XI'AN LAND NUTRA CO.,LTD
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Yanta District, Xi'an City, Shaanxi Province,China

# MATERIAL SAFETY DATA SHEET

## 1: Product Identification

Product Name: L-Ergothioneine powder

CAS Number:497-30-3

Specification：98%

Recommended Use: Dietary supplement ingredient

Manufacturer: XI'AN LAND NUTRA CO.,LTD

## 2: Hazard Identification

**Label Elements:**

GHS Pictograms: None

Signal Word: None

Hazard Statements: None

**Precautionary Statements:**

P261: Avoid breathing dust

P264: Wash hands thoroughly after handling

P271: Use only in well-ventilated areas

P280: Wear protective gloves/eye protection

**Other Hazards:**

May form combustible dust-air mixtures

Dust may cause mechanical irritation to eyes and respiratory tract

Not expected to present significant hazards under normal conditions of use3: Composition and Ingredient Information

Active Constituents: Withanolides

## 3. Composition / Information On Ingredients

| Component | CAS No. | Concentration | Classification |
|---|---|---|---|
| L-Ergothioneine | 497-30-3 | ≥98% | Not hazardous |

## 4: First Aid Measures

**General Advice:**
Remove to fresh air. If symptoms persist, seek medical advice.

**Inhalation:**

Move to fresh air immediately
If breathing is difficult, give oxygen
If not breathing, give artificial respiration
Seek medical attention if irritation persists

**Skin Contact:**

Remove contaminated clothing
Wash with plenty of soap and water
If irritation develops, seek medical attention

**Eye Contact:**

Rinse immediately with plenty of water for 15 minutes
Hold eyelids open
Remove contact lenses if present
Seek immediate medical attention

**Ingestion:**

Rinse mouth with water
Do NOT induce vomiting
Seek medical attention immediately

Show this MSDS to physician

**Notes to Physician:**

Symptomatic and supportive treatment
No specific antidote known
Consider potential interactions with sedatives and thyroid medications

## 5: Fire Fighting Measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical powder, foam

Hazardous Decomposition Products: Nitrogen oxides

Protective Equipment: Self-contained breathing apparatus recommended

## 6: Accidental Release Measures

Personal Precautions: Avoid dust generation

Environmental Precautions: Prevent material from entering drainage systems

Cleanup Methods: Collect mechanically and dispose according to regulations

## 7: Handling and Storage

Handling: Avoid unnecessary dust exposure

Storage Conditions: Store in a cool, dry place, protected from light

## 8: Exposure Control and Personal Protection

**Engineering Controls:**
Local exhaust ventilation
Dust collection systems

**Exposure Limits:**
Total dust: 10 mg/m³ (8-hr TWA)
Respirable dust: 3 mg/m³ (8-hr TWA)

**Personal Protective Equipment:**

Respiratory: N95 dust mask if needed
Hands: Nitrile gloves
Eyes: Safety glasses
Body: Lab coat

## 9: Physical and Chemical Properties

| Property | Specification | Test Method |
|---|---|---|
| Appearance | White to off-white crystalline powder | Visual |
| Odor | Characteristic, earthy | Organoleptic |
| Residue on Ignition | ≤ 0.1% | 0.05% |
| Bulk Density | 0.4-0.6 g/cm³ | USP <616> |
| Particle Size | 90% < 150 μm | Laser diffraction |
| Loss on Drying | ≤ 8.0% | USP <731> |

## 10: Stability and Reactivity

**Stability:**

Stable under recommended conditions

Conditions to Avoid:

High temperature (>40°C)

High humidity (>75% RH)

Direct sunlight

**Hazardous Decomposition:**

200°C: CO, $CO_2$, NOx, organic compounds

Polymerization:

Will not occur

## 11: Toxicological Information

Acute Toxicity: Low

Long-Term Effects: No known adverse effects under intended use

## 12: Ecological Information

**Ecotoxicity:**
Fish $LC_{50}$ (96h): >100 mg/L
Daphnia $EC_{50}$ (48h): >100 mg/L
Algae $EC_{50}$ (72h): >100 mg/L
Persistence:
Readily biodegradable
Bioaccumulation:
Low potential (log Pow <3)

## 13: Disposal Considerations

**Waste Disposal:**
Dispose in accordance with local regulations
Do not dispose with household waste
Contact licensed waste disposal company

## 14: Transport Information

**Transport Classification**
Not dangerous goods
Not regulated for transport
**Proper Shipping Name:**
Not applicable

## 15: Regulatory Information

FDA: GRAS for specific uses
EU: Traditional herbal medicinal product
REACH: Registered
Halal: Certified available
Kosher: Certified available

## 16: Other Information

Disclaimer:
Information provided is accurate to our knowledge. User should determine suitability for intended use.
Prepared By: Quality Control Department
Reviewed By: Safety Officer
Approved By: Quality Manager

