

Trade name: Ferri chloridi solutio

Substance number: 215401

Version: 2 / CH

Date revised: 30.12.2016

Replaces Version: 1 / CH

Print date: 30.12.16

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Ferri chloridi solutio

Item No. 21540100

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

Use of the substance/preparation

Manufacture of pharmaceutical products, analytics

1.3. Details of the supplier of the safety data sheet

Address

Hänseler AG

Industriestrasse 35

9101 Herisau

Telephone no. 0041 (0)71 353 58 58

E-mail address of sdb@haenseler.ch

person responsible

for this SDS

1.4. Emergency telephone number

Switzerland :145 / Abroad +41 (0)44 251 51 51

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302

Skin Irrit. 2 H315

Eye Dam. 1 H318

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms



Signal word

Danger

Hazard statements

H302

Harmful if swallowed.

H315

Causes skin irritation.

H318

Causes serious eye damage.

Precautionary statements ***

P264.1

Wash hands thoroughly after handling.

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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.
 P310 Immediately call a POISON CENTER or doctor.
 P330 Rinse mouth.
 P501.3 Disposal in compliance with local and national regulations.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains Iron trichloride hexahydrate

SECTION 3: Composition/information on ingredients *****Molecular weight**

Value -

Hazardous ingredients (Regulation (EC) No. 1272/2008) *****Iron trichloride hexahydrate**

CAS No.	10025-77-1		
EINECS no.	231-729-4		
Concentration	>= 50		%
Classification (Regulation (EC) No. 1272/2008)			
	Met. Corr. 1		H290
	Acute Tox. 4		H302
	Skin Irrit. 2		H315
	Eye Dam. 1		H318

Further ingredients**Water**

CAS No.	7732-18-5		
EINECS no.	231-791-2		
Concentration	>= 50		%
Advice: [4]			

Advice:

[4] Voluntary information

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Ensure supply of fresh air.

After skin contact

After contact with skin, wash immediately with plenty of water. Remove contaminated, soaked clothing immediately and dispose of safely.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Seek medical advice immediately.

After ingestion

Drink water in small gulps. Summon a doctor immediately.

SECTION 5: Firefighting measures**5.1. Extinguishing media**

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Suitable extinguishing media

Extinguishing measures to suit surroundings

5.2. Special hazards arising from the substance or mixture

If a fire breaks out nearby evolution of dangerous gases possible.

5.3. Advice for firefighters**Special protective equipment for fire-fighting**

Use self-contained breathing apparatus. Wear full protective suit.

Other information

Do not discharge into surface waters/groundwater. Suppress vapours with water spray jet.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

6.2. Environmental precautions

Do not empty into drains.

6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Send in suitable containers for recovery or disposal. Clean up affected area.

SECTION 7: Handling and storage**7.1. Precautions for safe handling****Advice on safe handling**

No special requirements.

7.2. Conditions for safe storage, including any incompatibilities**Recommended storage temperature**

Value 15 - 25 °C

Requirements for storage rooms and vessels

Keep container tightly closed and dry.

SECTION 8: Exposure controls/personal protection**8.2. Exposure controls****General protective and hygiene measures**

Observe the usual precautions for handling chemicals. Do not eat, drink or smoke during work time.

Remove contaminated, soaked clothing immediately and dispose of safely. Preventative skin protection.

Wash hands and face after work.

Respiratory protection

Self-contained (insulating equipment) breathing apparatus. Short term: filter apparatus, combination filter B-P2

Hand protection

Gloves

Appropriate Material nitrile rubber - NBR

Material thickness 0.11 mm

Breakthrough time > 480 h

Eye protection

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Tightly fitting safety glasses

Body protection

protective overalls

SECTION 9: Physical and chemical properties *****9.1. Information on basic physical and chemical properties**

Form	liquid
Colour	yellow-brown
Odour	odourless
pH value ***	
Remarks	not determined
Melting point	
Remarks	No data available
Initial boiling point and boiling range	
Remarks	No data available
Flash point	
Value	°C
Remarks	Not applicable
Vapour pressure	
Remarks	Not applicable
Density	
Value	1.283 to 1.302 g/cm ³
Temperature	20 °C
Remarks	Relative Density according specification
Solubility in water	
Remarks	soluble
Solubility(ies)	
Remarks	Ethanol
Partition coefficient: n-octanol/water	
Remarks	No data available

9.2. Other information**Bulk density**

Remarks Not applicable

SECTION 10: Stability and reactivity**10.4. Conditions to avoid**

To avoid thermal decomposition, do not overheat. Protect from atmospheric moisture and water.

10.5. Incompatible materials

Metals, Strong bases, Alkaline metals

10.6. Hazardous decomposition products

Hydrogen chloride (HCl)

SECTION 11: Toxicological information**11.1. Information on toxicological effects**

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Acute oral toxicity

ATE	1'000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

Acute oral toxicity (Components)**Iron trichloride**

Species	rat	
LC50	316	mg/kg
Source	RTECS	

Skin corrosion/irritation

evaluation	irritant
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Skin corrosion/irritation (Components)**Iron trichloride**

Species	rabbit
evaluation	irritant

Serious eye damage/irritation

evaluation	irritant
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Serious eye damage/irritation (Components)**Iron trichloride**

Species	rabbit
evaluation	strongly irritant

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity**

Remarks	No data available.
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Fish toxicity (Components)**Iron trichloride**

Species	Fathead minnow (<i>Pimephales promelas</i>)	
	22	mg/l
Duration of exposure	96	h
Source	Safety Data Sheet Supplier	
Source	ECOTOX Database	

Daphnia toxicity

Remarks	No data available.
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Daphnia toxicity (Components)**Iron trichloride**

Species	Daphnia magna	
	9.6	mg/l
Source	ECOTOX Database	

12.3. Bioaccumulative potential**Partition coefficient: n-octanol/water**

Remarks	No data available
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12.5. Results of PBT and vPvB assessment**General information**

Remarks	No data available
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Evaluation of persistence and bioaccumulation potential

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Due to the distribution coefficient n-octanol/water, accumulation in organisms is not to be expected.

12.6. Other adverse effects

General information / ecology

Do not allow it to reach ground water, water bodies or sewage system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations for the product

Disposal in compliance with local and national regulations.

Disposal recommendations for packaging

Dispose of as unused product.

SECTION 14: Transport information ***

Land transport ADR/RID ***

14.1. UN number

UN 2582

14.2. UN proper shipping name

FERRIC CHLORIDE SOLUTION

14.3. Transport hazard class(es)

Class 8

Label 8

14.4. Packing group

Packing group III

Limited Quantity 5 I

Transport category 3

Tunnel restriction code E

Non-dangerous goods

Marine transport IMDG/GGVSee ***

14.1. UN number

UN 2582

14.2. UN proper shipping name

FERRIC CHLORIDE SOLUTION

14.3. Transport hazard class(es)

Class 8

14.4. Packing group

Packing group III

The product does not constitute a hazardous substance in sea transport.

Air transport ICAO/IATA ***

14.1. UN number

UN 2582

14.2. UN proper shipping name

FERRIC CHLORIDE SOLUTION

14.3. Transport hazard class(es)

Class 8

14.4. Packing group

Packing group III

The product does not constitute a hazardous substance in air transport.

SECTION 15: Regulatory information

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15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**Water Hazard Class (Germany)**

Water Hazard Class (Germany) WGK 3

Remarks Classification according to Annex 4 VwVwS

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information**Hazard statements listed in Chapter 3**

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

CLP categories listed in Chapter 3

Acute Tox. 4	Acute toxicity, Category 4
Eye Dam. 1	Serious eye damage, Category 1
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
Skin Irrit. 2	Skin irritation, Category 2

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.