

14078 Meridian Parkway, Riverside, CA. 92518

SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-14

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

1.1 Product identifiers

Product name : Samarium(III) fluoride

Product Number : \$122325

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 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

Danger



Signal word

Hazard statement(s)

H302 Harmful if swallowed

H312 Harmful in contact with skin

H315 Causes skin irritation

H319 Causes serious eve irritation

H332 Harmful if inhaled

H335 May cause respiratory irritation



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Р	recau	tionary s	tatement	(s)	
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P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands [and] thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P321 Specific treatment (see ... on this label).

P330 Rinse mouth.

P302+P352 IF ON SKIN: wash with plenty of water.

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.

P361+P364 Take off immediately all contaminated clothing and wash it before reuse.

P362+P364 Take off contaminated clothing and wash it before reuse.

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.
P332+P317 If skin irritation occurs: Get medical help.
P316 Get emergency medical help immediately.
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 : samarium trifluoride

Formula : SmF3

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



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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.

lf swallowed

In case of persistent symptoms consult doctor.

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

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

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



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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.

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

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



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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 no data available I) Vapour density m) Relative density 6.6 g/cm³ n) Water solubility Insolubility Uncertain o) Partition coefficient: n-octanol/water no data available p) Auto-ignition temperature no data available no data available q) Decomposition temperature no data available r) Viscosity 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

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



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10.6 Hazardous decomposition products

no data available

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

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

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



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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

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.

SECTION 14: Transport information

DOT (US)

UN number: 3288 Packing group: III Class: 6.1

Proper shipping name: TOXIC SOLID, Reportable Quantity(RQ): no data Poison Inhalation Hazard: no data

INORGANIC, N.O.S. (samarium fluoride) available 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

Prepared By Regulatory Affairs

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