

No. 809, Chuhua Branch Road, Fengxian District, Shanghai

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-28 Print Date: 2025-10-02

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

# 1.1 Product identifiers

Product name :(S)-(-)-Propylene oxide

Product Number : \$101942

Brand : aladdin

CAS-No. : 16088-62-3

# 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 : 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



Danger







Signal word

Hazard statement(s)

H224 Extremely flammable liquid and vapor

H302 Harmful if swallowed
H311 Toxic in contact with skin
H312 Harmful in contact with skin
H319 Causes serious eye irritation

H331 Toxic if inhaled
H332 Harmful if inhaled

H335 May cause respiratory irritation



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H340	May cause genetic defects
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H350 May cause cancer

Precautionary statement(s)

P210 Keep away from heat, hot surface, sparks, open flames and other ignition sources. -

No smoking.

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting/.../] equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P264 Wash hands [and ...] thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P281 Use personal protective equipment as required.

P321 Specific treatment (see ... on this label).

P330 Rinse mouth.

P302+P352 IF ON SKIN: wash with plenty of water.

P303+P361+P353 IF ON SKIN (or hair): Take off Immediately all contaminated clothing. Rinse SKIN

with water [or shower].

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses if present and easy to do - continue rinsing.

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P362+P364 Take off contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use ... to extinguish.

P405 Store locked up.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to an approved waste disposal plant.

P203 Obtain, read and follow all safety instructions before use.

P264+P265 Wash hands [and ...] thoroughly after handling. Do not touch eyes.

P301+P317 IF SWALLOWED: Get medical help.

P318 if exposed or concerned, get medical advice.

P317 Get emergency medical help.

P337+P317 If eye irritation persists: Get medical help.
P316 Get emergency medical help immediately.
P319 Get medical help if you feel unwell.

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



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# **SECTION 3: Composition/information on ingredients**

### 3.1 Substances

Synonyms : (S)-1,2-Epoxypropane (S)-Methyloxirane

Formula : C3H6O

Molecular weight : 58.08

CAS No. : 16088-62-3

EC-NO. : 240-241-0

Component	Classification	Concentration
(S)-(-)-Propylene oxide		
	no data available	≥99%

### **SECTION 4: First 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

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a

# 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

Water, Foam, Carbon dioxide (CO2), Dry powder

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



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# 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 5.4 Further information

no data available

#### **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all <br/> <br/> sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive <br/> <br/> concentrations. Vapours can a

# 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

# 6.3 Methods and materials for containment and cleaning up

#### 6.4 Reference to other sections

no data available

### **SECTION 7: Handling and storage**

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. <br/>
Vuse explosion-proof equipment. Keep away from sources of ignition - No smoking. Take measures to prevent the build <br/>
vapour or mist. <br/>

# 7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must <br/>be carefully resealed and kept upright to prevent leakage. <br/>Refrigerate before opening. <br/>
<br/>
'> Refrigerate before opening. <br/>
'> R

# 7.3 Specific end use(s)

no data available

### **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 <br/> <br/>br/>workday. <br/> <br/>



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### Personal protective equipment

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate <br/> <br/>

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching <br/> <br/> soluter surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in <br/> <br/> >accordance with applicable laws and good laboratory practices. Wash and dry hands. <br/> <br/> >accordance with applicable laws and good laboratory practices. Wash and dry hands.

#### **Body Protection**

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing, The type of protective <br/>br/>equipment must be selected according to the concentration and amount of the dangerous substance at the specific <br/>br/>workplace.<br/>

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose <br/>br/>combination (US) or type AXBEK (EN 14387) respirator cartridges as a backup to engineering controls. If the <br/>br/>respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components <br/>br/>tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). <br/>br/>

#### 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
g) Flash point -37 °C

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 I) 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 no data available r) Viscosity



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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

Vapours may form explosive mixture with air.

# 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

Oxidizing agents, Copper, Strong acids, Strong bases, Peroxides, Bases, Amines

# 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.- Carbon oxides

# **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

Laboratory experiments have shown mutagenic effects. Genotoxicity in vitro - Hamster - Lungs Sister chromatid exchange

### Carcinogenicity

This product is or contains a component that has been reported to be probably carcinogenic based on its IARC, OSHA,ACGIH, NTP, or EPA classification. Possible human carcinogenIARC: No component of this product present at



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levels greater than or equal to 0.1% is identified asprobable, 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 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 aknown or anticipated carcinogen by NTP.OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as acarcinogen 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** 

no data available

# **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

#### **SECTION 13:**

### 13.1 Disposal considerations

#### Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material <br/>is highly flammable.Offer surplus and non-recyclable solutions to a licensed disposal company.Contact a licensed <br/>br/>professional waste disposal service to dispose of this material.



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#### Contaminated packaging

no data available

# **SECTION 14: Transport information**

DOT (US)

UN number: 1280 Packing group: I Class: 3

Proper shipping name: PROPYLENE Reportable Quantity(RQ): no data Poison Inhalation Hazard: No

OXIDE available

Environmental Hazards: no data available

**IMDG** 

UN number: 1280 Packing group: I EMS-No: No

Proper shipping name: PROPYLENE OXIDE

IATA

UN number: 1280 Packing group: I Class: 3

Proper shipping name: PROPYLENE OXIDE

# **SECTION 15: Regulatory information**

no data available

#### **SECTION 16: Other information**

#### **Further information**

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