

Ferric Chloride (TNL 17351 – 17352)

1. Identification

Ferric Chloride.

2. Composition/Information on Ingredients

An inorganic salt of Iron (III) Chloride 6-hydrate (CAS No. 10025-77-1).

3. Hazards Identification

Harmful if swallowed. Irritating to skin. Risk of serious damage to eyes.

4. First-Aid Measures

Eye contact	Irrigate thoroughly with water for at least 10 minutes. Seek medical attention.
Skin contact	Wash off skin thoroughly with water. Remove contaminated clothing and wash before re-use. In severe cases, seek medical attention.
Inhalation	Remove from exposure, rest and keep warm. In severe cases, seek medical attention.
Ingestion	Wash out mouth thoroughly with water and give plenty of water to drink. Seek medical attention.

5. Fire-Fighting Measures

May evolve toxic fumes in fire

Extinguishing media	No restrictions.
Protective equipment for Fire-fighters	Standard.

6. Accidental Release Measures

Wear appropriate protective clothing. If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise transfer to container and arrange removal by disposal company, Wash site of spillage thoroughly with detergent and water. For large spillages liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers. Any residues should be treated as for small spillages.

7. Handling and Storage

Do not use metal equipment or containers. Store at room temperature (15 - 25°C). Keep well closed and protected from direct sunlight and moisture.

8. Exposure Control and Personal Protection

As appropriate to quality handled.

Respirator: Dust respirator.

Ventilation: Extraction hood.

Gloves: Rubber or plastic.

Eye Protection: Goggles or face-shield.

Other Precautions: Plastic apron, sleeves, boots-if handling large quantities

9. Physical and Chemical Properties

Physical form	Solid.
Colour	Brownish yellow.
Odour	Slightly pungent.
pH of aqueous solution	1.8 (10g/l H ₂ O).
Boiling point	280°C.
Melting point	37°C.
Viscosity	Not applicable.
Flash point	Not applicable.
Flammability solid/gas	Not applicable.
Autoflammability	Not applicable.
Explosive properties	Not applicable.
Oxidising properties	Not applicable.
Vapour pressure	Not applicable.
Specific gravity	Not determined.
Water solubility	Very soluble.
Bulk density	Not determined.
Partition coefficient octanol/water	Not applicable.
Explosive limits	Not applicable.

10. Stability and Reactivity

Thermal decomposition Stable under normal conditions of use.

Hazardous reactions Avoid contact with alkali metals and ethylene oxide.

11. Toxicological Information

Oral Ingestion of large amounts: Vomiting, diarrhoea, drop in blood pressure. Damage to kidneys.

Dermal Irritation.

Inhalation Irritation of the mucous membranes, coughing and dyspnoea.

Eye contact Irritation.

12. Ecological Information

Product reacts with water. The following applies to HCl in general: biological effects: hydrochloric acid (including such due to reaction): lethal for fish from 25 mg/l up. Toxic for aquatic organisms: harmful effect due to pH shift.

The following applies to dissolved iron compounds in general: fish: toxic from 0.9 mg/l up at pH 6.5 - 7.5; lethal from 1 mg/l up at pH 5.5 - 6.7; 50 mg/l iron upper limit for fish life. When iron ions flocculate in an alkaline medium, mechanical damage occurs in aquatic organisms.

13. Disposal Considerations

Chemical residues are generally classified as special waste, and as such covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling.

14. Transport Information

UN number	No record.
IMDG code/class	No record.
ICAO/IATA (air) class	1773
RID/ADR class	10025-77-1
ADNR class	Non hazardous

15. Regulatory Information

Labelling according to EEC directives

Symbol: Xn Harmful.

R-phrases: R2-38-41 Harmful if swallowed. Irritating to skin. Risk of serious damage to eyes.

S-phrases: S26-39 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear eye and face protection.

16. Other Information

No data available.