

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

# SAFETY DATA SHEET

Version: v1  
Revision Date: 2023-11-15  
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : Adipic acid  
Product Number : A108267  
Brand : aladdin  
CAS-No. : 124-04-9

### 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



Signal word

Warning

Hazard statement(s)

H314

Causes severe skin burns and eye damage

H402

Harmful to aquatic life

Precautionary statement(s)

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P310

Immediately call a POISON CENTER or doctor/physician.

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.

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

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Synonyms	: Butane-1,4-dicarboxylic acid; Hexanedioic acid; 1,4-Butanedicarboxylic Acid
Formula	: C <sub>6</sub> H <sub>10</sub> O <sub>4</sub>
Molecular weight	: 146.14
CAS No.	: 124-04-9
EC-NO.	: 204-673-3

Component	Classification	Concentration
Adipic acid	no data available	pharmaceutical, 99.6-101.0%

### 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  
no data available  
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

#### 5.1 Extinguishing media

Suitable extinguishing media  
no data available  
Unsuitable extinguishing media  
no data available

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## 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

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## SECTION 6: Accidental release measures

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

Do not generate dust during collection and disposal. Sweep and shovel away. Place in a suitable closed container for processing

### 6.2 Environmental precautions

no data available

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### 6.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

No data available

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

Store in a cool place. Keep the container tightly closed and store in a dry and ventilated place.

### 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

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**

no data available

**Skin protection**

Gloves must be checked before use. Please use proper methods to remove the gloves (do not touch the outer surface of the gloves), and avoid any skin parts contacting the product. After use, please handle the contaminated gloves carefully according to relevant laws and regulations and effective laboratory rules and procedures. Please clean and blow dry the protective gloves selected for your hands must meet the specifications given in regulation (EU) 2016 / 425 and the en 374 standard derived from it.

**Body Protection**

no data available

**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a fullface respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. 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	form: crystal color: White
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	2.0 - 3.0 at 24.9 g/l at 25 °C (77 °F)
e) Melting point/freezing point	151 - 154 °C (304 - 309 °F) - lit.
f) Initial boiling point and boiling range	265 °C (509 °F) at 133 hPa (100 mmHg) - lit.
g) Flash point	196 °C (385 °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	0.4 hPa (0.3 mmHg) at 151 °C (304 °F) 1 hPa (1 mmHg) at 159.5 °C (319.1 °F)
l) Vapour density	no data available
m) Relative density	no data available
n) Water solubility	no data available
o) Partition coefficient: n-octanol/water	0.093 at 25 °C (77 °F)
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

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t) Oxidizing properties N no data available

## 9.2 Other safety information

no data available

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

强氧化剂

### 10.2 Chemical stability

Stable under recommended storage conditions

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

吸入可能有害。可能引起呼吸道刺激。

### 10.5 Incompatible materials

吞咽可能有害。

### 10.6 Hazardous decomposition products

LD50 经口-大鼠-雄性和雌性- 5,560 mg/kg LC0 吸入-大鼠-雄性和雌性- 4 h - > 7.7 mg/l LD0 经皮-家兔-雄性和雌性- 7,940 mg/kg 皮肤腐蚀

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity

no data available

Skin corrosion/irritation

眼睛-家兔-可对眼睛造成严重损伤。-24h-OECD测试导则405

Serious eye damage/eye irritation

通过皮肤吸收可能有害。可能引起皮肤刺激。

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

此产品中无大于或等于0.1%含量的组分被IARC鉴别为可能的或肯定的人类致癌物。

Carcinogenicity

体外基因毒性-仓鼠-成纤维细胞-有或没有代谢活化作用-阴性体内基因毒性-大鼠-雄性-经口-阴性

Reproductive toxicity

化学物质毒性作用登记:AU8400000

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Specific target organ toxicity - single exposure  
no data available  
Specific target organ toxicity - repeated exposure  
引起眼睛灼伤。  
Aspiration hazard  
no data available  
Additional Information  
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

Toxic to aquatic organisms and has long-lasting effects. Avoid release into the environment.

## SECTION 13:

### 13.1 Disposal considerations

Product  
no data available  
Contaminated packaging  
Dispose of as unused product.

## SECTION 14: Transport information

DOT (US)		
UN number: no data available	Packing group: -	Class: -
Proper shipping name: Not dangerous goods	Reportable Quantity(RQ): no data available	Poison Inhalation Hazard: No

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Environmental Hazards: No

IMDG

UN number: no data available

Packing group: -

EMS-No: No

Proper shipping name: Not dangerous goods

IATA

UN number: no data available

Packing group: -

Class: -

Proper shipping name: Not dangerous goods

## SECTION 15: Regulatory information

no data available

## SECTION 16: Other information

Further information

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