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

· **Informations to product No. 2228**

· **Product name:**

Eisen(III)-chlorid-Hexahydrat

Ferri chloridum hexahydricum

Iron(III)-chloride hexahydrate

· **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH

Herderstr. 31

40721 Hilden

Tel.: 02103/4994-0

Fax: 02103/32360

e-mail: info@caelo.de

· **Emergency telephone:**

Giftinformationszentrum Mainz

Langenbeckstr. 1, 55131 Mainz

Tel.: 06131/19240

· **Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

· **Application of the substance / mixture:**

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

2 Hazards identification

· **GHS-Labeling Elements:**



· **Signal word:** Danger

· **H-Phrases:**

H302 Harmful if swallowed

H315 Causes skin irritation

H318 Causes serious eye damage

· **P-Phrases:**

P280 Wear protective gloves/protective clothing/eye protection/face protection

P305 IF IN EYES:


P351 Rinse continuously with water for several minutes

P313 Get medical advice/attention

Acute Tox. 4

Skin Irrit. 2

Eye Dam. 1

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3 Composition / information on ingredients

• **Chemical characterization:**

CAS-No. Substance name

10025-77-1 Iron(III)-chloride hexahydrate

• **EINECS-No.:** 231-729-4

• **REACH-Reg.-No.:** 01-2119497998-05-0000

• **INCI-Name:** Ferric Chloride

4 First aid measures

- **after inhalation:** Bring the person out of the contaminated area to fresh air, Seek medical help immediately.
- **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open , seek medical advice, even if no immediate symptoms are observed.
- **after swallowing:** Drink plenty of water or mixture of eggs with milk. Induce vomiting. Seek medical advice.
- **Medical advice:**
- **The following symptoms might occur:** After swallowing of big quantities: Vomiting, Diarrhea, Drop in blood pressure.

5 Fire-fighting measures


- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Not combustible. In case of fire dangerous vapours/gases can be generated: Hydrogen chloride.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations. Precipitate released vapours with water.

6 Accidental release measures:

- **Personal protective measures:** Avoid dust formation and contact with substance.
- **Environmental protective measures:** Prevent from entering into drains.
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Clean up with water.

7 Handling and storage

- **Handling:**
- **Advice on safe handling:** No special measures required.
- **Storage:**

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• **Requirements for storage areas and containers:**

Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).

Protect from light.

• **Advices on common storage:** Not required.

8 Exposure controls / personal protective equipment

• **Personal protective equipment:**

• **General protective and hygiene measures:**

Keep away from food, beverages and animal food.

Take off contaminated clothes immediately.

Wash hands before breaks and after work.

Avoid contact with eyes and skin.

Preventive skin protection recommended.

• **Respiratory protection:** Dust protection mask.

• **Hand protection:** Protection gloves of latex or rubber.

• **Eye protection:** Safety glasses.

9 Physical and chemical properties

• **Form:** solid

• **Colour:** yellow - brown

• **Odour:** odourless or faintly pungent odour.

• **Melting point / melting range:** 37 °C

• **Density:**

• **Bulk density:** (20 °C) 600 - 1200 kg/m³

• **Solubility in / Miscibility with**

• **Water:** (20 °C) 920 g/l

• **pH-range:** (10 g/l, 25 °C) ca. 1,8

10 Stability and reactivity

• **Materials to avoid:** Alkali metals, ethylene oxide.

• **Conditions to avoid:** Avoid strong heating.

• **Hazardous decomposition products:** Hydrogen chloride, Chlorine.

11 Toxicological information

• **Acute toxicity:**

LD/LD50-data relevant for hazard classification:

10025-77-1 Iron(III)-chloride hexahydrate

Oral: LD50: 316 mg/kg (rat)


Oral: LDLo: 900 mg/kg (rat)

• **Primary irritant effect:**

• **on skin:** Strong irritations

• **on eyes:** Strong irritations with danger of serious eye damages.

• **after swallowing:** Irritations.

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- **Sub-acute / chronic toxicity:** Damage of kidneys.

12 Ecological information

- **Aquatic toxicity:**

Fishes: Pimephales promelas LC50 22 mg/l/96h (anhydrous substance)

Daphnia: Daphnia magna EC50 9,6 mg/l/48h (anhydrous substance)

Product reacts with water to hydrochloric acid. Harmful effect caused by pH-shifting. Fatal for fishes above 25 mg/l HCl.

For soluted iron compounds generally:

Fishes toxic above 0,9 mg/l at pH 6,5-7,5 fatal above 1,0 mg/l at pH 5,5-6,7

Upper limit for fish life: 50 mg/l iron.

In alkaline environment precipitated iron ions cause mechanical damages on water organisms.

- **General advices:** Prevent from entering sewage water or drainage ditch undiluted or unneutralized.

- **log p(O/W):** (24 °C) -4

- **Water hazard class:** 1 (VwVwS): slightly hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation:** Disposal according to local regulations as pharmaceutical waste.
- **Empty contaminated packaging:**
- **Recommendation:** Disposal according to the local regulations.

14 Transport informations

- **Land transport according to ADR:**
Not classified as dangerous in the meaning of transport regulations.

15 Regulatory information

- **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**

The product is classified and labelled according to GHS-regulations.

- **Hazard symbols:** GHS05, GHS07

- **Signal word:** Danger

- **H-Phrases:**

H302 Harmful if swallowed

H315 Causes skin irritation

H318 Causes serious eye damage

- **P-Phrases:**

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- **National regulations (Germany):**

- **Water hazard class:** see chapter 12

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· **Storage class TRGS 510:** 8B

16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

· **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.