

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-20

Print Date: 2025-09-26

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

### 1.1 Product identifiers

Product name : Diisopropyl Sulfate  
Product Number : D154807  
Brand : aladdin  
CAS-No. : 2973-10-6

### 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)

CFR 1910.1200: Acute Toxicity - Oral [Category 4] Acute Toxicity - Dermal [Category 4] Eye Damage/Irritation [Category 1] Carcinogenicity [Category 2] Skin Corrosion/Irritation [Category 1C]

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H302

Harmful if swallowed

H312

Harmful in contact with skin

H314

Causes severe skin burns and eye damage

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|                                   |  |
|-----------------------------------|--|
| H318                              | Causes serious eye damage  |
| H351                              | Suspected of causing cancer  |
| <b>Precautionary statement(s)</b> |  |
| P260                              | Do not breathe dust/fume/gas/mist/vapors/spray.  |
| P264                              | Wash hands [and ...] thoroughly after handling.  |
| P270                              | Do not eat, drink or smoke when using this product.  |
| P280                              | Wear protective gloves/protective clothing/eye protection/face protection.   |
| P321                              | Specific treatment (see ... on this label).  |
| P330                              | Rinse mouth.   |
| P363                              | Wash contaminated clothing before reuse.   |
| P301+P330+P331                    | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.   |
| P302+P352                         | IF ON SKIN: wash with plenty of water.   |
| P304+P340                         | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P362+P364                         | Take off contaminated clothing and wash it before reuse.   |
| P405                              | Store locked up.   |
| 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.  |
| P305+P354+P338                    | IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. |
| P318                              | if exposed or concerned, get medical advice.   |
| 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 (HNOC) or not covered by GHS

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

|                  |   |
|------------------|---|
| Synonyms         | : Diisopropyl sulfate                             |
| Formula          | : C <sub>6</sub> H <sub>14</sub> O <sub>4</sub> S |
| Molecular weight | : 182.23  |
| CAS No.          | : 2973-10-6                                       |
| EC-NO.           | : no data available                               |

| Component                  | Classification    | Concentration |
|----------------------------|-------------------|---------------|
| <b>Diisopropyl Sulfate</b> | no data available | ≥97%          |

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

no data available

#### If inhaled

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

#### In case of skin contact

Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.

#### In case of eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

#### If swallowed

Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

Possibly carcinogenic to humans.

### 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

Dry chemical, foam, water spray, carbon dioxide.

#### Unsuitable extinguishing media

Solid streams of water

### 5.2 Special hazards arising from the substance or mixture

These products include: Carbon oxides Sulfur oxides. Take care as it may decompose upon combustion or in high temperatures to generate poisonous fume. Closed containers may explode from heat of a fire.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus if possible.

### 5.4 Further information

Use water spray to cool unopened containers.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

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Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

## 6.2 Environmental precautions

Prevent product from entering drains.

## 6.3 Methods and materials for containment and cleaning up

Absorb spilled material with suitable absorbent (such as rag, dry sand, soil, sawdust). If there is a large amount of spillage, use seals to control the spillage. Adhered or collected materials shall be disposed of in a timely manner in accordance with local laws and regulations.

## 6.4 Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Wash hands and face thoroughly after handling. Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated. Avoid all contact! Conditions for safe storage, including any incompatibilities

### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Store in a freezer. Store under inert gas. Store locked up. Store away from incompatible materials such as oxidizing agents. Heat-sensitive Air-sensitive

### 7.3 Specific end use(s)

no data available

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

### 8.2 Exposure controls

#### Appropriate engineering controls

Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.

#### Personal protective equipment

##### Eye/face protection

Safety goggles. A face-shield, if the situation requires.

##### Skin protection

Gloves must be checked before use. Please use proper methods to remove the gloves (do not touch the outer surface of the gloves), and avoid any skin parts contacting the product. After use, please handle the contaminated gloves carefully according to relevant laws and regulations and effective laboratory rules and procedures. Please clean and blow dry the protective gloves selected for your hands must meet the specifications given in

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regulation (EU) 2016 / 425 and the en 374 standard derived from it.

#### **Body Protection**

Impervious gloves. Impervious protective clothing. Protective boots, if the situation requires.

#### **Respiratory protection**

Half or full facepiece respirator, self-contained breathing apparatus (SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.

#### **Control of environmental exposure**

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

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

### **9.1 Information on basic physical and chemical properties**

|   |  |
|---|--|
| a) Appearance                                   | form: Clear Liquid color: Colorless - Slightly pale yellow |
| b) Odour  | no data available  |
| c) Odour Threshold                              | no data available  |
| d) pH   | no data available  |
| e) Melting point/freezing point                 | -19°C (-2°F)   |
| f) Initial boiling point and boiling range      | 94°C /0.9kPa (201°F)                                       |
| 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                             | 1.1  |
| n) Water solubility                             | Water:Slightly soluble                                     |
| 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**

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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

### 10.6 Hazardous decomposition products

Carbon dioxide, Carbon monoxide, Sulfur oxide

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

orl-rat LD50:1090 uL/kg skn-rbt LD50:1410 uL/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

scu-rat TDLo:300 mg/kg

#### Carcinogenicity

scu-rat TDLo:300 mg/kg

#### 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

RTECS Number:WS8050000;IARC:Group 2B (Possibly carcinogenic to humans)

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## SECTION 12: Ecological information

### 12.1 Toxicity

Phone: +1 (833) 552-7181 Email: QualityAssurance@aladdinsci.com Website: <https://www.aladdinsci.com/>

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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**

Disposal of product: Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil. Other considerations: Observe all federal, state and local regulations when disposing of the substance.

**Contaminated packaging**

Disposal of container: Dispose of as unused product. Do not re-use empty containers.

**SECTION 14: Transport information****DOT (US)**

UN number: UN1760

Packing group: III

Class: 8

Proper shipping name: Corrosive liquids, Reportable Quantity(RQ): no data

Poison Inhalation Hazard: no data

n.o.s

available

available

Environmental Hazards: no data available

**IMDG**

UN number: UN1760

Packing group: III

EMS-No: EmS number: F-A, S-B

Proper shipping name: Corrosive liquids, n.o.s

**IATA**

UN number: UN1760

Packing group: III

Class: 8

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Proper shipping name: Corrosive liquids, n.o.s

## SECTION 15: Regulatory information

### Toxic Substance Control Act

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list: (i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec. (ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet. US Federal Regulations

### US Federal Regulations

SARA 313: Not Listed

SARA 302: Not Listed

### State Regulations

Massachusetts Not Listed

New Jersey Not Listed

Pennsylvania Not Listed

### Other Information

NFPA Rating: HMIS Classification: Health: 3 Health: 3 Flammability: 0 Flammability: 0 Instability: 0 Physical: 0

### International Inventories

EC-No: 221-011-9

## SECTION 16: Other information

Prepared By

Regulatory Affairs

ALADDIN SCIENTIFIC CORPORATION

Email: QualityAssurance@aladdinsci.com

Creation Date

13-Oct-2022

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|-------------------------|-------------------------|
| <b>Revision Date</b>    | 20-Sep-2025             |
| <b>Print Date</b>       | 26-Sep-2025             |
| <b>Revision Summary</b> | SDS sections updated v1 |

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