	SAFETY DATA SHEET (SDS)	
	FERRIC CHLORIDE SOLUTION	
	Document #: SCIL-SDS-13	Issue Date: 01-Jan-23
	Revision: 0	Next Rev: 31-Dec-27

1. IDENTIFICATION

- 1.1 Product identifier:** **Ferric chloride**
Synonym(s): Iron (III) Chloride, Iron trichloride, Iron (III) chloride solution.
Reach No. 01-2119497998-05-XXXX
CAS No. 1305-62-0
EC No. 215-279-6
- 1.2 Recommended use:** Laboratory chemicals, Manufacture of substances.
- 1.3 Details of the supplier of the Safety data sheet Manufacturer**
Company Name Sitara Chemical Industries Ltd.
Address: 32-K.M, Sheikhpura Road, Faisalabad.
Telephone Number: (+92) 041-4689141-5
Emergency Number (+92) 041-4689141-5 (Ext.1161)
Website <http://www.sitara.com.pk>

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or Mixture.

Classification according to Regulation (EC) No 1272/2008

Corrosive to Metals (Category 1) H290

Skin irritation (Category 2) H315

Serious eye damage (Category 1) H318

For the full text of the H-Statements mentioned in this Section, see Section 16

2.2 Label Elements

Labelling according to Regulation (EC) 1272/2008

Pictogram



Signal word: Danger

Hazard statement(s):

H290 May be corrosive to metals.

H315 Causes skin irritation.

H319 Causes serious eye damage.

Precautionary statement(s)

P234 Keep only in original packaging.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.


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.

Supplemental Hazard Statements: None

2.3 Other hazards:

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB) at levels of 0.1% or higher.

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3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Name of substance : Ferric chloride
 Formula : FeCl₃
 Molecular weight : 162,20 g/mol
 CAS- No. : 7705-08-0
 EC-No. : 231-729-4

Component	Classification	Concentration
Iron (III) chloride		
CAS-No. 7705-08-0	Met. Corr. 1; Acute Tox. 4;	>= 30 - < 50%
EC-No. 231-729-4	Skin Irrit. 2; Eye Dam. 1;	
Registration number 01-2119497998-05-XXXX	H290, H302, H315, H318	
	Concentration limits: >= 1 %: Met. Corr. 1, H290;	

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first-aid measures

General advice: Show this material safety data sheet to the doctor in attendance.
If inhaled: After inhalation: fresh air. Immediately.
In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.
In case of eye contact: After eye contact: rinse out with plenty of water. Immediately call-in ophthalmologist. Remove contact lenses
If swallowed: After swallowing, immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media for this substance/mixture no limitations of extinguishing agents are given

5.2 Special hazards arising from the substance or mixture

Hydrogen chloride gas


Iron oxides

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe

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distance or by wearing suitable protective clothing

5.4 Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel:

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact.

Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10).

Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections:

For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Tightly closed.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are known

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with workplace control parameters.

8.2 Exposure controls

Personal protective equipment

Eye/face protection: Use safety goggle with side protection.

Skin protection: Handle with gloves. Wash and dry hands.

Body Protection: Wear protective clothing

Respiratory protection: Required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143.

Recommended Filter type: Recommended Filter type: Filter type ABEK

Other: Wear suitable protective clothing.

Control of environmental exposure:

Do not let product enter drains.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties


Appearance Form: Liquid

Color: Dark reddish-brown liquid.

Odor: No data available

pH : No data available

Melting point/freezing point: No data available

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Initial boiling point and boiling range:	No data available
Flash Point:	No data available
Evaporation rate:	No data available
Flammability (solid, gas):	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Relative density:	No data available
Solubility in water:	Soluble at 20 °C
Partition coefficient (n-octanol/water):	No data available
Auto-ignition temperature:	Not applicable
Decomposition temperature:	No data available
Viscosity: Viscosity, kinematic / dynamic	No data available
Explosive properties	No data available
Oxidizing properties,	No data available

9.2 Other safety information:

No data available

10. Chemical Stability & Reactivity Information

- 10.1 Reactivity:** No data available
- 10.2 Chemical Stability:** The product is chemically stable under standard ambient conditions.
- 10.3 Possibility of hazardous reactions:** No data available
- 10.4 Conditions to avoid:** No information available
- 10.5 Incompatible Materials:**
Bases, Alkali metals, Strong oxidizing agents, Potassium, Exothermic in contact with water, Forms shock-sensitive mixtures with certain other materials. Metals
- 10.6 Hazardous Decomposition Products:** In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects


Acute toxicity:

Acute toxicity No data available
Symptoms: Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract.

Skin corrosion/irritation: Mixture causes skin irritation.
Serious eye damage/eye irritation Mixture causes serious eye damage.
Respiratory or skin sensitisation No data available
Germ cell mutagenicity No data available
Carcinogenicity: No data available
Reproductive toxicity No data available
Specific target organ toxicity - single exposure No data available
Specific target organ toxicity - repeated exposure No data available
Inhalation May cause respiratory irritation.
Specific target organ toxicity - repeated exposure: No data available
Aspiration hazard No data available

11.2 Additional Information

Not available
Other dangerous properties can not be excluded.
Handle in accordance with good industrial hygiene and safety practice.

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12. ECOLOGICAL INFORMATION

- 12.1 Toxicity**
Mixture No data available
- 12.2 Persistence and degradability** No data available.
- 12.3 Bio accumulative potential:** No data available
- 12.4 Mobility in soil:** No data available
- 12.5 Results of PBT and vPvB assessment**
According to the results of its assessment, this substance is not a PBT or a vPvB.
- 12.6 Other adverse effects:**
No data available
Components iron (III) chloride

13. DISPOSAL CONSIDERATIONS

- 13.1 Waste treatment methods**
Sewage disposal-relevant information: Do not empty into drains.
Waste treatment of containers/packaging's: Handle contaminated packages in the same way as the substance itself.

14. TRANSPORT INFORMATION

- 14.1 UN number**
ADR/RID: 2582 IMDG: 2582 IATA: 2582
- 14.2 UN proper shipping name**
ADR/RID: FERRIC CHLORIDE SOLUTION
IMDG: FERRIC CHLORIDE SOLUTION
IATA: Ferric chloride solution
- 14.3 Transport hazard class (es)** ADR/RID: 8 IMDG: 8 IATA: 8
- 14.4 Packaging group** ADR/RID: III IMDG: III IATA: III
- 14.5 Environmental hazards** ADR/RID: Yes, IMDG Marine pollutant: Yes IATA: no
- 14.6 Special precautions for user:** No data available

15. REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
This material safety data sheet complies with the requirements of Regulation (EC) No.1907/2006.
- 15.2 Chemical Safety Assessment**
For this product a chemical safety assessment was not carried out

16. LABELING INFORMATION

Full text of H-Statements referred to under sections 2 and 3.

- H290 May be corrosive to metals.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage

Disclaimer:

All information given in this data sheet by the company's technical staff is compiled based on data available at this time. The company accepts no responsibility whatsoever for its accuracy or for any results which may be obtained by customers. Any customer who relies upon any advice or information given in this data sheet by the company or by its technical staff does so entirely at its own risk and the company will not be liable for any loss or damage thereby suffered notwithstanding any want of care on the part of the company or its staff in compiling or giving the advice or information.