

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

SAFETY DATA SHEET

Version: v1
Revision Date: 2024-06-13
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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name : Iron(III) chloride
Product Number : I112066
Brand : aladdin
CAS-No. : 7705-08-0

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

Danger

Hazard statement(s)

H290 : May be corrosive to metals
H302 : Harmful if swallowed
H313 : May be harmful in contact with skin
H315 : Causes skin irritation
H318 : Causes serious eye damage
H401 : Toxic to aquatic life

Precautionary statement(s)

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P234	Keep only in original container.
P264	Wash hands [and ...] thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P310	Immediately call a POISON CENTER or doctor/physician.
P321	Specific treatment (see ... on this label).
P330	Rinse mouth.
P362	Take off contaminated clothing.
P390	Absorb spillage to prevent material damage.
P301+P312	IF SWALLOWED: call a POISON CENTER/doctor/... IF you feel unwell.
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.
P332+P313	IF SKIN irritation occurs: Get medical advice/attention.
P406	Store in corrosive resistant/... container with a resistant inner liner.
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	: Ferric chloride
Formula	: FeCl ₃
Molecular weight	: 162.2
CAS No.	: 7705-08-0
EC-NO.	: 231-729-4

Component	Classification	Concentration
Iron(III) chloride	no data available	≥99.99% metals basis

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

Consult a doctor. Present this safety technical manual to the on-site doctor.

If inhaled

Move the victim to fresh air, maintain clear breathing, and rest. If you feel unwell, please seek medical attention.

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In case of skin contact

Rinse with soap and plenty of water. Consult a doctor.

In case of eye contact

Thoroughly rinse with plenty of water for at least 15 minutes and consult a doctor.

If swallowed

no data available

4.2 Most important symptoms and effects, both acute and delayed

Acute and delayed effects of spasms, inflammation, sore throat, spasms, inflammation, bronchitis, pneumonia, pulmonary edema, excessive doses of iron compounds may have corrosive effects on the gastrointestinal mucosa, leading to gangrene, perforation, and ulcers. A few hours before symptoms appear, there may be upper abdominal pain, diarrhea, vomiting, nausea, and hemoptysis. After the symptoms disappear, the patient may experience metabolic acidosis, convulsions, and coma for a few hours or days. Further complications can develop into acute liver necrosis, leading to liver coma and death. As far as we know, The chemical, physical, and toxic properties have not been fully studied yet.

4.3 Indication of any immediate medical attention and special treatment needed

If necessary, wear self-contained breathing apparatus for firefighting operations.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

no data available

Unsuitable extinguishing media

no data available

5.2 Special hazards arising from the substance or mixture

no data available

5.3 Advice for firefighters

no data available

5.4 Further information

no data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not generate dust during collection and disposal. Sweep and shovel away. Place in a suitable closed container for processing.

6.2 Environmental precautions

no data available

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6.3 Methods and materials for containment and cleaning up

Avoid contact with skin and eyes. Avoid the formation of dust and aerosols. Provide suitable exhaust equipment in areas where dust is generated.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

no data available

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool place. Keep the container sealed and store in a dry and ventilated place. Hygroscopic

7.3 Specific end use(s)

Operate according to good industrial hygiene and safety regulations. Wash hands before rest and at the end of work.

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

no data available

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

no data available

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

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	304 °C (579 °F) - lit.
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	< 1 hPa (< 1 mmHg) at 20 °C (68 °F) 1 hPa (1 mmHg) at 194 °C (381 °F)
l) Vapour density	5.60 - (Air = 1.0)
m) Relative density	2.800 g/cm ³
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

SECTION 10: Stability and reactivity

10.1 Reactivity

Strong oxidants, potassium, alkali metals, alkali, when exposed to water heat, form vibration sensitive mixtures with certain substances.

10.2 Chemical stability

Stable under recommended storage conditions

10.3 Possibility of hazardous reactions

no data available

10.4 Conditions to avoid

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Inhalation may be harmful. Causing respiratory irritation.

10.5 Incompatible materials

Swallowing is harmful.

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

May be harmful if absorbed through the skin. Causing skin irritation.

Serious eye damage/eye irritation

Eyes - Rabbits - Severe Eye Irritation

Respiratory or skin sensitisation

no data available

Germ cell mutagenicity

There are no components in this product with a content greater than or equal to 0.1% identified by IARC as potential or definite human carcinogens.

Carcinogenicity

no data available

Reproductive toxicity

Registration of toxic effects of chemical substances:LJ9100000

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Aspiration hazard

LC50 for fish - Pimethyles promelas -21.84 mg/l -96 h for Daphnia magna and other aquatic invertebrates -9.6 mg/l -48 h for 1577407

Additional Information

no data available

SECTION 12: Ecological information

12.1 Toxicity

no data available

12.2 Persistence and degradability

no data available

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12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

Toxic to aquatic organisms.

12.6 Other adverse effects

no data available

SECTION 13:**13.1 Disposal considerations**

Product

no data available

Contaminated packaging

Dispose of as unused product.

SECTION 14: Transport information

DOT (US)

UN number: 1773

Packing group: III

Class: 8

Proper shipping name: FERRIC
CHLORIDE, ANHYDROUSReportable Quantity(RQ): no data
available

Poison Inhalation Hazard: yes

Environmental Hazards: yes

IMDG

UN number: 1773

Packing group: III

EMS-No: no

Proper shipping name: FERRIC CHLORIDE, ANHYDROUS

IATA

UN number: 1773

Packing group: III

Class: 8

Proper shipping name: FERRIC CHLORIDE, ANHYDROUS

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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