

# SAFETY DATA SHEET

Version: v1  
Revision Date: 2026-04-27  
Print Date: 2026-04-27

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

### 1.1 Product identifiers

Product name : Di-tert-butylsilyl bis(trifluoromethanesulfonate)  
Product Number : D119481  
Brand : aladdin  
CAS-No. : 85272-31-7

### 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)

Flammable liquids: Category 4

Metal Corrosive Substances: Category 1

Skin corrosion/irritation: Category 1B

Serious eye injury/eye irritation: Category 1

### 2.2 GHS Label elements, including precautionary statements

**Pictogram**

**Signal word**

Danger

**Hazard statement(s)**

H227

Combustible liquid

H290

May be corrosive to metals

H314

Causes severe skin burns and eye damage

**Precautionary statement(s)**

P210

Keep away from heat, hot surface, sparks, open flames and other ignition sources.  
- No smoking.

P234

Keep only in original container.

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.

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.

P305+P354+P338

IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.

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

: Di-tert-butylbis(trifluoromethanesulfonyloxy)silane;

Trifluoromethanesulfonic acid di-tert-butylsilylene ester; Di-tert-butylsilyl Ditriflate; Di-tert-butylsilylanediyl bis(trifluoromethanesulfonate)

Formula

: C<sub>10</sub>H<sub>18</sub>F<sub>6</sub>O<sub>6</sub>S<sub>2</sub>Si

Molecular weight

: 440.45

CAS No.

: 85272-31-7

EC-NO.

: 680-172-7

| Component                                                | Classification    | Concentration |
|----------------------------------------------------------|-------------------|---------------|
| Component                                                | Classification    | Concentration |
| <b>Di-tert-butylsilyl bis(trifluoromethanesulfonate)</b> |                   |               |
|                                                          | no data available | ≥97%          |

## 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 transport to hospital.

#### 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

### 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 (CO<sub>2</sub>), 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, Sulphur oxides, Hydrogen

fluoride, silicon oxides

### 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.

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## SECTION 6: Accidental release measures

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

Use personal protective equipment. 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.

### 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

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

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

Easy to absorb moisture, 2-8 °C, stored under argon filling

### 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

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

#### Personal protective equipment

##### Eye/face protection

Tightly fitting safety goggles. Faceshield (8-inch minimum). 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

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                            |                                                         |
|--------------------------------------------|---------------------------------------------------------|
| a) Appearance                              | form: liquid color: Colorless to Yellow to Brown-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 | 73 - 75 °C at 0.47 hPa - lit.                           |
| g) Flash point                             | 90°C                                                    |

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|                                                 |                                          |
|-------------------------------------------------|------------------------------------------|
| 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                               | 1.352 g/cm <sup>3</sup> at 25 °C (77 °F) |
| 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

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## 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

Heat, flames and sparks.

### 10.5 Incompatible materials

Strong oxidizing agents, Strong acids

### 10.6 Hazardous decomposition products

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

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

#### 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 component 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

May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous

#### Additional Information

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## SECTION 12: Ecological information

### 12.1 Toxicity

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

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## 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.

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## SECTION 14: Transport information

### DOT (US)

UN number: 3265

Packing group: II

Class: 8

Proper shipping name: Proper shipping name: Corrosive liquid, acidic, organic, n.o.s.(Di-tert-butylsilyl bis(trifluoromethanesulfonate))

Reportable Quantity(RQ):no data available

Poison Inhalation Hazard:no data available

Environmental Hazards: No

### IMDG

UN number: 3265

Packing group: II

EMS-No:no data available

Proper shipping name: Proper shipping name: Corrosive liquid, acidic, organic, n.o.s.(Di-tert-butylsilyl bis(trifluoromethanesulfonate))

### IATA

UN number: 3265

Packing group: II

Class: 8

Proper shipping name: Proper shipping name: Corrosive liquid, acidic, organic, n.o.s.(Di-tert-butylsilyl bis(trifluoromethanesulfonate))

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## SECTION 15: Regulatory information



ALADDIN SCIENTIFIC CORPORATION  
14078 Meridian Parkway, Riverside, CA. 92518

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

## SECTION 16: Other information

|                         |                                                                                                |
|-------------------------|------------------------------------------------------------------------------------------------|
| <b>Prepared By</b>      | Regulatory Affairs<br>ALADDIN SCIENTIFIC CORPORATION<br>Email: QualityAssurance@aladdinsci.com |
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| <b>Revision Summary</b> | SDS sections updated v1                                                                        |

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