

## FERRIC CHLORIDE ANHYDROUS MATERIAL SAFETY DATA SHEET

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Product form	:	Substance
CAS-No.	:	7705-08-0
Product code	:	31379, A-31379
Synonym	:	Iron (III) Chloride anhydrous

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

##### 1.2.1. Relevant identified uses

Industrial/professional use spec	:	Industrial
For professional use only	:	
Use of the substance/mixture	:	Laboratory Reagent

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the manufacturer of the safety data sheet

Techno Pharmchem  
Plot No.1022, Modern Industrial Estate,  
Bahadurgarh-124507, India  
T +91 11 23646422  
info@technopharmchem.com

#### 1.4. Emergency telephone number

Emergency number: +91 11 23646422 (9:30am – 5.30pm)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Classification according to regulation (EC) No. 1272/2008[CLP]

Serious eye damage/eye irritation, Category 1	H318
Acute toxicity (oral), Category 4	H302
Skin corrosion/irritation, Category 2	H315
Corrosive to metals, Category 1	H290

Full text of classification categories and H statements: see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Xn; R22  
Xi; R41



**TECHNO PHARMCHEM**

An ISO 9001 : 2008 Certified Company

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Corporate Off. : 152, Vardhman City Centre, Near Shakti Nagar Underbridge, Delhi-110052 (India)  
Works : Plot No.1022, Modern Industrial Estate, Bahadurgarh-124507, Haryana (India)  
Telephone : 0091 - 11 - 23646422 E-mail : tecpharm@gmail.com  
Website : www.technopharmchem.com

Xi; R38

Full text of R-phrases: see section 16

### Adverse physicochemical, human health and environmental effects

No additional information available

#### 2.2. Label elements

Labeling according to regulation (EC) No. 1272/2008 [CLP]

Signal word (CLP)	:	Danger
Hazard statements (CLP)	:	H290 - May be corrosive to metals H302 - Harmful if swallowed H315 - Causes skin irritation H318 - Causes serious eye damage
Precautionary statements (CLP)	:	P280 - Wear protective gloves, protective clothing, eye protection, face protection P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

#### 2.3. Other hazards

No additional information available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1. Substances

Name	:	Ferric Chloride Anhydrous
CAS No	:	7705-08-0

Full text of R- and H-phrases: see section 16

#### 3.2. Mixtures

Not applicable

## SECTION 4: FIRST AID MEASURES

#### 4.1. Description of first aid measures

First – aid measures after inhalation	:	Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.
First – aid measures after skin contact	:	Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get medical advice/attention.
First-aid measures after eye contact	:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor/physician.
First-aid measures after ingestion	:	Rinse mouth. Call a doctor/physician if you feel unwell



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### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries after skin contact : Causes skin irritation.  
Symptoms/injuries after eye contact : Causes serious eye damage.  
Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard

### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

## SECTION 5: FIRE FIGHTING MEASURES

### 5.1. Extinguishing media

- Suitable extinguishing media : Water spray. Foam. Dry powder. Carbon dioxide.  
Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Special hazards arising from the substance or mixture

No additional information available.

### 5.3. Advice for firefighters

- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

- Emergency procedures : Evacuate unnecessary personnel.

#### 6.1.2. For emergency responders

- Protective equipment : use personnel protective equipment as required.  
Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Absorb spillage to prevent material damage. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible

### 6.4. Reference to other sections

No additional information available

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

- Additional hazards when processed : May be corrosive to metals.



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Precautions for safe handling : Avoid contact with skin and eyes. Do not breathe vapours. Provide good ventilation in process area to prevent formation of vapour.  
Hygiene measures : Do not eat, drink or smoke when using this product. Wash ... thoroughly after handling.

### 7.2. Conditions for safe storage, including any compatibilities

Storage conditions : Keep container tightly closed.  
Packaging materials : Store in corrosive resistant/... container with a resistant inner liner

### 7.3. Specific end use (S)

No additional information available

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

Hand protection : Protective gloves  
Eye protection : Chemical goggles or safety glasses  
Skin and body protection : Wear suitable protective clothing  
Respiratory protection : Wear respiratory protection.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Physical state : Solid  
Color : Dark green  
Odor : slight odor of hydrochloric acid.  
Odor threshold : No data available  
pH : 10.1 at 10 g/l at 20°C  
Relative evaporation rate (butylacetate=1) : No data available  
Melting Point : 63°C  
Freezing point : No data available  
Boiling point : 139°C  
Flash point : No data available  
Auto-ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : No data available  
Vapor pressure : 8 hPa at 20°C  
Relative vapor density at 20°C : No data available  
Relative density : No data available  
Density : 0.91 g/cm<sup>3</sup>  
Solubility : Water: Soluble in water  
Log pow : 0.055  
Viscosity, kinematic : No data available



Viscosity, dynamic : No data available  
 Explosive properties : No data available  
 Oxidizing properties : No data available  
 Explosive limits : No data available

**9.2. Other information**

No additional information available

**SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity**

No additional information available

**10.2. Chemical Stability**

No additional information available

**10.3. Possibility of hazardous reactions**

No additional information available

**10.4. Conditions to avoid**

Direct sunlight. Extremely high or low temperatures.

**10.5. Incompatible materials**

No additional information available

**10.6. Hazardous decomposition products**

No additional information available.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

Acute toxicity : Oral: Harmful if swallowed.  
 Skin corrosion/irritation : Causes skin irritation.  
 pH: 10.1 at 10 g/l at 20 °C  
 Serious eye damage/irritation : Causes serious eye damage.  
 pH: 10.1 at 10 g/l at 20 °C  
 Respiratory or skin sensitisation : Not classified  
 Germ cell mutagenicity : Not classified  
 Carcinogenicity : Not classified  
 Reproductive toxicity : Not classified  
 Specific target organ toxicity : Not classified  
 (single exposure)  
 Specific target organ toxicity : Not classified  
 (repeated exposure)  
 Aspiration hazard : Not classified  
 Potential adverse human health effects : Harmful if swallowed  
 and symptoms





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## **SECTION 15: REGULATORY INFORMATION**

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Ensure all local, regional, national and/or international regulations are observed.

### **15.2 Chemical safety Assessment**

For this product a chemical safety assessment was not carried out.

## **SECTION 16: OTHER INFORMATION**

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

Acute Tox. Acute toxicity

Eye Dam. Serious eye damage

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

Met. Corr. Corrosive to metals

Skin Irrit. Skin irritation

### **Full text of R-phrases referred to under sections 2 and 3**

Xn Harmful

R22 Harmful if swallowed.

R38 Irritating to skin.

R41 Risk of serious damage to eyes

The information contained herein in good faith but makes no representations as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. We do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.