


<p>Page 1 of 4</p> <p>Print Date 27.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Eisen (III)-sulfat-Hydrat</p>	 <p>Revision Date 27.11.2018</p>
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1 Identification of the substance/mixture and of the company/undertaking

· **Informations to product No. 2244**

· **Product name:**

Eisen (III)-sulfat-Hydrat
Iron(III)-sulfate
Ferri sulfas hydricus, Ferrum (III) sulfuricum

· **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:**

H315 Causes skin irritation

H319 Causes serious eye irritation


· **P- Phrases:**

P305 IF IN EYES:

P351 Rinse continuously with water for several minutes

Skin Irrit. 2

Eye Irrit. 2

Page 2 of 4 Print Date 27.11.2018	Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Eisen (III)-sulfat-Hydrat	 Revision Date 27.11.2018
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3 Composition / information on ingredients

• **Chemical characterization:**

CAS-No. Substance name

15244-10-7 Iron(III)-sulfate

• **EINECS-No.:** 604-849-3

• **REACH-Reg.-No.:** 01-2119513203-59-0000

• **INCI-Name:** -

4 First aid measures

- **after inhalation:** Fresh air.
- **after skin contact:** Wash off with water.
- **after eye contact:** Rinse out with plenty of water with the eyelid wide open.
- **after swallowing:** Drink 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, but not flammable. In case of fire dangerous vapours/gases can be generated: Sulphur oxides.
- **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.
- **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:** none

8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **General protective and hygiene measures:** The usual precautions during handling of chemicals are to observe.
- **Respiratory protection:** If dust is generated: Dust protection mask.

<p>Page 3 of 4</p> <p>Print Date 27.11.2018</p>	<p>Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)</p> <p>Eisen (III)-sulfat-Hydrat</p>	 <p>Revision Date 27.11.2018</p>
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- **Hand protection:** Protection gloves of latex or rubber
- **Eye protection:** Safety glasses

9 Physical and chemical properties

- **Form:** solid
- **Colour:** yellow
- **Odour:** odourless
- **Melting point / melting range:** 480 °C
- **Density:** Not determined.
- **Solubility in / Miscibility with**
- **Water** in neutral water not readily soluble with precipitation of iron(III)hydroxide. In highly acid environment readily soluble.
- **pH-range:** (50 g/l, 20 °C) 1,4

10 Stability and reactivity

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

11 Toxicological information


- **Acute toxicity:**
- **Primary irritant effect:**
On skin: Irritant
On eyes: Irritant
- **after swallowing:** Illness und Vomiting.
After resorption of big quantities: Cardiovascular disorder. Harmful effect on liver and kidneys.

12 Ecological information

- **Aquatic toxicity:**
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.
- **Water hazard class:** 1 (self classification): 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.

Page 4 of 4 Print Date 27.11.2018	Material Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Eisen (III)-sulfat-Hydrat	 Revision Date 27.11.2018
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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:**

H315 Causes skin irritation

H319 Causes serious eye irritation

- **P- Phrases:**

P305 IF IN EYES:

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- **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.