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-Labelling 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
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.
· 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

· Thermical 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.
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:
    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.