

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

# SAFETY DATA SHEET

Version: v1  
Revision Date: 2024-01-21  
Print Date: 2024-01-26

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

### 1.1 Product identifiers

Product name : Samarium(III) fluoride  
Product Number : S122325  
Brand : aladdin  
CAS-No. : 13765-24-7

### 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	Warning
Hazard statement(s)	
H302	Harmful if swallowed
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
Precautionary statement(s)	
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P321	Specific treatment (see ... on this label).

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P302+P352	IF ON SKIN: wash with plenty of water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
P405	Store locked up.
P501	Dispose of contents/container to an approved waste disposal plant.

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

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Synonyms	: samarium trifluoride
Formula	: SmF <sub>3</sub>
Molecular weight	: 207.36
CAS No.	: 13765-24-7
EC-NO.	: 237-367-3

Component	Classification	Concentration
Samarium(III) fluoride	no data available	anhydrous,99.9% metals basis

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

General advice

no data available

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

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

In case of eye contact

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

If swallowed

In case of persistent symptoms consult doctor.

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

no data available

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#### 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 mist, alcohol resistant foam, dry powder or carbon dioxide to extinguish fire.

Unsuitable extinguishing media

no data available

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

Can be released in case of fire:or mixture Hydrogen fluoride (HF)

#### 5.3 Advice for firefighters

Wear self-contained breathing apparatus.Protective equipment: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.and emergency procedures 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

Dispose of contaminated material as waste according to item 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.

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

No special requirements

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### 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

Wash hands during breaks and at the end of the work.

Personal protective equipment

Eye/face protection

Safety glasses Face protection

Skin protection

Check protective gloves prior to each use for their proper condition. Impervious gloves 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.

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	form: powder color: White
b) Odour	Odorless
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	1306°C
f) Initial boiling point and boiling range	2323°C
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	Product is not explosive
k) Vapour pressure	no data available
l) Vapour density	no data available
m) Relative density	6.6 g/cm <sup>3</sup> ;
n) Water solubility	Insolubility Uncertain
o) Partition coefficient: n-octanol/water	no data available

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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

no data available

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

Hydrogen fluoride

### 10.6 Hazardous decomposition products

no data available

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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

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No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

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

Water hazard class 1 (Self-assessment): slightly hazardous for water

### 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

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

Disposal must be made according to official regulations.

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## SECTION 14: Transport information

Phone: 400-620-6333 Email: Sale@aladdin-e.com Web: <https://www.aladdin-e.com>

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**DOT (US)**

UN number: 3288	Packing group: III	Class: 6.1
Proper shipping name: TOXIC SOLID, INORGANIC, N.O.S.(samarium fluoride) available	Reportable Quantity(RQ): no data	Poison Inhalation Hazard: no data available
Environmental Hazards: no data available		

**IMDG**

UN number: 3288	Packing group: III	EMS-No: no data available
Proper shipping name: TOXIC SOLID, INORGANIC, N.O.S.(samarium fluoride)		

**IATA**

UN number: 3288	Packing group: III	Class: 6.1
Proper shipping name: TOXIC SOLID, INORGANIC, N.O.S.(samarium fluoride)		

**SECTION 15: Regulatory information**

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

**SECTION 16: Other information**

## Further information

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