西安绿天生物技术有限公司
Plamed Green Science Group

MATERIAL SAFETY DATA SHEET

Section 1 Description

Product Name	Ergothioneine
Manufacturer/Supplier	Plamed Green Science Group
Address	69# Jinye Rd., High-Tech Zone, Xi'an, P. R. China.
Phone Number	+ 86-29-88215350

Section 2 Ingredients/Identity Information

Components	**Other Name**	**CAS Number**	**INCI Name**
Ergothioneine	L-(+)-Ergothioneine	497-30-3	ERGOTHIONEINE

Section 3 Possible Hazards

- Classification of the substance or mixture:

Not classified.

- GHS label elements, including precautionary statements

Pictogram(s): No symbol

Signal word: No signal word

Hazard statement(s): none

Precautionary statement(s)- Prevention: none

Response: none

Storage: none.

Disposal: none.

- Other hazards which do not result in classification: none.

Section 4 First Aid Measures

- Description of necessary first-aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse with plenty of water (remove contact lenses if easily possible).

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

- Most important symptoms/effects, acute and delayed: no data available
- Indication of immediate medical attention and special treatment needed, if necessary

/SRP:/ Basic treatment: Establish a patent airway (oropharyngeal or nasopharyngeal airway, if needed). Suction if necessary. Watch for signs of respiratory insufficiency and assist ventilations if needed. Administer oxygen by nonrebreather mask at 10 to 15 L/min. Monitor for pulmonary edema and treat if necessary ... . Monitor for shock and treat if necessary ... . Anticipate seizures and treat if necessary ... . For eye contamination, flush eyes immediately with water. Irrigate each eye continuously with 0.9% saline (NS) during transport ... . Do not use emetics. For ingestion, rinse mouth and administer 5 ml/kg up to 200 ml of water for dilution if the patient can swallow, has a strong gag reflex, and does not drool ... . Cover skin burns with dry sterile dressings after decontamination ... . /Poisons A and B/

Section 5 Fire-fighting Measures

- Extinguishing media

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- Specific hazards arising from the chemical: no data available
- Special protective actions for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary.

Section 6 Accidental Release Measures

- Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

- Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

- Methods and materials for containment and cleaning up

Pick up and arrange disposal. Sweep up and shovel. Keep in suitable, closed containers for disposal

Section 7 Handling and Storage

- Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

- Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Section 8 Control Methods

- Control parameters

Occupational Exposure limit values: no data available

Biological limit values: no data available

- Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

- Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique(without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection: Wear dust mask when handling large quantities.

Thermal hazards: no data available

Section 9 Physical and Chemical Properties (Typical)

Physical state	Fine powder

Color	White
Odor	Characteristic
Melting point/ freezing point	no data available.
Boiling point or initial boiling point and boiling range	no data available.
Flammability	no data available.
Lower and upper explosion limit flammability limit	no data available
Flash point	no data available.
Auto-ignition temperature	no data available
Decomposition temperature	no data available
pH	no data available
Kinematic viscosity	no data available
Solubility	Water soluble
Partition coefficient n-octanol/water (log value)	no data available
Vapor pressure	no data available
Density and/or relative density	no data available.
Relative vapor density	no data available
Particle characteristics	no data available

Section 10 Stability and Reactivity

- Reactivity: no data available
- Chemical stability: Stable under recommended storage conditions.
- Possibility of hazardous reactions: no data available
- Conditions to avoid：no data available
- Incompatible materials：no data available
- Hazardous decomposition products：no data available

Section 11 Toxicological Information

- Acute toxicity

Oral: no data available

Inhalation: no data available

Dermal: no data available

Skin corrosion/irritation: no data available

Serious eye damage/irritation: no data available

Respiratory or skin sensitization: no data available

Germ cell mutagenicity: no data available

Carcinogenicity: no data available

Reproductive toxicity: no data available

STOT-single exposure: no data available

STOT-repeated exposure: no data available

Aspiration hazard: no data available

Section 12 Ecological Information

- Toxicity

Toxicity to fish: no data available

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

- Persistence and degradability: no data available.
- Bioaccumulative potential: no data available
- Mobility in soil: no data available
- Other adverse effects: no data available

Section 13 Disposal Considerations

- Disposal methods

Product: The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems.

Contaminated packaging: Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

Section 14 Transport Information

- UN Number:

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

- UN Proper Shipping Name:

ADR/RID: unknown

IMDG: unknown

IATA: unknown

- Transport hazard class(es):

ADR/RID: No dangerous goods

IMDG: No dangerous goods

IATA: No dangerous goods

- Packing group, if applicable:

ADR/RID: No dangerous goods

IMDG: No dangerous goods

IATA: No dangerous goods

- Environment hazards:

ADR/RID: no

IMDG: no

IATA: no

- Special precautions for user: no data available
- Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: no data available

Section 15 Regulatory Information

Safety, health and environmental regulations specific for the product in question

Chemical name	Common names and synonyms	CAS number	EC number
Ergothioneine	Ergothioneine	497-30-3	207-843-5
European Inventory of Existing Commercial Chemical Substances (EINECS)			Listed.
EC Inventory			Not Listed.
United States Toxic Substances Control Act (TSCA) Inventory			Not Listed.
China Catalog of Hazardous chemicals 2015			Not Listed.
New Zealand Inventory of Chemicals (NZIoC)			Not Listed.
Philippines Inventory of Chemicals and Chemical Substances (PICCS)			Not Listed.
Vietnam National Chemical Inventory			Not Listed.
Chinese Chemical Inventory of Existing Chemical Substances (China IECSC)			Not Listed

Section 16 Other Information

Disclaimer: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. We as supplier shall not be held liable for any damage resulting from handling or from contact with the above product.

Invalid date: March 4, 2025

For and on behalf of
PLAMED GREEN SCIENCE GROUP
Authorized signature(s)