Ν		Page 1/7
NC.	Safety data sheet according to 1907/2006/EC, Article 31	
Printing date 17.07.2021		Revision: 17.07.2021
SECTION 1: Identif	fication of the substance/mixture and of the o	company/undertaking
· 1.1 Product identifier		
· Trade name: Iron(III) o.	xyhydroxide in water at pH = 3.0 +- 0.5 (FEO-W320)	-
 Item number: 26-2758 CAS Number: 20344-49-4 EC number: 243-746-4 I.2 Relevant identified un No further relevant information 	us es of the substance or mixture and uses advised aga mation available.	inst
• 1.3 Details of the supplie • Manufacturer/Supplier: Strem Chemicals, Inc. 7 Mulliken Way NEWBURYPORT, MA 01 USA info@strem.com		
• 1.4 Emergency telephone EMERGENCY: CHEMT	t ainable from: Technical Department t e number: TREC: + 1 (800) 424-9300 times: +1 (978) 499-1600	
SECTION 2: Hazard	ds identification	
• 2.1 Classification of the • Classification according GHS05 corros	to Regulation (EC) No 1272/2008	
Skin Corr. 1B H314 Ca	uses severe skin burns and eye damage.	
	Regulation (EC) No 1272/2008 ed and labelled according to the CLP regulation.	
GHS05		
• Signal word Danger		

CHEMICALS,

Hazard-determining components of labelling: iron hydroxide oxide
Hazard statements
H314 Causes severe skin burns and eye damage.
Precautionary statements
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P235 Keep cool.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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Trade name: Iron(III) oxyhydroxide in water at pH = 3.0 +- 0.5 (FEO-W320)

	(Contd. of page 1)
P262	Do not get in eyes, on skin, or on clothing.
P303+P361-	+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/
	shower.
P305+P351-	+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
· 2.3 Other ha	zards
· Results of Pl	BT and vPvB assessment
· PBT: Not ap	plicable.
• vPvB: Not ap	pplicable.

SECTION 3: Composition/information on ingredients

- 3.1 Chemical characterisation: Substances
 CAS No. Description
 20344-49-4 iron hydroxide oxide
- · Identification number(s)
- EC number: 243-746-4

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- General information: Immediately remove any clothing soiled by the product.
- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · 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.
- 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture
- During heating or in case of fire poisonous gases are produced.
- 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Mount respiratory protective device. Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: No special measures required.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralising agent.

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Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
6.4 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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

• Information about fire - and explosion protection: Keep respiratory protective device available.

· 7.2 Conditions for safe storage, including any incompatibilities

· Storage: Keep cool.

• Requirements to be met by storerooms and receptacles: No special requirements.

• Information about storage in one common storage facility: Not required.

· Further information about storage conditions: Keep container tightly sealed.

• Recommended storage temperature: Store at temperatures not exceeding -18 °C. Keep cool.

• 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

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

· 8.1 Control parameters

- · Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- · 8.2 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 eyes and skin.

• Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

• Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation • Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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Printing date 17.07.2021 Revision: 17.07.2021 Trade name: Iron(III) oxyhydroxide in water at pH = 3.0 +- 0.5 (FEO-W320) (Contd. of page 3) · Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. • Eye protection: Tightly sealed goggles · 9.1 Information on basic physical and chemical properties · General Information · Appearance: Form: Liquid Colour: Not determined. · Odour: **Odourless** · Odour threshold: Not determined. · pH-value: Not determined. · Change in condition *Melting point/freezing point:* Undetermined. Initial boiling point and boiling range: Undetermined. · Flash point: Not applicable. · Flammability (solid, gas): Not determined. · Ignition temperature: Not determined. **Decomposition temperature:** Not determined. · Auto-ignition temperature: · Explosive properties: Product does not present an explosion hazard. · Explosion limits: Lower: Not determined. Upper: Not determined. · Vapour pressure: Not determined. • Density at 20 •C: 1.19 g/cm³ · Relative density Not determined. · Vapour density Not determined. Not determined. · Evaporation rate · Solubility in / Miscibility with Not miscible or difficult to mix. water: · Partition coefficient: n-octanol/water: Not determined. · Viscosity: Dvnamic: Not determined. Kinematic: Not determined. · Solvent content: 0.0 % **Organic** solvents: VOC (EC) 0.00 % • 9.2 Other information No further relevant information available.

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Trade name: Iron(III) oxyhydroxide in water at pH = 3.0 +- 0.5 (FEO-W320)

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SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- Primary irritant effect:
- · Skin corrosion/irritation
- Causes severe skin burns and eye damage.
- Serious eye damage/irritation
- Causes severe skin burns and eye damage.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · 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.

SECTION 12: Ecological information

- · 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Must not reach sewage water or drainage ditch undiluted or unneutralised.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- **vPvB:** Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

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

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Trade name: Iron(III) oxyhydroxide in water at pH = 3.0 + 0.5 (FEO-W320) (Contd. of page 5) · Uncleaned packaging: · Recommendation: Disposal must be made according to official regulations. **SECTION 14: Transport information** · 14.1 UN-Number UN1760 · ADR, IMDG, IATA · 14.2 UN proper shipping name 1760 CORROSIVE LIQUID, N.O.S. $\cdot ADR$ CORROSIVE LIQUID, N.O.S. · IMDG, IATA · 14.3 Transport hazard class(es) · ADR, IMDG, IATA · Class 8 Corrosive substances. · Label 8 · 14.4 Packing group · ADR, IMDG, IATA Ш · 14.5 Environmental hazards: · Marine pollutant: No · 14.6 Special precautions for user Warning: Corrosive substances. · EMS Number: F-A, S-B· Stowage Category Α · Stowage Code SW2 Clear of living quarters. · 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. • Transport/Additional information: $\cdot ADR$ · Limited quantities (LQ) 5L \cdot Excepted quantities (EQ) Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml · IMDG · Limited quantities (LQ) 5LCode: E1 · Excepted quantities (EQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml · UN ''Model Regulation'': UN 1760 CORROSIVE LIQUID, N.O.S., 8, III

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Trade name: Iron(III) oxyhydroxide in water at pH = 3.0 +- 0.5 (FEO-W320)

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SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Technical Department.
- · Contact: Technical Director
- · Abbreviations and acronyms:

ADR: Accord européen sur le transport 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)
- *VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic*
- *vPvB: very Persistent and very Bioaccumulative*
- Skin Corr. 1B: Skin corrosion/irritation Category 1B