



## SAFETY DATA SHEET

Suzhou Fushilai Pharmaceutical Co., Ltd

2019/11/25

### 1. PRODUCT AND COMPANY IDENTIFICATION

#### 1.1 Product Identifiers

Product Name: Alpha lipoic acid      Other Name: Thioctic acid

Product Number: ALA

CAS No.:1077-28-7

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

Identified uses: pharmaceutical / food raw material

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

Company: Suzhou Fushilai Pharmaceutical Co., Ltd

No.16, Haiwang Rd, Advanced Material Industrial Park,  
Changshu, Jiangsu Pro., China

Tel: +86-512-52838772

Fax: +86-512-52831795

#### 1.4 Emergency Tel No: +86-13901575733

### 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

**GHS Classification in accordance with 29 CFR 1910(OSHA HCS)**

Acute toxicity, Oral (Category 4), H302)

For the full text of the H-Statements mentioned in this Section, see Section 16

#### 2.2 GHS Label elements, including precautionary statements

Pictogram:



Signal word: WARNING

Hazard statement(s)

H302

Harmful if swallowed

Precautionary statement(s)

P264

Wash skin thoroughly after handling

P270

Do not eat, drink or smoke when using this product

P301 + P312 + P330

If swallowed: Call a poison center or doctor/  
physician if you feel unwell. Rinse mouth

P501

Dispose of contents/ container to an approved waste



苏州富士莱医药股份有限公司

SUZHOU FUSHILAI PHARMACEUTICAL CO., LTD

Tel:+86-512-52838772 Fax:+86-512-52831795 Email:sales@fuslai.com

disposal plant

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS – none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substance

Synonyms:	(±)-1,2-Dithiolane-3-pentanoic acid 6,8-Dithiooctanoic acid DL-6,8-Thioctic acid Lip(S2) DL- $\alpha$ -Lipoic acid
Formula:	C <sub>8</sub> H <sub>14</sub> O <sub>2</sub> S <sub>2</sub>
Molecular weight:	206.33 g/mol
CAS-No. :	1077-28-7
EC-No. :	214-071-2DE

#### Hazardous Components

Component	Classification	Concentration
<b>5-(Dithiolan-3-yl)valeric acid</b>		
	Acute Tox. 4; H302	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRE AID MEASURES

### 4.1 Description of first aid measures

#### General Advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.  
Move out of dangerous area

#### 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

Flush eyes with water as a precaution.

#### If swallowed

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

### 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 data available

## 5. FIREFIGHTING MEASURES



苏州富士莱医药股份有限公司

SUZHOU FUSHILAI PHARMACEUTICAL CO., LTD

Tel:+86-512-52838772 Fax:+86-512-52831795 Email:sales@fuslai.com

## **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, Sulphur oxides

## **5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary

## **5.4 Further information**

No data available

## **6. ACCIDENTAL RELEASE MEASURES**

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

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

For personal protection see section 8.

### **6.2 Environmental precautions**

Do not let product enter drains

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

Pick up and arrange disposal without creating dust. Sweep up and shovel.

Keep in suitable, closed containers for disposal

### **6.4 Reference to other sections**

For disposal see section 13

## **7. STORAGE AND HANDLING**

### **7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.

Provide appropriate exhaust ventilation at places where dust is formed.

For precautions see section 2.2.

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

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

Keep in a dry and dark place, away from light.

Storage class (TRGS 510): Non Combustible Solids

### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## **8. EXPOSURE CONTROLS AND PERSONAL PROTECTION**

### **8.1 Control parameters**

#### **Components with workplace control parameters**

Contains no substances with occupational exposure limit values



苏州富士莱医药股份有限公司

SUZHOU FUSHILAI PHARMACEUTICAL CO., LTD

Tel:+86-512-52838772 Fax:+86-512-52831795 Email:sales@fuslai.com

## 8.2 Exposure controls

### Appropriate engineering controls

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

### Personal protective equipment

#### 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

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

Complete suit protecting against chemicals, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Control of environmental exposure

Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

- a) Appearance Form: powder
- b) Odour No data available
- c) Odour Threshold No data available
- d) pH No data available
- e) Melting point/freezing point Melting point/range: 60 - 62 °C (140 - 144 °F)
- f) Initial boiling point and boiling range 160 - 165 °C (320 - 329 °F)
- g) Flash point No data available
- h) Evaporation rate No data available
- i) Flammability (solid, gas) No data available
- j) Upper/lower flammability or explosive limits No data available
- k) Vapour pressure No data available
- l) Vapour density No data available
- m) Relative density No data available
- n) Water solubility No data available



苏州富士莱医药股份有限公司

SUZHOU FUSHILAI PHARMACEUTICAL CO., LTD

Tel:+86-512-52838772 Fax:+86-512-52831795 Email:sales@fuslai.com

- o) Partition coefficient: n-octanol/water No data available
- p) Auto-ignition temperature No data available
- q) Decomposition temperature No data available
- r) Viscosity No data available
- s) Explosive properties No data available
- t) Oxidizing properties No data available

### **9.2 Other safety information**

Solubility in other: Ethanol 50 g/l at 20 °C (68 °F) solvents

## **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**

No data available

### **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

## **11. TOXICOLOGICAL INFORMATION**

Other decomposition products - No data available

### **11.1 Information on toxicological effects**

#### **Acute toxicity**

No data available

Inhalation: No data available

Dermal: No data available

LD50 Intraperitoneal - Mouse - 235 mg/kg

#### **Skin corrosion/irritation**

No data available

#### **Serious eye damage/eye irritation**

No data available

#### **Respiratory or skin sensitisation**

No data available

#### **Germ cell mutagenicity**

No data available

#### **Carcinogenicity**

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



# 苏州富士莱医药股份有限公司

SUZHOU FUSHILAI PHARMACEUTICAL CO., LTD

Tel:+86-512-52838772 Fax:+86-512-52831795 Email:sales@fuslai.com

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as acarcinogen 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**

No data available

## **Specific target organ toxicity - single exposure**

No data available

## **Specific target organ toxicity - repeated exposure**

No data available

## **Aspiration hazard**

No data available

## **Additional Information**

RTECS: JP1192000

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

## **12. ECOLOGICAL INFORMATION:**

### **12.1 Toxicity**

No data available

### **12.2 Persistence and degradability**

No data available

### **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

## **13. DISPOSAL CONSIDERATIONS:**

### **13.1 Waste treatment methods**

#### **Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

#### **Contaminated packaging**

Dispose of as unused product

## **14. TRANSPORT INFORMATION:**

### **DOT (US)**



苏州富士莱医药股份有限公司

SUZHOU FUSHILAI PHARMACEUTICAL CO., LTD

Tel:+86-512-52838772 Fax:+86-512-52831795 Email:sales@fuslai.com

Not dangerous goods

**IMDG**

Not dangerous goods

**IATA**

Not dangerous goods

## 15. REGULATORY INFORMATION

### **SARA 302 Components**

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

### **SARA 313 Components**

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

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

Acute Health Hazard

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

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

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

5-(Dithiolan-3-yl)valeric acid

CAS-No.:1077-28-7

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

5-(Dithiolan-3-yl)valeric acid

CAS-No.:1077-28-7

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

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

## 16. OTHER INFORMATION

### **Full text of H-Statements referred to under sections 2 and 3.**

Acute Tox. Acute toxicity

H302 Harmful if swallowed.

### **HMIS Rating**

Health hazard: 1

Chronic Health Hazard:

Flammability: 0

Physical Hazard 0

### **NFPA Rating**

Health hazard: 1

Fire Hazard: 0

Reactivity Hazard: 0

### **Further information**

The above information is believed to be correct but does not purport to be all



苏州富士莱医药股份有限公司

SUZHOU FUSHILAI PHARMACEUTICAL CO., LTD

Tel:+86-512-52838772 Fax:+86-512-52831795 Email:sales@fuslai.com

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. Suzhou Fushilai Pharmaceutical Co., Ltd shall not be held liable for any damage resulting from handling or from contact with the above product.

Signature:

Position: Quality Manager

Stamp:

Date: 2019/11/25

