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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 26.04.2022

Version number 2.00

Revision: 26.04.2022

#### 1 Identification of the substance/mixture and of the company/undertaking Product identifier

- Trade name: Ferric sulfate hydrate
- Article number: 2244
- · CAS Number:
- 15244-10-7
- · EC number:
- 604-849-3
- · Registration number The substance is exempt from REACH-registration.
- Relevant identified uses of the substance or mixture and uses advised against
- · Application of the substance / the mixture Ingredient for pharmaceutical drugs
- $\cdot$  Uses advised against No relevant information available.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: CAELO Caesar & Loretz GmbH Herderstr. 31 D-40721 Hilden GERMANY
- Further information obtainable from:
   E-mail: info@caelo.de
   Tel.: +49210349940 (during regular opening hours)
- Emergency telephone number: Poison Information Center Bonn Venusberg-Campus 1, 53127 Bonn Tel: +49 (0) 228-192400

# 2 Hazards identification

# Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008

Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

· Label elements

- · Labelling according to Regulation (EC) No 1272/2008
- The substance is classified and labelled according to the CLP regulation.
- · Hazard pictograms





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#### Trade name: Ferric sulfate hydrate

	· Signal word Dan	ner		
	· Hazard statemer			
	wallowed.			
	H315 Causes ski			
H318 Causes serious eye damage.				
· Precautionary statements				
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact leipresent and easy to do. Continue rinsing.				
	P310	Immediately call a POISON CENTER/doctor.		
	P321	Specific treatment (see on this label).		
	P330	Rinse mouth.		
	P362+P364	Take off contaminated clothing and wash it before reuse.		
	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.		
	- · · ·	•		

Other hazards

· Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

#### 3 Composition/information on ingredients

- · Chemical characterisation: Substances
- · CAS No. Description

15244-10-7 sulfuric acid, iron(3+) salt (3:2), hydrate

- · Identification number(s)
- · EC number: 604-849-3

# 4 First aid measures

- · Description of first aid measures
- · After inhalation: Bring the person out of the contaminated area to fresh air.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.
- · Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

# 5 Firefighting measures

#### · Extinguishing media

#### • Suitable extinguishing agents: All regular extinguishing media can be used.

Use fire extinguishing methods suitable to surrounding conditions.

• Special hazards arising from the substance or mixture not combustible

In case of fire, the following can be released:



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Sulfur oxide (SxOy)

- Advice for firefighters
- Protective equipment: In case of fire wear suitable protective clothes and respiratory protection.
- Additional information
- Prevent from entering into drains. Fire residues must be disposed in accordance with official regulations.

# 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Avoid formation of dust. Avoid contact with the substance.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:** Take up dry. Clean up with water.

Dispose contaminated material as waste according to item 13.

Reference to other sections
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

# 7 Handling and storage

- · Handling:
- Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles:
- Tightly closed. Store at a dry place. At room temperature (+15°C to +25°C).
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: No further information
- Storage class: TRHS 510: 13 non-combustible solids
- Specific end use(s) No further relevant information available.

# 8 Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

· Control parameters

· Ingredients with limit values that require monitoring at the workplace: Not required.

- · Exposure controls
- Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the skin. Avoid contact with the eves and skin.

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quality and varies from manufacturer to n · Penetration time of glove material	not only depend on the material, but also on furth		
9 Physical and chemical properties			
Information on basic physical and che			
· General Information			
· Appearance: Form:	Solid		
Colour:	Yellow		
· Odour:	Odourless		
· Odour threshold:	Not determined.		
· pH-value (50 g/l) at 20 °C:	1.4		
<ul> <li>Change in condition Melting point/freezing point: Initial boiling point and boiling range</li> </ul>	480 °C 9: Undetermined.		
· Flash point:	Not applicable.		
Flammability (solid, gas):	Product is not flammable.		
Decomposition temperature:	Not determined.		
Auto-ignition temperature:	Not determined.		
· Explosive properties:	Product does not present an explosion hazard.		
<ul> <li>Explosion limits: Lower: Upper:</li> </ul>	Not determined. Not determined.		
· Vapour pressure:	Not applicable.		
<ul> <li>Density:</li> <li>Relative density</li> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	Not determined. Not determined. Not applicable. Not applicable.		
<ul> <li>Solubility in / Miscibility with water:</li> </ul>	Not determined.		
· Partition coefficient: n-octanol/water:	Not determined.	(Contd. on page 5)	

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#### Trade name: Ferric sulfate hydrate

Viscosity:
 Dynamic:
 Kinematic:

Not applicable. Not applicable.

· Other information

No further relevant information available.

# 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided:
- No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: Sulphur oxides (SOx)

#### **11** Toxicological information

- · Information on toxicological effects
- · Acute toxicity
- Harmful if swallowed.
- · Primary irritant effect:
- Skin corrosion/irritation
- Causes skin irritation.
- · Serious eye damage/irritation
- Causes serious eye damage.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · Additional toxicological information:
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.

# 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:
- · **Bioaccumulative potential** No further relevant information available.
- $\cdot$  Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

# 13 Disposal considerations

- · Waste treatment methods
- Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- Recommendation: Disposal must be made according to local regulations.

#### **14 Transport information**

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· UN-Number	Not subject to transport regulations.
<ul> <li>ADR, IMDG, IATA</li> <li>UN proper shipping name</li> </ul>	not regulated
· ADR, IMDG, IATA	not regulated
Transport hazard class(es)	hot rogalatoù
· ADR, ADN, IMDG, IATA	
Class	not regulated
Packing group	
· ADR, IMDG, IATA	not regulated
• Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
<ul> <li>Transport in bulk according to Annex I</li> </ul>	l of
Marpol and the IBC Code	Not applicable.

# **15 Regulatory information**

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (ANNEX XIV) Not listed
- · REGULATION (EC) No 1907/2006 ANNEX XVII Not listed

· National regulations:

- Storage of hazardous substances in in nonstationary vessels (TRGS 510) (Germany) TRHS 510: 13 non-combustible solids
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.



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#### **16 Other information**

The information provided is based on our current level of knowledge. This MSDS has been compiled and is exclusively for this product intended. Reasons for alterations This version replaces all old versions. Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 \* \* Data compared to the previous version altered. GB —