

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

SAFETY DATA SHEET

Version: v1

Revision Date: 2025-09-16

Print Date: 2025-09-22

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

1.1 Product identifiers

Product name : Iron(III) fluoride, anhydrous
Product Number : I491686
Brand : aladdin
CAS-No. : 7783-50-8

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)

Acute oral toxicity category 4

Acute percutaneous toxicity category 4

Acute inhalation toxicity - dust and smoke category 4

Skin corrosion / irritation category 1B

Severe eye injury / eye irritation category 1

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Danger

Hazard statement(s)

H301

Toxic if swallowed

H302

Harmful if swallowed

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H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H331	Toxic if inhaled
H332	Harmful if inhaled
Precautionary statement(s)	
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
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.
P363	Wash contaminated clothing before reuse.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302+P352	IF ON SKIN: wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.
P301+P316	IF SWALLOWED: Get emergency medical help immediately.
P301+P317	IF SWALLOWED: Get medical help.
P305+P354+P338	IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P317	Get emergency medical help.
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	: no data available
Formula	: FeF3
Molecular weight	: 112.84
CAS No.	: 7783-50-8
EC-NO.	: no data available

Component	Classification	Concentration
Iron(III) fluoride, anhydrous		

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Component	Classification	Concentration
	no data available	≥97%

SECTION 4: First aid measures

4.1 Description of first aid measures

- General advice**
Show this safety technical manual to the doctor on site. Seek medical attention immediately
- If inhaled**
Transfer to fresh air. If breathing stops, give artificial respiration. Call a doctor or detoxification center immediately If the patient ingests or inhales the substance, do not use the mouth to mouth method; Artificial respiration is performed by means of a pocket type breathing mask equipped with a one-way valve or other appropriate respiratory medical device
- In case of skin contact**
Wash immediately with soap and plenty of water and remove all contaminated clothing and shoes. Call a doctor immediately
- In case of eye contact**
Immediately flush with plenty of water for at least 15 minutes, including under the eyelids. Seek medical attention immediately. Keep your eyes open during flushing
- If swallowed**
Immediate medical attention is required. Do not induce vomiting. Drink plenty of water. Do not feed anything to the unconscious victim through the mouth

4.2 Most important symptoms and effects, both acute and delayed

All contact routes cause burns The product is corrosive. Gastric lavage or vomiting is contraindicated. The possibility of gastric or esophageal perforation should be investigated.: Ingestion will cause severe swelling, cause serious damage to vulnerable tissues, and have perforation risk

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**
Carbon dioxide (CO2), dry powder, dry sand, insoluble foam
- Unsuitable extinguishing media**
no data available

5.2 Special hazards arising from the substance or mixture

This product may cause burns to eyes, skin and mucous membrane

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

5.4 Further information

Use water spray to cool unopened containers.

SECTION 6: Accidental release measures

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

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6.1 Personal precautions, protective equipment and emergency procedures

Use the required personal protective equipment. Evacuate personnel to a safe area. Avoid contact with skin, eyes or clothing

6.2 Environmental precautions

Do not discharge into the environment. Prevent leakage from polluting the groundwater system See Part 12 for additional ecological information. Do not flush into surface water or sewage drainage systems

6.3 Methods and materials for containment and cleaning up

Clean and transfer to a suitable container with a shovel for disposal to avoid dust formation

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Operators shall receive special training and strictly abide by the operating procedures. Operation and disposal shall be carried out in places with local ventilation or comprehensive ventilation facilities. Avoid contact with eyes and skin, and avoid inhalation of steam. Refer to part 8 for personal protective measures. Keep away from kindling and heat sources. Smoking is strictly prohibited in the workplace. Use explosion-proof ventilation system and equipment. If the tank is required, the flow rate shall be controlled and the grounding device shall be provided to prevent the accumulation of static electricity. Avoid contact with prohibited substances such as oxidant (see Part 10 for prohibited substances). Handle with care to prevent damage to packaging and containers. The emptied container may contain harmful substances. Wash hands after use. Do not eat or drink in the workplace. Fire fighting equipment and leakage emergency treatment equipment of corresponding varieties and quantities shall be provided.

7.2 Conditions for safe storage, including any incompatibilities

Corrosive areas Keep the container closed and store in a dry, cool and well ventilated place. Moisture proof

7.3 Specific end use(s)

no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Component	China	Taiwan	Hong Kong	Britain
Ferric fluoride	-	TWA:2.5mg/m3	-	STEL:2mg/m3 15 min TWA:1mg/m3 8 hr
Component	ACGIH TLV	OSHA PEL	NIOSH IDLH	European Union (EU)

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Ferric fluoride	TWA:1mg/m3 TWA:2.5mg/m3	(Vacated)TWA: 1mg/m3 (Vacated)TWA: 2.5 mg/m3	IDLH:250mg/m3 TWA: 1 mg/m	
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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**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166(EU).

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

Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., 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 fullface 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

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	no data available
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting point/freezing point	> 1000 °C / 1832 °F
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	Soluble in dilute hydrofluoric acid. Slightly soluble in water. Insoluble in alcohol, ether and

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benzene.

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

no data available

10.5 Incompatible materials

no data available

10.6 Hazardous decomposition products

Hydrogen fluoride. Iron oxide

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 data available

Reproductive toxicity

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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

SECTION 12: Ecological information**12.1 Toxicity**

no data available

12.2 Persistence and degradability

The product contains heavy metals. It is strictly prohibited to discharge into the environment. Special pretreatment is necessary

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

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

ecycle to process, if possible. Consult your local regional authorities and an expert of disposal. You may be able to dissolve or mix material with a combustible solvent and little by little burn in a chemical incinerator equipped with an afterburner and scrubber system. If a large amount of the substance is burned at a time, an explosion may occur. Observe all federal, state and local regulations when disposing of the substance.

Contaminated packaging

Dispose of as unused product.

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

UN number: UN3260

Packing group: II

Class: 8

Proper shipping name: Inorganic acidic
corrosive solid, not otherwise specified

Reportable Quantity(RQ): no data available Poison Inhalation Hazard: no data availat

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Environmental Hazards: no data available

IMDG

UN number: UN3260

Packing group: II

EMS-No: no data available

Proper shipping name: Inorganic acidic corrosive solid, not otherwise specified

IATA

UN number: UN3260

Packing group: II

Class: 8

Proper shipping name: Inorganic acidic corrosive solid, not otherwise specified

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

ALADDIN SCIENTIFIC CORPORATION

Email: QualityAssurance@aladdinsci.com

Creation Date

15-Aug-2022

Revision Date

16-Sep-2025

Print Date

22-Sep-2025

Revision Summary

SDS sections updated v1

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