

Version: v1  
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## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name : Leu-Leu-Leu  
Product Number : L121357  
Brand : aladdin  
CAS-No. : 10329-75-6

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

Identified uses : It is only for scientific research purposes, not for medicine, family standby medicine or other purposes.

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

Company : Shanghai Aladdin Biochemical Tech Co.,Ltd  
Address : 36 Xinjinqiao Road, Shanghai  
Telephone : 400-620-6333  
Fax : no data available

#### 1.4 Emergency telephone number

Emergency Phone : 0532-83889090

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

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

**Pictogram** : no data available  
**Signal word** : no data available  
**Hazard statement(s)**  
**Precautionary statement(s)**

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

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Synonyms : L-Leucyl-L-leucyl-L-leucine; Leucylleucylleucine; Trileucine  
Formula : C18H35N3O4

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Molecular weight : 357.49  
 CAS No. : 10329-75-6  
 EC-NO. : no data available

| Component   | Classification    | Concentration |
|-------------|-------------------|---------------|
| Leu-Leu-Leu | no data available | 98%           |

#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures

###### General advice

no data available

###### If inhaled

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

###### In case of skin contact

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.

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

no data available

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

no data available

#### SECTION 5: Firefighting measures

##### 5.1 Extinguishing media

###### Suitable extinguishing media

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

###### Unsuitable extinguishing media

no data available

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

Hazardous decomposition products formed under fire conditions.- Carbon oxides, nitrogen oxides (NOx)

##### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

##### 5.4 Further information

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no data 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.<br/>

##### 6.2 Environmental precautions

Do not let product enter drains.

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

Sweep up and shovel.Keep in suitable, closed containers for disposal.<br/>

##### 6.4 Reference to other sections

no data available

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#### SECTION 7: Handling and storage

##### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.<br/>

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

Keep container tightly closed in a dry and well-ventilated place.<br/>Recommended storage temperature: -20 °C <br/>Store under inert gas.<br/>

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

no data available

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#### SECTION 8: Exposure controls/personal protection

##### 8.1 Control parameters

##### 8.2 Exposure controls

###### Appropriate engineering controls

General industrial hygiene practice.<br/>

###### Personal protective equipment

###### Eyeface protection

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

###### Skin protection

Handle with gloves.Gloves must be inspected prior to use.Use proper glove removal technique (without touching <br/>glove's outer surface) to avoid skin contact with this product.Dispose of contaminated gloves after use in

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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 data available

### SECTION 9: Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties

|                                                 |                   |
|-------------------------------------------------|-------------------|
| a) Appearance                                   | no data available |
| b) Odour                                        | no data available |
| c) Odour Threshold                              | no data available |
| d) pH                                           | no data available |
| e) Melting point/freezing point                 | no data available |
| f) Initial boiling point and boiling range      | no data available |
| 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 |
| 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 N                       | no data available |
| t) Oxidizing properties N                       | no data available |

#### 9.2 Other safety information

no data available

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Stable under recommended storage conditions.

#### 10.2 Chemical stability

no data available

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**10.3 Possibility of hazardous reactions**

no data available

**10.4 Conditions to avoid**

Strong oxidizing agents

**10.5 Incompatible materials**

Hazardous decomposition products formed under fire conditions.- Carbon oxides, nitrogen oxides (NOx) <br/>Other decomposition products - no data available <br/>

**10.6 Hazardous decomposition products**

Oral LD50 <br/>no data available <br/><br/>Sigma - L0879 Page 4 of 6 <br/>Inhalation LC50 <br/>no data available <br/>Dermal LD50 <br/>no data available <br/>Other information on acute toxicity <br/>no data available <br/>

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**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

no data available

**Skin corrosion/irritation**

no data available <br/>

**Serious eye damage/eye irritation**

no data available <br/>

**Respiratory or skin sensitisation**

no data available

**Germ cell mutagenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as <br/>probable, possible or confirmed human carcinogen by IARC.<br/>ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a <br/>carcinogen or potential carcinogen by ACGIH.<br/>NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a <br/>known or anticipated carcinogen by NTP.<br/>OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a <br/>carcinogen or potential carcinogen by OSHA.<br/>

**Carcinogenicity**

no data available <br/><br/>

**Reproductive toxicity**

no data available <br/>

**Specific target organ toxicity - single exposure**

no data available <br/>

**Specific target organ toxicity - repeated exposure**

no data available

**Aspiration hazard**

<br/>Sigma - L0879 Page 5 of 6 <br/>no data available <br/>

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**Additional Information**  
no data available

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**SECTION 12: Ecological information**

- 12.1

Toxicity

no data available
- 12.2

Persistence and degradability

no data available <br/>
- 12.3

Bioaccumulative potential

no data available <br/>
- 12.4

Mobility in soil

no data available
- 12.5

Results of PBT and vPvB assessment

no data available <br/><br/>
- 12.6

Other adverse effects

no data available

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**SECTION 13:**

- 13.1

Disposal considerations

Product

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

Contaminated packaging

no data available

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**SECTION 14: Transport information**

|                              |                                            |                                   |
|------------------------------|--------------------------------------------|-----------------------------------|
| <b>DOT (US)</b>              |                                            |                                   |
| UN number: no data available | Packing group: -                           | Class: -                          |
| Proper shipping name: 非危险货物  | Reportable Quantity(RQ): no data available | Poison Inhalation Hazard: no data |
| Environmental Hazards: 否     |                                            |                                   |
| <b>IMDG</b>                  |                                            |                                   |
| UN number: no data available | Packing group: -                           | EMS-No: no data available         |
| Proper shipping name: 非危险货物  |                                            |                                   |
| <b>IATA</b>                  |                                            |                                   |
| UN number: no data available | Packing group: -                           | Class: -                          |

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Proper shipping name: 非危险货物

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**SECTION 15: Regulatory information**

no data available

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**SECTION 16: Other information**

**Further information**

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