

14078 Meridian Parkway, Riverside, CA. 92518

# SAFETY DATA SHEET

Version: v1

Revision Date: 2024-01-20

Print Date: 2024-01-26

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

### 1.1 Product identifiers

Product name : (R)-(-)-Epichlorohydrin

Product Number : E109298
Brand : aladdin
CAS-No. : 51594-55-9

## 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



Danger







Signal word

Hazard statement(s)

H226 Flammable liquid and vapor

H301 Toxic if swallowed

H311 Toxic in contact with skin

H314 Causes severe skin burns and eye damage

H317 May cause an allergic skin reaction

H331 Toxic if inhaled
H350 May cause cancer



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Precautionary statement(s)

P201 Obtain special instructions before use.

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

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.

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Synonyms : (R)-(-)-2-(Chloromethyl)oxirane; (R)-1-Chloro-2,3-epoxypropane; (R)-

Chloromethyloxirane

Formula : C3H5ClO

Molecular weight : 92.52

CAS No. : 51594-55-9

EC-NO. : 424-280-2

Component	Classification	Concentration
(R)-(-)-Epichlorohydrin		
	no data available	98%

### **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

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during 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



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## 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, Hydrogen chloride gas

### 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

### 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 <br/>
<br/>
<br/>
<br/>
-container for disposal according to local regulations (see section 13).<br/>
-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. <br/>
Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. <br/>
Str. > br/>

## 7.2 Conditions for safe storage, including any incompatibilities



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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/>

## 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

Personal protective equipment

Eye/face protection

Tightly fitting safety goggles.Faceshield (8-inch minimum).Use equipment for eye protection tested and approved <br/>
such as NIOSH (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/>
br/>glove's outer 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/>
chr/>Full contact <br/>
br/>Material: butyl-rubber <br/>
br/>Material tested:Butoject? (KCL 897 / Aldrich Z677647, Size M) <br/>
br/>Splash protection <br/>
chr/>Material: butyl-rubber <br/>
br/>Material: butyl-rubber <br/>
chr/>Material: butyl-rubber <br/>
chr/>Minimum layer thickness: 0.3 mm <br/>
chr/>Break through time: 480 min <br/>
chr/>
chr/>Break through time: 480 min <br/>
chr/>Break through time: 480 min <br

**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/>br/>

Respiratory protection

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

Control of environmental exposure

no data available



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## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

a) Appearance
b) Odour
c) Odour Threshold
d) pH
no data available
no data available
no data available

e) Melting point/freezing point -25.6°C f) Initial boiling point and boiling range 116.11°C

g) Flash point (open cup) 40.6°C h) Evaporation rate no data available i) Flammability (solid, gas) no data available

j) Upper/lower flammability or

no data available explosive limits no data available k) Vapour pressure 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 no data available p) Auto-ignition temperature q) Decomposition temperature no data available no data available r) Viscosity s) Explosive properties N no data available no data available t) Oxidizing properties N

## 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



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acids, Bases, Ammonia, Amines, Sodium/sodium oxides, Zinc, Magnesium, Aluminum, and its alloys, Halides

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.- Carbon oxides, Hydrogen chloride gas

### **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

Genotoxicity in vivo - mouse - Intraperitoneal Cytogenetic analysis Genotoxicity in vivo - mouse - Intraperitoneal 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 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



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## 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/>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.

Contaminated packaging

no data available

### **SECTION 14: Transport information**

DOT (US)

UN number: 2023 Packing group: II Class: 6.1(3)

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

EPICHLOROHYDRIN available

Environmental Hazards: No

**IMDG** 

UN number: 2023 Packing group: II EMS-No: No

Proper shipping name: EPICHLOROHYDRIN

IATA

UN number: 2023 Packing group: II Class: 6.1(3)

Proper shipping name: EPICHLOROHYDRIN

### **SECTION 15: Regulatory information**

no data available



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

Regulatory Affairs

Prepared By ALADDIN SCIENTIFIC CORPORATION

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