

# SAFETY DATA SHEET

Version: v1

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

### 1.1 Product identifiers

|                |                           |
|----------------|---------------------------|
| Product name   | : Di-tert-butyl Disulfide |
| Product Number | : D154920                 |
| Brand          | : aladdin                 |
| CAS-No.        | : 110-06-5                |

### 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,<br>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: Flammable Liquids [Category 4] Aquatic Hazard (Acute) [Category 2] Aquatic Hazard (Long-Term) [Category 2]

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H227

Combustible liquid

H304

May be fatal if swallowed and enters airways

H319

Causes serious eye irritation

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|                                   |                                                                                                                                  |
|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| H320                              | Causes eye irritation                                                                                                            |
| H335                              | May cause respiratory irritation                                                                                                 |
| H336                              | May cause drowsiness or dizziness                                                                                                |
| H411                              | Toxic to aquatic life with long lasting effects                                                                                  |
| <b>Precautionary statement(s)</b> |                                                                                                                                  |
| P210                              | Keep away from heat, hot surface, sparks, open flames and other ignition sources. - No smoking.                                  |
| P261                              | Avoid breathing dust/fume/gas/mist/vapors/spray.                                                                                 |
| P271                              | Use only outdoors or in a well-ventilated area.                                                                                  |
| P273                              | Avoid release to the environment.                                                                                                |
| P280                              | Wear protective gloves/protective clothing/eye protection/face protection.                                                       |
| P331                              | Do NOT induce vomiting.                                                                                                          |
| P391                              | Collect spillage.                                                                                                                |
| 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. |
| P370+P378                         | In case of fire: Use ... to extinguish.                                                                                          |
| P403                              | Store in a well-ventilated place.                                                                                                |
| P405                              | Store locked up.                                                                                                                 |
| P403+P233                         | Store in a well-ventilated place. Keep container tightly closed.                                                                 |
| P501                              | Dispose of contents/container to an approved waste disposal plant.                                                               |
| P264+P265                         | Wash hands [and ...] thoroughly after handling. Do not touch eyes.                                                               |
| P301+P316                         | IF SWALLOWED: Get emergency medical help immediately.                                                                            |
| P337+P317                         | If eye irritation persists: 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         | : tert-Butyl Disulfide                          |
| Formula          | : C <sub>8</sub> H <sub>18</sub> S <sub>2</sub> |
| Molecular weight | : 178.35                                        |
| CAS No.          | : 110-06-5                                      |
| EC-NO.           | : 203-734-1                                     |

| Component                      | Classification    | Concentration |
|--------------------------------|-------------------|---------------|
| <b>Di-tert-butyl Disulfide</b> |                   |               |
|                                | no data available | ≥97%(GC)      |

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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. Get medical advice/attention if you feel unwell.

**In case of skin contact**

Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation or rash occurs: Get medical advice/attention.

**In case of eye contact**

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**If swallowed**

Get medical advice/attention if you feel unwell. Rinse mouth.

### 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**

Dry chemical, foam, carbon dioxide.

**Unsuitable extinguishing media**

Water (It may scatter and spread fire.)

### 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

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation.

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Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

## 6.2 Environmental precautions

Be careful not to let it flow into rivers, etc., since adverse effects on the environment are concerned.

## 6.3 Methods and materials for containment and cleaning up

Absorb spilled material with a suitable absorbent (e.g. rag, dry sand, soil, sawdust). If the overflow is large, use seals to control the overflow. Adhered or aggregated materials shall be disposed of in a timely manner in accordance with local laws and regulations. Prevention of secondary hazards: Do not contact with water. Remove all sources of ignition. Fire extinguishing devices shall be provided in case of fire. Use spark proof tools and explosion-proof equipment.

## 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. Keep away from flames and hot surfaces. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. 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 contact with skin, eyes and clothing. Conditions for safe storage, including any incompatibilities

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

Keep container tightly closed. Store in a cool, dark and well-ventilated place. Store under inert gas. Store away from incompatible materials such as oxidizing agents. 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 as possible so that workers should not be exposed directly. Also install safety shower and eye bath.

#### Personal protective equipment

##### Eye/face protection

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

**Body Protection**

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

**Respiratory protection**

Vapor respirator. 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 - Pale 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      | 200°C (392°F)                                     |
| g) Flash point                                  | 67°C (153°F)                                      |
| 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                             | 0.93                                              |
| 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

Open flame

## 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

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 data available

#### 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

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## 12.1 Toxicity

Fish: 96h LC50:1.37 mg/L (Pimephales promelas)

## 12.2 Persistence and degradability

no data available

## 12.3 Bioaccumulative potential

no data available

## 12.4 Mobility in soil

Log Pow: 4.6

## 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: UN3082

Packing group: III

Class: 9

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s material

Reportable Quantity(RQ): no data available

Poison Inhalation Hazard: no data available

Environmental Hazards: no data available

### IMDG

UN number: UN3082

Packing group: III

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

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s material

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**IATA**

UN number: UN3082                      Packing group: III                      Class: 9  
 Proper shipping name: Environmentally hazardous substance,liquid, n.o.s material

**SECTION 15: Regulatory information**

**Toxic Substance Control Act**

This product is ON the EPA Toxic Substances Control Act (TSCA) inventory. 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: 0 Health: 0 Flammability: 2 Flammability: 2 Instability: 0 Physical: 0

**International Inventories**

Canada: NDSL On NDSL

EC-No: 203-734-1

**SECTION 16: Other information**

|                      |                                                                                                                                                     |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Prepared By</b>   | Regulatory Affairs<br>ALADDIN SCIENTIFIC CORPORATION<br>Email: <a href="mailto:QualityAssurance@aladdinsci.com">QualityAssurance@aladdinsci.com</a> |
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**Revision Summary**

SDS sections updated v1

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