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

· **Informations to product No. 2240**

· **Product name:**

Eisen(II)-sulfat-Heptahydrat, cryst.

Ferrosi sulfas heptahydricus

Iron(II)-sulfate heptahydrate

· **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: Warning**

· **H-Phrases:**

H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

· **P-Phrases:**

P301 IF SWALLOWED:

P312 Call a POISON CENTER or doctor/physician if you feel unwell


P305 IF IN EYES:

P351 Rinse continuously with water for several minutes

Acute Tox. 4

Skin Irrit. 2

Eye Irrit. 2

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3 Composition / information on ingredients

• **Chemical characterization:**

CAS-No.: 7782-63-0 Iron(II)-sulfate heptahydrate

• **EINECS-No.:** 231-753-5

• **REACH Reg. No.:** 01-2119513203-57-0000

• **INCI-Name:** Ferrous Sulfate

4 First aid measures

- **after inhalation:** Fresh air
- **after skin contact:** Wash away with water and soap immediately and rinse off.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open. If irritation continues, call in ophthalmologist.
- **after swallowing:** Drink plenty of water. Induce vomiting. Seek medical advice.

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: Sulphur oxides.
- **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.

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:** No special requirements.
- **Advice on safe handling:**
Avoid contact with eyes and skin.
Suitable container material: Stainless steel, plastic.
Substance is hygroscopic.
- **Informations to fire or explosion protection:** No special measures required.
- **Storage:**
- **Requirements for storage areas and containers:** Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
- **Advices on common storage:** Not required.
- **Additional informations to storage conditions:** Keep container tightly closed.

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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.
- **Respiratory protection:** Dust protection mask required if dust is released..
- **Hand protection:** Protection gloves of latex or rubber.
- **Eye protection:** Safety glasses.

9 Physical and chemical properties

- **Form:** solid
- **Colour:** light green
- **Odour:** odourless
- **Melting point / melting range:** > 60 °C
- **Boiling point / boiling range:** not determined
- **Decomposition temperature:** >400 °C
- **Density:** (20 °C) 1,89 g/cm³
- **Solubility in / Miscibility with**
- **Water:** (20 °C) 256 g/l
- **pH-range:** (20 °C, 50 g/l): 3 - 4

10 Stability and reactivity


- **Thermal decomposition / conditions to avoid:** No decomposition during appropriate use.
Releases crystal water on heating.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** Sulphur oxides

11 Toxicological information

- **Acute toxicity:**
iron(II)-sulfate, anhydrous: LD50 (oral, Rat): 319 mg/kg
- **Primary irritating effect:**
- **on skin:** Irritant effect.
- **on eyes:** Irritant effect.
- **after swallowing:** After swallowing of big quantities: Vomiting, Diarrhea, Drop in blood pressure.
Harmful effect on kidneys and liver.

12 Ecological information

- **Aquatic toxicity:**
Fish: LC50 *Poecilia reticulata*: 925 mg/l; 96 h (IUCLID)
Daphnia: EC50 *Daphnia magna*: 152 mg/l; 48 h (anhydrous) (IUCLID)

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Bacteria: EC0 Pseudomonas fluorescens: 100 mg/l; 24 h (wasserfreie Substanz) (IUCLID)

- **General advices:** Prevent from leaking into ground water, environment waters or drainage.
- **Water hazard class:** 1 (VwVwS): slightly hazardous for water.

13 Disposal considerations

- **Product:**
- **Recommendation:** Disposal according to local regulations as pharmaceutical waste or inorganic laboratory chemicals.
- **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:** GHS07
- **Signal word:** Warning
- **H-Phrases:**
H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation
- **P-Phrases:**
P301 IF SWALLOWED:
P312 Call a POISON CENTER or doctor/physician if you feel unwell
P305 IF IN EYES:
P351 Rinse continuously with water for several minutes
- **National regulations (Germany):**
- **Water hazard class:** see chapter 12
- **Storage class TRGS 510:** 13

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.