ALADDIN SCIENTIFIC CORPORATION
14078 Meridian Parkway, Riverside, CA. 92518

# SAFETY DATA SHEET

Version: v1
Revision Date: 2025-09-16
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## SECTION 1:Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

| | |
|---|---|
| Product name | : 1,2-Epoxyoctane |
| Product Number | : E113793 |
| Brand | : aladdin |
| CAS-No. | : 2984-50-1 |

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

| | |
|---|---|
| Identified uses | : Laboratory chemicals,Manufacture of substances. |

### 1.3 Company

| | |
|---|---|
| Company | : ALADDIN SCIENTIFIC CORPORATION |
| Address | : 14078 Meridian Parkway, |
| Riverside, CA. 92518 | |
| Telephone | : +1 (833) 552-7181 |
| Fax | : no data available |

### 1.4 Emergency telephone number

| | |
|---|---|
| CHEMTREC®, Inside the USA | : 1-800-424-9300 |
| CHEMTREC®, Outside the USA | : |

## 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)**

| | |
|---|---|
| H226 | Flammable liquid and vapor |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |

**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. |
| P271 | Use only outdoors or in a well-ventilated area. |
| 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. |
| 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. |
| 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. |
| P264+P265 | Wash hands [and ...] thoroughly after handling. Do not touch eyes. |
| P337+P317 | If eye irritation persists: Get medical help. |
| P332+P317 | If skin irritation occurs: Get medical help. |
| P319 | Get medical help if you feel unwell. |

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

## SECTION 3: Composition/information on ingredients

## 3.1 Substances

| | |
|---|---|
| Synonyms | : 1-Octene oxide; Hexyloxirane; octylene epoxide |
| Formula | : C8H16O |
| Molecular weight | : 128.21 |
| CAS No. | : 2984-50-1 |
| EC-NO. | : 221-047-5 |

| Component | Classification | Concentration |
|---|---|---|
| **1,2-Epoxyoctane** | | |

| Component | Classification | Concentration |
|---|---|---|
| | no data available | ≥97% |

## 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**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician

**If swallowed**

Do NOT induce vomiting.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

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

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary

### 5.4 Further information

Use water spray to cool unopened containers

## 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 sources of ignition.Evacuate personnel to safe areas.Beware of vapours accumulating to form explosive concentrations.Vapours can accumulate in low areas

### 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

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

### 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.Keep away from sources of ignition - No smoking.Take measures to prevent the build up of electrostatic charge.

### 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 be carefully resealed and kept upright to prevent leakage.Recommended storage temperature: 2 - 8 °C Exposure to moisture.

### 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 workday.

**Personal protective equipment**

**Eye/face protection**

Face shield and safety glasses 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 gloves 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**

impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Respiratory protection**

impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**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: clear liquid color: light yellow |
| 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 | 62 °C |
| 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 |
| l) Vapour density | no data available |
| m) Relative density | 0.839 g/mL at 25 °C (77 °F) |
| 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

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

Heat, flames and sparks.

### 10.5 Incompatible materials

Strong oxidizing agents, Strong acids, Strong bases

### 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**
no data available
**Carcinogenicity**
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.
**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**
Inhalation - May cause respiratory irritation
**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

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 is highly flammable.Offer surplus and non-recyclable solutions to a licensed disposal company.Contact a licensed professional waste disposal service to dispose of this material.

**Contaminated packaging**

Dispose of as unused product

## SECTION 14: Transport information

**DOT (US)**

| | | |
|---|---|---|
| UN number: no data available | Packing group: no data available | Class: no data available |
| Proper shipping name: UN number: 3271 Class: 3 Packing group: III Proper shipping name: Ethers, n.o.s.Marine pollutant: No Poison Inhalation Hazard: No | Reportable Quantity(RQ): no data available | Poison Inhalation Hazard: no data available |

Environmental Hazards: no data available

**IMDG**

| | | |
|---|---|---|
| UN number: no data available | Packing group: no data available | EMS-No: no data available |

Proper shipping name: UN number: 3271 Class: 3 Packing group: III Proper shipping name: Ethers, n.o.s.Marine pollutar
No Poison Inhalation Hazard: No

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**IATA**

UN number: no data available Packing group: no data available Class: no data available

Proper shipping name: UN number: 3271 Class: 3 Packing group: III Proper shipping name: Ethers, n.o.s.Marine pollutar

No Poison Inhalation Hazard: No

## SECTION 15: Regulatory information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## SECTION 16: Other information

| | |
|---|---|
| **Prepared By** | Regulatory Affairs<br>ALADDIN SCIENTIFIC CORPORATION<br>Email: QualityAssurance@aladdinsci.com |
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| **Revision Summary** | SDS sections updated v1 |

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