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## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

### 1.1 Product Identifiers

Product name: L-Ergothioneine  
Product number: EH1001/EH1002  
CAS number: 497-30-3

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Laboratory chemicals, manufacture of substances

### 1.3 Details of the supplier of the safety data sheet

Company: Ergo Health  
PO Box 15652  
Boston, MA 02215  
USA  
info@ergo-health.com

Telephone: +1 617.863.7367

### 1.4 Emergency telephone number

Emergency Phone # +1 617.863.7367

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## SECTION 2. HAZARD IDENTIFICATION

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

### 2.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None.

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## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

Synonyms: (S)- $\alpha$ -Carboxy-N,N,N-trimethyl-2-mercapto-1H-imidazole-4-ethanaminiuminner salt  
Formula:  $C_9H_{15}N_3O_2S$   
Molecular weight: 229.30 g/mol  
CAS number: 497-30-3  
No ingredients are hazardous according to OSHA criteria.



No components need to be disclosed according to the applicable regulations.

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## SECTION 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a doctor in case of complaints.

#### **In case of skin contact**

Remove contaminated clothing. Wash off with soap and plenty of water.

#### **In case of eye contact**

Flush eyes with water as a precaution.

#### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. If symptoms persist, consult a doctor.

### 4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

### 4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

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## SECTION 5. FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### **Suitable extinguishing media**

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

### 5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Sulphur oxides.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting, if necessary. Do not inhale explosion gasses or combustion gasses. Wear a fully protective suit.

### 5.4 Further information

No further information available.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapors, mist or gas.  
For personal protection see section 8.

### 6.2 Environmental precautions

No special measures required.



### 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in a suitable, closed container for disposal.

### 6.4 Reference to other sections

For safe handling, see section 7.

For personal protective equipment, see section 8.

For disposal, see section 13.

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## SECTION 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

No special measures required.

Information about fire and explosion protection: No special measures required.

### 7.2 Conditions for safe storage, including any incompatibilities

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

Recommended storage temperature: -20 °C

### 7.3 Specific end use(s)

No further relevant information available.

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

### 8.2 Exposure controls

#### Appropriate engineering controls

General industrial hygiene practice.

#### Personal protective equipment

##### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

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.

##### Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components



tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Control of environmental exposure**

No special measures required.

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## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance	Form: solid Color: white
Odor	No data available.
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	Melting point/range: 255 - 259 °C (491 - 498 °F).
Initial boiling point and range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability	Product is not flammable.
Upper/lower flammability or explosive limits	No data available.
Vapor pressure	No data available.
Vapor density	No data available.
Relative density	No data available.
Water solubility	Soluble
Partition coefficient: n-Octanol/water	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

### 9.2 Other safety information

No further relevant information available.

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## SECTION 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No data available.



## 10.2 Chemical stability

Stable under recommended storage conditions.

## 10.3 Possibility of hazardous reactions

No data available.

## 10.4 Conditions to avoid

Avoid moisture.

## 10.5 Incompatible materials

Strong oxidizing agents.

## 10.6 Hazardous decomposition products

Other decomposition products – no data available.  
In the event of fire: see section 5.

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# SECTION 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

### Acute toxicity

Based on available data, the classification criteria are no met.

### Skin corrosion/irritation

No data available.

### Serious eye damage/eye irritation

No data available.

### Respiratory or skin sensitization

Based on available data, the classification criteria are no met.

### Germ cell mutagenicity

Based on available data, the classification criteria are no met.

### Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### Reproductive toxicity

Based on available data, the classification criteria are no met.

### Specific target organ toxicity – single exposure

Based on available data, the classification criteria are no met.

### Specific target organ toxicity – repeated exposure

Based on available data, the classification criteria are no met.

### Aspiration hazard

Based on available data, the classification criteria are no met.



**Additional information**

To the best of our knowledge, the chemical, physical and toxicological properties have not been thoroughly investigated.

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**SECTION 12. ECOLOGICAL INFORMATION****12.1 Toxicity**

No data available.

**12.2 Persistence and degradability**

Stable under recommended storage conditions.

**12.3 Bioaccumulative potential**

No data available.

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**12.6 Other adverse effects**

No data available.

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**SECTION 13. DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Small quantities of waste can be disposed of with household waste.

**Contaminated packaging**

Dispose of as unused product. All waste must be handled in accordance with local, state and federal regulations.

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**SECTION 14. TRANSPORT INFORMATION****DOT (US)**

Not dangerous goods.

**IMDG**

Not dangerous goods.

**IATA**

Not dangerous goods.

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**SECTION 15. REGULATORY INFORMATION****SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### **SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **SARA 311/312 Hazards**

No SARA Hazards.

### **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

### **Pennsylvania Right To Know Components**

	CAS Number	Revision Date
L-Ergothioneine	497-30-3	

### **New Jersey Right To Know Components**

	CAS Number	Revision Date
L-Ergothioneine	497-30-3	

### **California Prop. 65 Components**

This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

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## **SECTION 16. REGULATORY INFORMATION**

### **HMIS Rating**

Health hazard:	0
Chronic health hazard:	
Flammability:	0
Physical hazard	0

### **NFPA Rating**

Health hazard:	0
Fire hazard:	0
Reactivity hazard	0

### **Further information**

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### **Preparation Information**

Ergo Health LLC  
Customer Service  
+1 617.863.7367

