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

· **Informations to product No. 2235**

· **Product name:**

Eisen(III)-oxid schwarz
Ferrum oxydatum nigrum, E172
Iron(III)-oxide

· **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

· **Hazards identification:** The substance is not classified as dangerous according to European Union legislation.

3 Composition / information on ingredients

· **Chemical characterization:**

CAS-No. Substance name

1309-37-1 Iron(III)-oxide (E 172)

· **EINECS-No.:** 215-168-2

· **C.I.Nr.:** 77499

· **REACH Reg. No.:** 01-2119457614-35-0000

· **INCI-Name:** Iron Oxide


4 First aid measures

· **after inhalation:** Fresh air.

· **after skin contact:** Wash away with water.

· **after eye contact:** Rinse out with plenty of water with the eyelid wide open. Irritations are caused merely by mechanical effects. Call in ophthalmologist if feeling unwell continuously.

· **after swallowing:** Rinse mouth, drink plenty of water.

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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.
- **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.
- **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:**
- **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:** none

8 Exposure controls / personal protective equipment

Components with limit values that require monitoring at the workplace:


1309-37-1 Iron(III)-oxide (100,0%)

MAK: 6 F mg/m³ (Dust)

- **Personal protective equipment:**
- **General protective and hygiene measures:**
The usual precaution measures during handling of chemicals are to observe.
- **Respiratory protection:** Dust protection mask.
- **Hand protection:** Not required.
- **Eye protection:** Safety glasses.

9 Physical and chemical properties

- **Form:** Powder
- **Colour:** black-grey
- **Odour:** odourless
- **Melting point / melting range:** >1000 °C
- **Boiling point / boiling range:** not determined
- **Flammability (solid, vapours):** The product is not flammable.
- **Density:** (20 °C) 5 g/cm³
- **Bulk density:** 600 - 1000 kg/m³
- **Solubility in / Miscibility with**

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- **Water:** not soluble
- **Additional information:** Soluble in strong mineral acids by forming iron(III)-salts

10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:** No decomposition during appropriate use.
- **Materials to avoid:** Strong mineral acids
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** none.

11 Toxicological information

- **Acute toxicity:**
LD/LD50-data relevant for hazard classification:
1309-37-1 Iron(III)-oxide
Oral: LD50: >5000 mg/kg (rat)
- **Primary irritant effect:**
- **on skin:** Not irritant
- **on eyes:** Not irritant
- **Additional toxicological informations:** In case of appropriate handling and usage the product does not cause harmful effects.

12 Ecological information


- **Information about elimination (persistence and degradability):**
In water not soluble. The product can be separated from water by sedimentation.
- **Ecotoxicological effects:**
- **Behaviour in sewage plants:** If small quantities are entering into sewage plants, perturbations of the activity of biodegrading organisms are not likely
- **Water hazard class:** nwg (VwVwS): not 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.

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15 Regulatory information

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

The product does not need to be labelled according to GHS-regulations.

· **National regulations (Germany):**

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

· **Storage class TRGS 510:** 11

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.