

Trade name: Ferri chloridum hexahydricum

Substance number: 063520

Version: 3 / CH

Date revised: 30.12.2019

Replaces Version: 2 / CH

Print date: 30.12.19

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

### **1.1. Product identifier**

Ferri chloridum hexahydricum

Item No. 06352000

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

#### **Use of the substance/preparation**

Manufacture of pharmaceutical products

### **1.3. Details of the supplier of the safety data sheet**

#### **Address/Manufacturer**

Hänseler AG

Industriestrasse 35

9100 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.

Trade name: Ferri chloridum hexahydricum

Substance number: 063520

Version: 3 / CH

Date revised: 30.12.2019

Replaces Version: 2 / CH

Print date: 30.12.19

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 270.33 g/mol

**Hazardous ingredients \*\*\*****Iron trichloride hexahydrate**

CAS No.	10025-77-1	
EINECS no.	231-729-4	
Registration no.	01-2119497998-05	
Concentration	>= 50	%
Classification (Regulation (EC) No. 1272/2008)		
	Acute Tox. 4	H302
	Skin Irrit. 2	H315
	Eye Dam. 1	H318

**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****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**

Trade name: Ferri chloridum hexahydricum

Substance number: 063520

Version: 3 / CH

Date revised: 30.12.2019

Replaces Version: 2 / CH

Print date: 30.12.19

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 eyes and skin. Avoid dust formation. Do not inhale dust. Ensure adequate ventilation.

### **6.2. Environmental precautions**

Do not empty into drains.

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

To pick up dry. Avoid raising dust. Dampen, pick up mechanically and dispose of. Clean up affected area.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

No special measures necessary if stored and handled as prescribed.

### **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.

#### **Storage classes**

Storage class according to TRGS 510	13	Non- combustible solids
Storage category (Switzerland)	8	Caustic and corrosive substances

## **SECTION 8: Exposure controls/personal protection**

### **8.1. Control parameters**

#### **Derived No/Minimal Effect Levels (DNEL/DMEL)**

##### **Iron trichloride hexahydrate**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	2	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0.57	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	0.5	mg/m <sup>3</sup>

Trade name: Ferri chloridum hexahydricum

Substance number: 063520

Version: 3 / CH

Date revised: 30.12.2019

Replaces Version: 2 / CH

Print date: 30.12.19

Type of value	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	0.29	mg/kg

**Predicted No Effect Concentration (PNEC)****Iron trichloride hexahydrate**

Type of value	PNEC	
Type	Freshwater	
Concentration	49.5	mg/kg

Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	500	mg/l

Type of value	PNEC	
Type	Soil	
Concentration	55.5	mg/kg

**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**

Use breathing apparatus in dust-laden atmosphere. Short term: filter apparatus, combination filter B-P2

**Hand protection**

Gloves	
Appropriate Material	nitrile rubber - NBR
Material thickness	0.4 mm
Breakthrough time	> 480 h

**Eye protection**

Tightly fitting safety glasses

**Body protection**

protective overalls

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

<b>Form</b>	solid
<b>Colour</b>	yellow-brown
<b>Odour</b>	Chlorine.
<b>Melting point</b>	
Value	37 °C
<b>Initial boiling point and boiling range</b>	
Remarks	Not applicable
<b>Flash point</b>	

Trade name: Ferri chloridum hexahydricum

Substance number: 063520

Version: 3 / CH

Date revised: 30.12.2019

Replaces Version: 2 / CH

Print date: 30.12.19

Remarks Not applicable

**Vapour pressure**

Temperature 20 °C

Remarks No data available

**Density**

Remarks No data available

**Solubility in water**

Value 920 g/l

Temperature 20 °C

**9.2. Other information****Bulk density**Value 600 to 1200 kg/m<sup>3</sup>**SECTION 10: Stability and reactivity****10.1. Reactivity**

Corrosive to metals.

**10.2. Chemical stability**

No decomposition if stored and applied as directed.

**10.3. Possibility of hazardous reactions**

Possible incompatibility with materials listed under section 10.5.

**10.4. Conditions to avoid**

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

**10.5. Incompatible materials**

Explosive, Alkaline metals, Metals

**10.6. Hazardous decomposition products**

Hydrogen chloride (HCl)

**SECTION 11: Toxicological information \*\*\*****11.1. Information on toxicological effects****Acute oral toxicity \*\*\***ATE 500 mg/kg  
Method calculated value (Regulation (EC) No. 1272/2008)**Acute oral toxicity (Components)****Iron trichloride**Species rat  
LC50 316 mg/kg

Source RTECS

**Acute dermal toxicity (Components)****Iron trichloride**Species rat  
LD50 > 2000 mg/kg**Skin corrosion/irritation (Components)****Iron trichloride**Species rabbit  
evaluation irritant

Trade name: Ferri chloridum hexahydricum

Substance number: 063520

Version: 3 / CH

Date revised: 30.12.2019

Replaces Version: 2 / CH

Print date: 30.12.19

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

Species	rabbit
evaluation	strongly irritant

**Mutagenicity (Components)****Iron trichloride**

evaluation	No mutagenicity in the Ames-test.
------------	-----------------------------------

**SECTION 12: Ecological information \*\*\*****12.1. Toxicity****Fish toxicity (Components)****Iron trichloride**

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

**Iron trichloride**

Species	sun perch
LC50	20.3 mg/l
Duration of exposure	96 h

**Daphnia toxicity (Components)****Iron trichloride**

Species	Daphnia magna
EC50	9.6 mg/l
Duration of exposure	48 h
Method	OECD 202

**Algae toxicity (Components)****Iron trichloride**

Species	Pseudokirchneriella subcapitata
ErC50	6.9 mg/l
Duration of exposure	72 h
Method	OECD 201

**12.2. Persistence and degradability****General information**

Not applicable

**12.3. Bioaccumulative potential****General information**

No data available

**12.4. Mobility in soil****General information**

No data available

**12.5. Results of PBT and vPvB assessment****Evaluation of persistence and bioaccumulation potential \*\*\***

The Substance doesn't meets PBT/vPvB-criteria

**12.6. Other adverse effects**

Trade name: Ferri chloridum hexahydricum

Substance number: 063520

Version: 3 / CH

Date revised: 30.12.2019

Replaces Version: 2 / CH

Print date: 30.12.19

**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	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number	Non-dangerous goods	The product does not constitute a hazardous substance in sea transport.	The product does not constitute a hazardous substance in air transport.

**SECTION 15: Regulatory information \*\*\*****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Water Hazard Class (Germany) \*\*\***

Water Hazard Class (Germany)	WGK 1
Identification number	515
Remarks	Value taken from the literature

**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**

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
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.