

# SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-10

Print Date: 2025-09-11

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

### 1.1 Product identifiers

Product name : Stannous fluoborate  
Product Number : S105680  
Brand : aladdin  
CAS-No. : 13814-97-6

### 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)

### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

Hazard statement(s)

Precautionary statement(s)

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

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

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

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|                  |                                                                 |
|------------------|-----------------------------------------------------------------|
| Synonyms         | : Tin(II) tetrafluoroborate solution; Tin(II) tetrafluoroborate |
| Formula          | : $\text{SnB}_2\text{F}_8$                                      |
| Molecular weight | : 292.31                                                        |
| CAS No.          | : 13814-97-6                                                    |
| EC-NO.           | : 237-487-6                                                     |

| Component           | Classification    | Concentration    |
|---------------------|-------------------|------------------|
| Stannous fluoborate | no data available | 50% w/w in water |

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General advice

Instantly remove any clothing soiled by the product

#### If inhaled

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice

#### In case of skin contact

Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. Rub in Ca-gluconate solution or Ca-gluconate gel immediately.

#### In case of eye contact

Rinse opened eye for several minutes under running water. Then consult doctor.

#### If swallowed

Seek medical treatment

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

Causes severe skin burns. Causes serious eye damage.

### 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

Product is not flammable. Use fire-fighting measures that suit the surrounding fire.

#### Unsuitable extinguishing media

no data available

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

If this product is involved in a fire, the following can be released: Hydrogen fluoride (HF) Boron oxide Tin oxides Boron

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trifluoride

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus. Wear full protective suit.

### 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

Wear protective equipment. Keep unprotected persons away. Ensure adequate ventilation

### 6.2 Environmental precautions

Do not allow material to be released to the environment without proper governmental permits.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation.

### 6.4 Reference to other sections

See Section 7 for information on safe handling See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

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

Store away from strong bases. Water reacts with many metals to give hydrogen, often violently. Water also reacts violently with many reactive organic and inorganic chemicals. Store away from amines. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Store in a locked cabinet or with access restricted to technical experts or their assistants

### 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

The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Do not inhale gases / fumes / aerosols. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment.

### Personal protective equipment

#### Eye/face protection

Tightly sealed safety glasses. Full face protection

#### Skin protection

Check protective gloves prior to each use for their proper condition. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer

Impervious gloves

#### Body Protection

Protective work clothing.

#### Respiratory protection

Use breathing protection with high concentrations

#### Control of environmental exposure

no data available

## 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                 | no data available |
| 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 |

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## 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

No decomposition if used and stored according to specifications

### 10.5 Incompatible materials

Bases Amines

### 10.6 Hazardous decomposition products

Water reacts violently with alkali metals. Water reacts with many metals to give hydrogen, often violently. Water is also incompatible with many reactive organic and inorganic chemicals.

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Causes severe skin burns.

#### 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

EPA-I: Data are inadequate for an assessment of human carcinogenic potential.

#### Reproductive toxicity

no data available

#### Specific target organ toxicity - single exposure

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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 further relevant information available.

**12.3 Bioaccumulative potential**

no data available

**12.4 Mobility in soil**

no data available

**12.5 Results of PBT and vPvB assessment**

General notes: Do not allow material to be released to the environment without proper governmental permits. Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities to reach ground water, water course or sewage system. Avoid transfer into the environment.

**12.6 Other adverse effects**

no data available

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**SECTION 13:****13.1 Disposal considerations****Product**

Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal.

**Contaminated packaging**

Water, if necessary with cleaning agent.

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

UN number: 3264

Packing group: III

Class: 8

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Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Tin(II) tetrafluoroborate)      Reportable Quantity(RQ): no data available      Poison Inhalation Hazard: no data available

Environmental Hazards: no data available

**IMDG**

UN number: 3264      Packing group: III      EMS-No: no data available  
Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.(Tin(II) tetrafluoroborate)

**IATA**

UN number: 3264      Packing group: III      Class: 8  
Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.(Tin(II) tetrafluoroborate)

**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<br>ALADDIN SCIENTIFIC CORPORATION<br>Email: QualityAssurance@aladdinsci.com |
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| Revision Date    | 10-Sep-2025                                                                                    |
| Print Date       | 11-Sep-2025                                                                                    |
| Revision Summary | SDS sections updated v1                                                                        |

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