

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

SAFETY DATA SHEET

Version: v1

Revision Date: 2024-06-13

Print Date: 2024-06-13

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

1.1 Product identifiers

Product name : Styrene oxide
Product Number : S106990
Brand : aladdin
CAS-No. : 96-09-3

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)
Severe eye injury/irritation, category 2
Carcinogenicity, Category 1B
Harmful to aquatic environment - acute hazard, category 2

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H227 Combustible liquid
H302 Harmful if swallowed
H311 Toxic in contact with skin

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H319	Causes serious eye irritation
H350	May cause cancer
H401	Toxic to aquatic life
Precautionary statement(s)	
P201	Obtain special instructions before use.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice/attention.

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

SECTION 3: Composition/information on ingredients

3.1 Substances

Synonyms	: Phenylloxirane;Phenylethylene oxide;1,2-Epoxyethylbenzene
Formula	: C8H8O
Molecular weight	: 120.15
CAS No.	: 96-09-3
EC-NO.	: 202-476-7

Component	Classification	Concentration
Styrene oxide	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

Wash off with soap and plenty of water.Take victim immediately to hospital.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

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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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

Carbon oxides Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

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

Wear respiratory protection. 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. Discharge into the environment must be avoided

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). Keep in suitable, closed containers for disposal.

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

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smoking. Take measures to prevent the build up of electrostatic charge.

7.2 Conditions for safe storage, including any incompatibilities

Recommended storage temperature see product label.

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

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product

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

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face 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: Transparent liquid color: Pale yellow |
| b) Odour | no data available |
| c) Odour Threshold | no data available |
| d) pH | no data available |
| e) Melting point/freezing point | -37 °C (-35 °F) - lit. |
| f) Initial boiling point and boiling range | 194 °C (381 °F) - lit. |

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g) Flash point	80 °C (176 °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	1.054
n) Water solubility	Soluble in water.
o) Partition coefficient: n-octanol/water	4.15 - (Air = 1.0)
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

Stable under recommended storage conditions

10.2 Chemical stability

no data available

10.3 Possibility of hazardous reactions

Air and humidity sensitivity

10.4 Conditions to avoid

Strong oxidizing agents, Strong bases, Strong acids

10.5 Incompatible materials

Hazardous decomposition products formed under fire conditions.- Carbon oxides Other decomposition products -
no data available

10.6 Hazardous decomposition products

no data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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Acute toxicity

Acute toxicity LD50 Oral - Rat - 4,290 mg/kg (OECD Test Guideline 401) LC50 Inhalation - Rat - male - 4 h - > 500 ppm
- vapor LD50 Dermal - Rabbit - male - 1,060 mg/kg

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

no data available

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

2A - Group 2A: Probably carcinogenic to humans (Phenyloxirane)

Carcinogenicity

no data available

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

May be harmful if inhaled. Causes respiratory tract irritation.

Aspiration hazard

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 4.5 - 26.0 mg/l - 96 h <div>Toxicity to daphnia</div>
<div>and other aquatic</div> <div>invertebrates</div> <div>EC50 - Daphnia magna (Water flea) - 11.6 mg/l - 48
h</div> <div>Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - 32 mg/l - 96 h</div>

Additional Information

no data available

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish semi-static test LC50 - Cyprinus carpio (Carp) - 34 mg/l - 96 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 11.6 mg/l - 48 h semi-static test EC50 - Daphnia magna (Water flea) - ca. 13 mg/l - 48 h (OECD Test Guideline 202) Toxicity to algae static test EC50 - Desmodesmus subspicatus (green algae) - ca. 32 mg/l - 96 h (OECD Test Guideline 201)

12.2 Persistence and degradability

Biodegradability aerobic - Exposure time 28 d Result: 81 - 90 % - Readily biodegradable. (OECD Test Guideline 301B)

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

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12.5 Results of PBT and vPvB assessment

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

12.6 Other adverse effects

no data available

SECTION 13:

13.1 Disposal considerations

Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. 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: 2810

Packing group: III

Class: 6.1

Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. ((epoxyethyl)benzene) available

Reportable Quantity(RQ): no data available
Poison Inhalation Hazard: no data available

Environmental Hazards: no

IMDG

UN number: 2810

Packing group: III

EMS-No: no data available

Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. ((epoxyethyl)benzene)

IATA

UN number: 2810

Packing group: III

Class: 6.1

Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. ((epoxyethyl)benzene)

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

ALADDIN SCIENTIFIC CORPORATION

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Creation Date

10-Sep-2020

Revision Date

13-Jun-2024

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Print Date

13-Jun-2024

Revision Summary

SDS sections updated v1

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