

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

# SAFETY DATA SHEET

Version: v1  
Revision Date: 2025-09-17  
Print Date: 2025-09-24

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

### 1.1 Product identifiers

Product name : (1S)-(+)-10-Camphorsulfonic acid  
Product Number : C106038  
Brand : aladdin  
CAS-No. : 3144-16-9

### 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



Signal word

Danger

Hazard statement(s)

H314 Causes severe skin burns and eye damage  
H318 Causes serious eye damage

Precautionary statement(s)

P260 Do not breathe dust/fume/gas/mist/vapors/spray.  
P264 Wash hands [and ...] thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P321 Specific treatment (see ... on this label).  
P363 Wash contaminated clothing before reuse.  
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.
P264+P265	Wash hands [and ...] thoroughly after handling. Do not touch eyes.
P305+P354+P338	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P317	Get emergency medical help.
P302+P361+P354	IF ON SKIN: Take off Immediately all contaminated clothing. Immediately rinse with water for several minutes.
P316	Get emergency medical help immediately.

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Synonyms	: (+)-Camphor-10-sulfonic acid (β), (1S)-Camphor-10-sulfonic acid ;(1S)-(+)-10-Camphorsulfonic acid; (+)-CSA
Formula	: C <sub>10</sub> H <sub>16</sub> O <sub>4</sub> S
Molecular weight	: 232.3
CAS No.	: 3144-16-9
EC-NO.	: 221-554-1

Component	Classification	Concentration
(1S)-(+)-10-Camphorsulfonic acid	no data available	Moligand™, ≥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

Take off contaminated clothing and shoes immediately. 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. 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

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## 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

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## 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

Hazardous decomposition products formed under fire conditions.- Carbon oxides, Sulphur oxides

### 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 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

Use personal protective equipment.Avoid dust formation.Avoid breathing vapours, mist or gas.Ensure adequate  
<br/>ventilation.Evacuate personnel to safe areas.Avoid breathing dust.<br/>

### 6.2 Environmental precautions

Do not let product enter drains.

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

Pick up and arrange disposal without creating dust.Sweep up and shovel.Keep in suitable, closed containers for  
<br/>disposal.<br/>

### 6.4 Reference to other sections

no data available

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid formation of dust and aerosols.<br/>Provide appropriate exhaust ventilation at places where dust is  
formed.Normal measures for preventive fire protection.<br/>

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## 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place. <br/> <br/> Fluka - 21360 Page 3 of 7 <br/> hygroscopic  
Store under inert gas. <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

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of  
<br/> workday. <br/>

### Personal protective equipment

#### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate  
<br/> government standards 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/> glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in  
<br/> accordance with applicable laws and good laboratory practices. Wash and dry hands. <br/> Full contact  
<br/> Material: Nitrile rubber <br/> Minimum layer thickness: 0.11 mm <br/> Break through time: 480 min  
<br/> Material tested: Dermatrill? (KCL 740 / Aldrich Z677272, Size M) <br/> Splash contact <br/> Material:  
Nitrile rubber <br/> Minimum layer thickness: 0.11 mm <br/> Break through time: 480 min <br/> Material  
tested: Dermatrill? (KCL 740 / Aldrich Z677272, Size M) <br/> data source: KCL GmbH, D-36124 Eichenzell,  
phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374 <br/> If used in solution, or mixed with other  
substances, and under conditions which differ from EN 374, contact the <br/> supplier of the CE approved  
gloves. This recommendation is advisory only and must be evaluated by an industrial <br/> hygienist and safety  
officer familiar with the specific situation of anticipated use by our customers. It should not be <br/> construed as  
offering an approval for any specific use scenario. <br/>

#### Body Protection

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

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type  
N100 <br/> (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is  
the sole <br/> means of protection, use a full-face supplied air respirator. Use respirators and components tested  
and approved <br/> under appropriate government standards such as NIOSH (US) or CEN (EU). <br/>

#### 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	no data available
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	196-200 °C
f) Initial boiling point and boiling range	no data available
g) Flash point	no data available
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	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
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

no data available

### 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

Strong oxidizing agents, Strong bases

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## 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.- Carbon oxides, Sulphur oxides

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## 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

IARC: No ingredient 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

no data available

#### Additional Information

no data available

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## 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

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no data available

## 12.5 Results of PBT and vPvB assessment

no data available <br/><br/><br/>Fluka - 21360 Page 6 of 7 <br/>

## 12.6 Other adverse effects

no data available

## SECTION 13:

### 13.1 Disposal considerations

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

#### Contaminated packaging

no data available

## SECTION 14: Transport information

#### DOT (US)

UN number: 2585	Packing group: III	Class: 8
Proper shipping name: ARYLSULPHONIC ACIDS, SOLID	Reportable Quantity(RQ): no data available	Poison Inhalation Hazard: No
Environmental Hazards: No		

#### IMDG

UN number: 2585	Packing group: III	EMS-No: No
Proper shipping name: ARYLSULPHONIC ACIDS, SOLID		

#### IATA

UN number: 2585	Packing group: III	Class: 8
Proper shipping name: ARYLSULPHONIC ACIDS, SOLID		

## SECTION 15: Regulatory information

no data available

## SECTION 16: Other information

#### Further information

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Co. Ltd. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.

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