks.
Storage	Keep tightly closed, dry and protected from light. Use the storage temperature stated on the batch label; cold storage is recommended for long-term quality preservation.
Segregation	Keep separate from strong oxidizers and incompatible chemicals.

8. Exposure Controls / Personal Protection

Exposure limits	No product-specific occupational limit is supplied here. Apply relevant local workplace standards.
Engineering controls / PPE	Use enclosed transfer or local exhaust to limit dust. Select protective gloves, goggles and work clothing for the task. Use an approved particulate respirator when ventilation does not adequately control exposure; follow local occupational limits and respiratory protection procedures.
Hygiene	Keep contaminated workwear separate. Provide an eye-rinse facility where powder is handled.

9. Physical and Chemical Properties

Appearance	White to off-white solid powder
Molecular weight	229.30 g/mol
Formula	C9H15N3O2S
Flash point	Not applicable to the supplied solid
Other properties	Boiling point, vapor pressure, partition coefficient, autoignition temperature and decomposition temperature: no quantitative data reported. Viscosity does not apply to this solid.

10. Stability and Reactivity

Stability	Maintain the labeled storage conditions and protect the container from damage.
Conditions to avoid	Excessive heat, contamination, moisture where relevant, and uncontrolled dust accumulation.
Incompatibilities	Strong oxidizing agents
Decomposition	Combustion can release carbon oxides and other harmful gases; do not inhale fumes.

11. Toxicological Information

Health effects	May irritate skin, eyes and respiratory tract. Quantitative acute toxicity and long-term endpoint values are not reported.
Exposure routes	Dust inhalation, skin and eye contact, and unintended ingestion
Further endpoints	Numerical carcinogenicity, reproductive toxicity and repeated-dose endpoints are not reported for the supplied batch.

12. Ecological Information

Environmental precautions	Avoid uncontrolled discharge. Collect spills and dispose of residues through an authorized route.
Ecotoxicity / fate	Quantitative aquatic toxicity, persistence, bioaccumulation and soil mobility data are not reported for the supplied batch.

13. Disposal Considerations

Product waste	Dispose through an authorized waste contractor according to the local classification of the waste. Do not pour residues into drains.
Packaging	Keep contaminated packaging closed and labeled. Do not reuse for food or drink; apply local disposal requirements.

14. Transport Information

Classification	Not regulated as dangerous goods for the supplied solid grade under the reviewed transport classifications.
UN number / class / packing group	Not assigned
Sea / air transport	Non-dangerous goods under IMDG and IATA
Precautions	Keep packages intact, sealed and dry; prevent contamination and movement during transport.

15. Regulatory Information

Safety classification	Use the GHS hazard and transport classifications in Sections 2 and 14 for this grade.
Market requirements	Chemical inventory, food, feed, cosmetic or pharmaceutical authorizations are separate from this SDS. The importer and user must meet the requirements applicable to the destination and intended use.

16. Other Information

Revision	2026.2; revision date 2026-10-11
Use of this sheet	Prepared for occupational handling of the identified solid grade. Users must evaluate their process and exposure controls. This sheet is not a batch COA and does not describe different formulations.
Abbreviations	GHS: Globally Harmonized System; IMDG: maritime dangerous goods code; IATA: air transport dangerous goods regulations; PPE: personal protective equipment.

Supplier Contact

Supplier	Hainan Zhongxin Chemical Co., Ltd. (ZXCHEM)
Shanghai office	Room 1001, Building A, Caohejing Center, No. 1520 Gumei Road, Xuhui District, Shanghai, China
Telephone	+86-21-54265599
Email	sales@zxchem.com.cn
Website	www.zxchem.com