

Shanghai Aladdin Biochemical Technology Co., Ltd.  
No. 809, Chuhua Branch Road, Fengxian District, Shanghai

# SAFETY DATA SHEET

Version: v1  
Revision Date: 2025-09-14  
Print Date: 2025-09-20

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

### 1.1 Product identifiers

Product name : DL-Lactic acid  
Product Number : L108841  
Brand : aladdin  
CAS-No. : 50-21-5

### 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 : 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



Signal word

Danger

Hazard statement(s)

H315 Causes skin irritation  
H318 Causes serious eye damage

Precautionary statement(s)

P264 Wash hands [and ...] thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P321 Specific treatment (see ... on this label).  
P302+P352 IF ON SKIN: wash with plenty of water.  
P362+P364 Take off contaminated clothing and wash it before reuse.  
P264+P265 Wash hands [and ...] thoroughly after handling. Do not touch eyes.

Shanghai Aladdin Biochemical Technology Co., Ltd.  
No. 809, Chuhua Branch Road, Fengxian District, Shanghai

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P305+P354+P338 | IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. |
| P317           | Get emergency medical help.                                                                                                      |
| P332+P317      | If skin irritation occurs: Get medical help.                                                                                     |

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |                                                                                                                  |
|------------------|------------------------------------------------------------------------------------------------------------------|
| Synonyms         | : 2-Hydroxypropionic acid;DL-2-Hydroxypropanoic acid;Lactic acid;DL-2-Hydroxypropanoic acid;Lactic acid solution |
| Formula          | : C <sub>3</sub> H <sub>6</sub> O <sub>3</sub>                                                                   |
| Molecular weight | : 90.08                                                                                                          |
| CAS No.          | : 50-21-5                                                                                                        |
| EC-NO.           | : no data available                                                                                              |

| Component      | Classification    | Concentration |
|----------------|-------------------|---------------|
| DL-Lactic acid | no data available | ACS, ≥85%     |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

no data available

#### If inhaled

no data available

#### In case of skin contact

no data available

#### In case of eye contact

Please open your eyes and rinse with running water for a few minutes. Then consult a doctor.

#### If swallowed

no data available

### 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

Shanghai Aladdin Biochemical Technology Co., Ltd.  
No. 809, Chuhua Branch Road, Fengxian District, Shanghai

## 5.1 Extinguishing media

### Suitable extinguishing media

Water, Foam, Carbon dioxide (CO<sub>2</sub>), Dry powder

### Unsuitable extinguishing media

no data available

## 5.2 Special hazards arising from the substance or mixture

no data available

## 5.3 Advice for firefighters

no data available

## 5.4 Further information

no data available

---

## SECTION 6: Accidental release measures

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

no data available

### 6.2 Environmental precautions

no data available

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

no data available

### 6.4 Reference to other sections

For disposal see section 13.

---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

No data available

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

no data available

### 7.3 Specific end use(s)

no data available

---

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Shanghai Aladdin Biochemical Technology Co., Ltd.  
No. 809, Chuhua Branch Road, Fengxian District, Shanghai

## 8.2 Exposure controls

### Appropriate engineering controls

no data available

### Personal protective equipment

#### Eye/face protection

no data available

#### Skin protection

no data available

#### Body Protection

no data available

#### Respiratory protection

no data available

#### 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      | 122 °C (252 °F) at 20 hPa (15 mmHg) |
| g) Flash point                                  | 113 °C (235 °F) - closed cup        |
| 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                             | 1.209 g/cm <sup>3</sup>             |
| 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

Shanghai Aladdin Biochemical Technology Co., Ltd.  
No. 809, Chuhua Branch Road, Fengxian District, Shanghai

## 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

no data available

### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

no data available

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

no data available

#### 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

no data available

#### 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

Shanghai Aladdin Biochemical Technology Co., Ltd.  
No. 809, Chuhua Branch Road, Fengxian District, Shanghai

no data available

## SECTION 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

no data available

### 12.6 Other adverse effects

no data available

## SECTION 13:

### 13.1 Disposal considerations

#### Product

Recycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

#### Contaminated packaging

Dispose of as unused product.

## SECTION 14: Transport information

### DOT (US)

UN number: -

Packing group: -

Class: -

Proper shipping name: Not dangerous goods

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: No

Environmental Hazards: No

### IMDG

UN number: -

Packing group: -

EMS-No: No

Proper shipping name: Not dangerous goods

Shanghai Aladdin Biochemical Technology Co., Ltd.  
No. 809, Chuhua Branch Road, Fengxian District, Shanghai

**IATA**

UN number: -

Packing group: -

Class: -

Proper shipping name: Not dangerous goods

---

**SECTION 15: Regulatory information**

no data available

---

**SECTION 16: Other information****Further information**

Copyright Aladdin Co. Ltd. License granted to make unlimited paper copies for internal use only. 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. Aladdin Co. Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

Version: v1

Revision Date: 2025-09-14

Print Date: 2025-09-20

□