

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

## Iron (III) Chloride Hexahydrate - 1 M

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Name: Iron (III) Chloride Hexahydrate - 1 M  
Catalog Number: CSS-184  
Supplier: Jena Bioscience GmbH  
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### 2. HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]

Met. Corr. 1, H290  
Acute Tox. 4, H302  
Skin Irrit 2, H315  
Eye Dam. 1, H318

#### Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xi, R41

#### Label elements

#### Labelling according Regulation (EC) No 1272/2008 [CLP]



Pictogram

Signal word

Danger

Hazard statement(s)

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

Precautionary statement(s)

P280 Wear protective gloves/ 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.

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Supplemental Hazard  
Statements none

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:

Formula:  $\text{FeCl}_3 \cdot 6\text{H}_2\text{O}$   
Molecular Weight: 270.30 g/mol  
CAS-No.: 10025-77-1  
EC number: 231-729-4  
Classification: Met. Corr. 1, H290 - Acute Tox. 4, H302 - Skin Irrit 2, H315 - Eye Dam. 1, H318  
Xn, R22 - Xi, R38-41  
Concentration: 16 % v/w

### 4. FIRST AID MEASURES

#### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

### 5. FIRE-FIGHTING MEASURES

#### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Hydrogen chloride gas, iron oxides

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

#### Environmental precautions

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Do not let product enter drains.

### Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

### Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

### Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: store at 4 °C

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal protective equipment

#### Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

#### Eye protection

Safety glasses

#### Hygiene measures

General industrial hygiene practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance

Form: clear yellowish aqueous solution

### Safety data

pH:  
Melting point: 37 °C  
Boiling point: 280 - 285 °C  
Flash point: no data available

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Ignition temperature:	no data available
Lower explosion limit:	no data available
Upper explosion limit:	no data available
Water solubility:	no data available

### 10. STABILITY AND REACTIVITY

#### Storage stability

Stable under recommended storage conditions.

#### Materials to avoid

Strong oxidizing agents.

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO<sub>x</sub>), Oxides of phosphorus, Lithium oxides.

### 11. TOXICOLOGICAL INFORMATION

#### Acute toxicity

LD<sub>50</sub> Oral - rat - 900 mg/kg

#### Irritation and corrosion

no data available

#### Sensitisation

no data available

#### Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

#### Signs and Symptoms of Exposure

Dermatitis

#### Potential Health Effects

Inhalation:	May be harmful if inhaled. May cause respiratory tract irritation.
Skin:	May be harmful if absorbed through skin. May cause skin irritation.
Eyes:	Causes eye irritation.
Ingestion:	May be harmful if swallowed.
Target Organs:	Liver, Kidney

### 12. ECOLOGICAL INFORMATION

#### Elimination information (persistence and degradability)

no data available

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### Ecotoxicity effects

no data available

### Further information on ecology

no data available

## 13. DISPOSAL CONSIDERATIONS

### Product

Observe all federal, state, and local environmental regulations.

### Contaminated packaging

Dispose of as unused product.

## 14. TRANSPORT INFORMATION

### UN number / proper shipping name

ADR/RID: UN 2582 Eisen(III)chlorid, Lösung

IMDG: UN 2582 Ferric chloride solution

IATA: UN 2582 Ferric chloride solution

### Transport hazard class(es)

ADR/RID: 8

IMDG: 8

IATA: 8

### Packaging group

ADR/RID: III

IMDG: III

IATA: III

### Environmental hazards

ADR/RID: nein

IMDG Marine pollutant: no

IATA: no

## 15. REGULATORY INFORMATION

### Labelling according to EC Directives

The product does not need to be labelled in accordance with EC directives or respective national laws.

## 16. OTHER INFORMATION

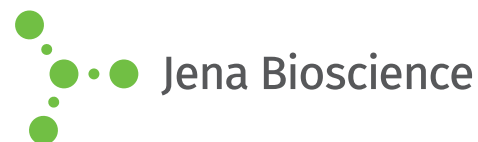
### Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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