Printing date 07/17/2021

Reviewed on 07/17/2021

1 Identification

- · Product name
- · Trade name: <u>Iron(II)</u> carbonate, tech. gr. (Siderite)
- Item number: 26-2630
- CAS Number: 14476-16-5
- · Details of the supplier of the safety data sheet

 Manufacturer/Supplier: Strem Chemicals, Inc.
7 Mulliken Way NEWBURYPORT, MA 01950 USA info@strem.com

 Information department: Technical Department
Emergency telephone number: EMERGENCY: CHEMTREC: +1 (800) 424-9300 During normal opening times: +1 (978) 499-1600

2 Hazard(s) identification

· Classification of the substance or mixture

GHS07

Skin Irrit. 2H315Causes skin irritation.Eye Irrit. 2AH319Causes serious eye irritation.STOT SE 3H335May cause respiratory irritation.

· Label elements

· GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Warning

· Hazard-determining components of labeling: Iron(II) carbonate, tech. gr. · Hazard statements H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. · Precautionary statements P262 Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. P280 P305+P351+P338 If in eves: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. (Contd. on page 2)

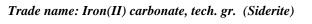
d. on page 2)

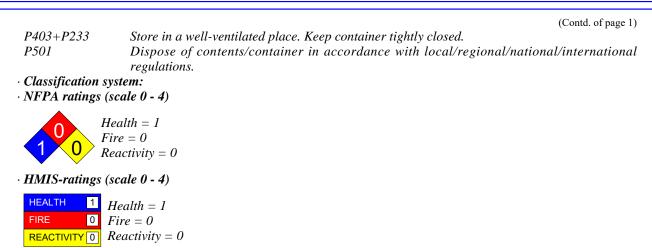
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Safety Data Sheet according to OSHA HCS

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· Other hazards

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- **vPvB:** Not applicable.

3 Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 14476-16-5 Iron(II) carbonate, tech. gr.

4 First-aid measures

- · Description of first aid measures
- 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. If symptoms persist, consult a doctor.
- · After swallowing: If symptoms persist consult doctor.
- 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 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.

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(Contd. of page 2)

Trade name: Iron(II) carbonate, tech. gr. (Siderite)

| · Environmental precautions | : No special | measures required. |
|-----------------------------|--------------|--------------------|
|-----------------------------|--------------|--------------------|

· Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13. Ensure adequate ventilation.

• **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.

· Protective Action Criteria for Chemicals

· PAC-1:

Substance is not listed.

· PAC-2:

Substance is not listed.

• PAC-3:

Substance is not listed.

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- 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 receptacle tightly sealed.
- *Specific end use(s)* No further relevant information available.

8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · 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.
- · Breathing equipment: A NIOSH approved respirator in accordance with 29 CFR 1910.134.
- Protection of hands:



Protective gloves

(Contd. on page 4)

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(Contd. of page 3)

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 \cdot *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.

· 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 Physical and chemical properties

| General Information Appearance: | | |
|-------------------------------------|---|--|
| Form: | Powder | |
| Color: | Whitish | |
| Odor: | Odorless | |
| Odor threshold: | Not determined. | |
| pH-value: | Not determined. | |
| Change in condition | | |
| Melting point/Melting range: | Undetermined. | |
| Boiling point/Boiling range: | Undetermined. | |
| Flash point: | Not applicable. | |
| Flammability (solid, gaseous): | Not determined. | |
| Ignition temperature: | | |
| Decomposition temperature: | Not determined. | |
| Auto igniting: | Not determined. | |
| Danger of explosion: | Product does not present an explosion hazard. | |
| Explosion limits: | | |
| Lower: | Not determined. | |
| Upper: | Not determined. | |
| Vapor pressure: | Not determined. | |
| Density: | Not determined. | |
| Relative density | Not determined. | |
| Vapor density | Not determined. | |
| Evaporation rate | Not determined. | |
| Solubility in / Miscibility with | | |
| Water: | Not miscible or difficult to mix. | |



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Trade name: Iron(II) carbonate, tech. gr. (Siderite)

| | | (Contd. of page 4 |
|-----------------------------------|--|-------------------|
| · Partition coefficient (n-octand | ol/water): Not determined. | |
| · Viscosity: | | |
| Dynamic: | Not determined. | |
| Kinematic: | Not determined. | |
| · Solvent content: | | |
| Organic solvents: | 0.0 % | |
| VOC content: | 0.0 g/l / 0.00 lb/gl | |
| • 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: No dangerous decomposition products known.

11 Toxicological information

· Information on toxicological effects

- · Acute toxicity:
- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- on the eye: Irritating effect.
- · Sensitization: No sensitizing effects known.
- \cdot Additional toxicological information:
- · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

12 Ecological information

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- General notes: Not known to be hazardous to water.

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(Contd. of page 5)

Trade name: Iron(II) carbonate, tech. gr. (Siderite)

· 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 of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

| not regulated |
|-----------------|
| not regulated |
| |
| not regulated |
| not regulated |
| |
| No |
| Not applicable. |
| of |
| Not applicable. |
| - |

15 Regulatory information

 \cdot Safety, health and environmental regulations/legislation specific for the substance or mixture \cdot Sara

· Section 355 (extremely hazardous substances):

Substance is not listed.

· Section 313 (Specific toxic chemical listings):

Substance is not listed.

· TSCA (Toxic Substances Control Act):

Substance is not listed.

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· Proposition 65

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Trade name: Iron(II) carbonate, tech. gr. (Siderite)

(Contd. of page 6)

· Chemicals known to cause cancer:

Substance is not listed.

 \cdot Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

· Chemicals known to cause developmental toxicity:

Substance is not listed.

· Carcinogenic categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

Substance is not listed.

· GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS). • *Hazard pictograms*



· Signal word Warning

| · Hazard-determ | ining components of labeling: |
|-------------------|--|
| Iron(II) carbone | ate, tech. gr. |
| • Hazard stateme | nts |
| H315 Causes sk | in irritation. |
| H319 Causes se | rious eye irritation. |
| H335 May caus | e respiratory irritation. |
| · Precautionary s | statements |
| P262 | Do not get in eyes, on skin, or on clothing. |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P305+P351+P | 338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P403+P233 | Store in a well-ventilated place. Keep container tightly closed. |
| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. |
| <u>C1</u> 1 | A Chamie I Safety Assessment has not here and here |

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

(Contd. on page 8)

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Trade name: Iron(II) carbonate, tech. gr. (Siderite)

| | (Contd. of page 7) |
|--|----------------------------------|
| • Contact: Technical Director | |
| · Date of preparation / last revision 07/17/2021 / - | |
| · Abbreviations and acronyms: | |
| ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreeme | ent concerning the International |
| Carriage of Dangerous Goods by Road) | 0 |
| IMDG: International Maritime Code for Dangerous Goods | |
| DOT: US Department of Transportation | |
| IATA: International Air Transport Association | |
| ACGIH: American Conference of Governmental Industrial Hygienists | |
| CAS: Chemical Abstracts Service (division of the American Chemical Society) | |
| NFPA: National Fire Protection Association (USA) | |
| HMIS: Hazardous Materials Identification System (USA) | |
| VOC: Volatile Organic Compounds (USA, EU) | |
| PBT: Persistent, Bioaccumulative and Toxic | |
| vPvB: very Persistent and very Bioaccumulative | |
| NIOSH: National Institute for Occupational Safety | |
| OSHA: Occupational Safety & Health | |
| TLV: Threshold Limit Value | |
| PEL: Permissible Exposure Limit | |
| REL: Recommended Exposure Limit | |
| Skin Irrit. 2: Skin corrosion/irritation – Category 2 | |
| Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A | |
| STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 | |
| | US |

