

Printing date 07/16/2021 Reviewed on 07/16/2021

### 1 Identification

· Product name

· Trade name: Iron lump (99.98%)

· Item number: 26-0070

• CAS Number: 7439-89-6 • EC number: 231-096-4

· 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



GHS02 Flame

Flam. Sol. 2 H228 Flammable solid.

- · Label elements
- · GHS label elements

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

· Hazard pictograms



GHS02

- · Signal word Warning
- · Hazard statements

H228 Flammable solid.

· Precautionary statements

P262 Do not get in eyes, on skin, or on clothing.

*P280* Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 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.

(Contd. on page 2)

(Contd. of page 1)



### Safety Data Sheet according to OSHA HCS

Printing date 07/16/2021 Reviewed on 07/16/2021

Trade name: Iron lump (99.98%)

· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 0Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



 $0 \quad Health = 0$ Fire = 0

- · 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 7439-89-6 iron
- · Identification number(s)
- · EC number: 231-096-4

#### 4 First-aid measures

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water. Then 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 Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions: No special measures required.

(Contd. on page 3)



Printing date 07/16/2021 Reviewed on 07/16/2021

Trade name: Iron lump (99.98%)

(Contd. of page 2)

· Methods and material for containment and cleaning up:

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.

· PAC-1:	
	3.2 mg/m.
· PAC-2:	
	35 mg/m
· PAC-3:	
	150 mg/m.

### 7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: Keep ignition sources away Do not smoke.
- · 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: Wash hands before breaks and at the end of work.
- · Breathing equipment: Not required.
- · 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.

(Contd. on page 4)



Printing date 07/16/2021 Reviewed on 07/16/2021

Trade name: Iron lump (99.98%)

(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: Safety glasses

Information on basic physical and chemical properties General Information Appearance: Form: Color: Grey Odor: Odor Odorless Odor threshold: Not applicable.  Change in condition Melting point/Melting range: Boiling point/Melting range: Not applicable.  Flash point: Not applicable.  Flammability (solid, gaseous): Flammable.  Flammability (solid, gaseous): Flammable.  Ignition temperature: Decomposition temperature: Not determined.  Auto igniting: Not determined.  - Danger of explosion: Not determined.  Explosion limits: Lower: Upper: Not determined.  Vapor pressure: I hPa (I mm Hg) Density at 20 °C (68 °F): Palik density at 20 °C (68 °F): Sulk density at 20 °C (68 °F): Aledaive density Not applicable.  Evaporation rate Not applicable.  Fevaporation rate Not applicable.  Found ity in / Miscibility with Water: Insoluble.  Partition coefficient (n-octanol/water): Not determined.  Viccosity: Dynamic: Kinematic: Not applicable.  Solivent content: Organic solvents: Oo 0 % VOC content: Oo 9/4 / 0.00 lb/gl Solids content: Organic solvents: Oo 0 9/4 / 0.00 lb/gl Solids content: Office of the solvents and	9 Physical and chemical prope	rties
Form: Color: Grey Odor: Odor: Odor threshold: Not applicable.  Change in condition Melting point/Melting range: Boiling point/Boiling range: Solub iling themperature: Not applicable.  Flammability (solid, gaseous): Flammable.  Ignition temperature: Not determined.  Auto igniting: Not determined.  Danger of explosion: Not determined.  Lyper: Not determined.  Vapor pressure: Not determined.  Density at 20 °C (68 °F): Relative density Not applicable.  Partition coefficient (n-octanol/water): Not applicable.  Partition coefficient (since) Not applicable.  Not applicable.  Not applicable.  Not applicable.  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Kinematic: Not applicable.	· General Information	chemical properties
Color: Odor: Odorsold: Odorless Odor threshold: Not determined.  **PH-value: Not applicable.  **Change in condition Melting point/Melting range: 3.000 °C (37 °F)  **Boiling point/Boiling range: 3.000 °C (37 °F)  **Flash point: Not applicable.  **Flammability (solid, gaseous): Flammable.  **Flammability (solid, gaseous): Flammable.  **Ignition temperature: Not determined.  **Auto igniting: Not determined.  **Danger of explosion: Not determined.  **Danger of explosion: Not determined.  **Upper: Not determined.  **Vapor pressure: I hPa (1 mm Hg)  **Density at 20 °C (68 °F): 7.86 g/cm³ (65.5917 lbs/gal)  **Bulk density at 20 °C (68 °F): 2.900 kg/m³  **Relative density Not applicable.  **Vapor density Not applicable.  **Solubility in / Miscibility with Water: Insoluble.  **Solubility in / Miscibility with Water: Not determined.  **Viscosity: Dynamic: Not applicable.  **Viscosity: Dynamic: Not applicable.  **Viscosity: Dynamic: Not applicable.  **Viscosity: Opnamic: Opnamic: Not applicable.  **Viscosity: Opnamic: Not applicable.  **Viscosity: Opnamic: Not applicable.  **Viscosity: Opnam		Chunks
Odor threshold: Odor threshold: Not applicable.  Change in condition Melting point/Melting range: Boiling point/Boiling range: 3.000 °C (37 °F)  Flash point: Not applicable.  Flammability (solid, gaseous): Flammable.  Ignition temperature:  Decomposition temperature: Not determined.  Auto igniting: Not determined.  Lower: Lower: Lower: Not determined.  Vapor pressure:  In Pa (1 mm Hg)  Density at 20 °C (68 °F): 2.900 kg/m³  Bulk density at 20 °C (68 °F): 2.900 kg/m³  Relation trate  Not applicable.  Fartition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Kinematic: Not applicable.  Solvent content: Organic solvents: Organic solvents: On g/1/0.00 lb/gl  Not determined.		• • • • • • • • • • • • • • • • • • • •
Odor threshold: Not applicable.  PH-value: Not applicable.  Change in condition Melting point/Melting range: 3.000 °C (37 °F)  Flash point: Not applicable.  Flash point: Not applicable.  Flammability (solid, gaseous): Flammable.  Ignition temperature: Not determined.  Auto igniting: Not determined.  Danger of explosion: Not determined.  Explosion limits: Not determined.  Upper: Not determined.  Vapor pressure: I hPa (I mm Hg)  Density at 20 °C (68 °F): 7.86 g/cm³ (65.5917 lbs/gal)  Bulk density at 20 °C (68 °F): Not applicable.  Feature density Not applicable.  Solubility in / Miscibility with Water: Not applicable.  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Not applicable.  Kinematic: Not applicable.  Solvent content: Organic solvents: O.0 %  VOC content: O.0 g// /0.00 lb/gl		•
Change in condition Melting point/Melting range: Boiling point/Boiling range: 3.000 °C (37 °F)  Flash point: Not applicable.  Flammability (solid, gaseous): Flammable.  Ignition temperature:  Decomposition temperature: Not determined.  Auto igniting: Not determined.  Danger of explosion: Not determined.  Explosion limits: Lower: Upper: Not determined.  Vapor pressure: I hPa (1 mm Hg)  Density at 20 °C (68 °F): Relative density Not applicable.  Evaporation rate Not applicable.  Solubility in / Miscibility with Water: Insoluble.  Partition coefficient (n-octanol/water): Not applicable. Kinematic: Not applicable.  Solvent content: Organic solvents: Organic solvents: Organic solvents: Organic solvents: OO % /O 00 // 0.00 lb/gl		Not determined.
Melting point/Melting range: 3.000 °C (37 °F)  Flash point: Not applicable.  Flammability (solid, gaseous): Flammable.  Ignition temperature: Not determined.  - Auto igniting: Not determined.  - Danger of explosion: Not determined.  - Explosion limits:  Lower: Not determined.  - Upper: Not determined.  - Vapor pressure: 1 hPa (1 mm Hg)  - Density at 20 °C (68 °F): 7.86 g/cm³ (65.5917 lbs/gal)  - Bulk density 20 °C (68 °F): 2.900 kg/m³  - Relative density Not applicable.  - Evaporation rate Not applicable.  - Solubility in / Miscibility with Water: Insoluble.  - Partition coefficient (n-octanol/water): Not determined.  - Viscosity: Not applicable.  - Solvent content: Not applicable.  - Solvent content: Not applicable.  - Solvent content: Ogganic solvents: 0.0 % VOC content: 0.0 g/l / 0.00 lb/gl	· pH-value:	Not applicable.
Melting point/Melting range: 3.000 °C (37 °F)  Flash point: Not applicable.  Flammability (solid, gaseous): Flammable.  Ignition temperature: Not determined.  - Auto igniting: Not determined.  - Danger of explosion: Not determined.  - Explosion limits:  Lower: Not determined.  - Upper: Not determined.  - Vapor pressure: 1 hPa (1 mm Hg)  - Density at 20 °C (68 °F): 7.86 g/cm³ (65.5917 lbs/gal)  - Bulk density 20 °C (68 °F): 2.900 kg/m³  - Relative density Not applicable.  - Evaporation rate Not applicable.  - Solubility in / Miscibility with Water: Insoluble.  - Partition coefficient (n-octanol/water): Not determined.  - Viscosity: Not applicable.  - Solvent content: Not applicable.  - Solvent content: Not applicable.  - Solvent content: Ogganic solvents: 0.0 % VOC content: 0.0 g/l / 0.00 lb/gl	· Change in condition	
Boiling point/Boiling range: 3.000 °C (37 °F)  Flash point: Not applicable.  Flammability (solid, gaseous): Flammable.  Ignition temperature: Not determined.  - Auto igniting: Not determined.  - Danger of explosion: Not determined.  Explosion limits:		1.535 °C (35 °F)
Flammability (solid, gaseous): Flammable.  Ignition temperature:  Decomposition temperature: Not determined.  Auto igniting: Not determined.  Danger of explosion: Not determined.  Explosion limits: Lower: Not determined.  Upper: Not determined.  Vapor pressure: 1 hPa (1 mm Hg)  Density at 20 °C (68 °F): 7.86 g/cm³ (65.5917 lbs/gal)  Bulk density at 20 °C (68 °F): 2.900 kg/m³  Relative density Not determined.  Vapor density Not applicable.  Evaporation rate Not applicable.  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Not applicable. Kinematic: Not applicable.  Solvent content: Organic solvents: 0.0 % VOC content: 0.0 g/l / 0.00 lb/gl	Boiling point/Boiling range:	3.000 °C (37 °F)
Ignition temperature:  Decomposition temperature: Not determined.  Auto igniting: Not determined.  Danger of explosion: Not determined.  Explosion limits: Lower: Not determined.  Vapor: Not determined.  Vapor pressure:  I hPa (1 mm Hg)  Density at 20 °C (68 °F): Relative density Vapor density Not applicable.  Evaporation rate Not applicable.  Solubility in / Miscibility with Water: Insoluble.  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Kinematic: Not applicable.  Solvent content: Organic solvents: Organic solven	· Flash point:	Not applicable.
Decomposition temperature: Not determined.  Auto igniting: Not determined.  Danger of explosion: Not determined.  Explosion limits: Lower: Upper: Not determined.  Vapor pressure:  I hPa (1 mm Hg)  Density at 20 °C (68 °F): 7.86 g/cm³ (65.5917 lbs/gal)  Bulk density at 20 °C (68 °F): Relative density Not determined.  Vapor density Not applicable. Evaporation rate Not applicable.  Solubility in / Miscibility with Water: Insoluble.  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Kinematic: Not applicable.  Solvent content: Organic solvents: Organic solvents: On g/1/0.00 lb/gl	· Flammability (solid, gaseous):	Flammable.
- Auto igniting: Not determined.  - Danger of explosion: Not determined.  - Explosion limits: - Lower: Not determined Upper: Not determined Vapor pressure: 1 hPa (1 mm Hg) - Density at 20 °C (68 °F): 7.86 g/cm³ (65.5917 lbs/gal)  - Bulk density at 20 °C (68 °F): 2.900 kg/m³ - Relative density Not determined Vapor density Not applicable Evaporation rate Not applicable Solubility in / Miscibility with Water: Insoluble Partition coefficient (n-octanol/water): Not determined Viscosity: - Dynamic: Not applicable Kinematic: Not applicable Solvent content: - Organic solvents: 0.0 % - VOC content: 0.0 g/1 / 0.00 lb/gl	· Ignition temperature:	
Danger of explosion:  Not determined.  Lower: Not determined. Upper: Not determined.  Vapor pressure: 1 hPa (1 mm Hg)  Density at 20 °C (68 °F): 7.86 g/cm³ (65.5917 lbs/gal)  Bulk density at 20 °C (68 °F): Not determined.  Vapor density Not applicable. Evaporation rate Not applicable.  Solubility in / Miscibility with Water: Insoluble.  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Kinematic: Not applicable. Not applicable.  Solvent content: Organic solvents: Organic solvents: On gall / 0.00 lb/gl	Decomposition temperature:	Not determined.
Explosion limits: Lower: Upper: Not determined. Vapor pressure: 1 hPa (1 mm Hg)  Density at 20 °C (68 °F): 7.86 g/cm³ (65.5917 lbs/gal)  Bulk density at 20 °C (68 °F): 2.900 kg/m³ Relative density Not determined. Vapor density Not applicable. Evaporation rate Not applicable.  Solubility in / Miscibility with Water: Insoluble.  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Kinematic: Not applicable.  Solvent content: Organic solvents: On g/1 / 0.00 lb/gl	· Auto igniting:	Not determined.
Lower: Not determined. Upper: Not determined.  Vapor pressure: 1 hPa (1 mm Hg)  Density at 20 °C (68 °F): 7.86 g/cm³ (65.5917 lbs/gal)  Bulk density at 20 °C (68 °F): 2.900 kg/m³  Relative density Not determined.  Vapor density Not applicable.  Evaporation rate Not applicable.  Solubility in / Miscibility with Water: Insoluble.  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Not applicable.  Kinematic: Not applicable.  Solvent content: Organic solvents: 0.0 % VOC content: 0.0 g/l / 0.00 lb/gl	· Danger of explosion:	Not determined.
Upper: Not determined.  Vapor pressure: 1 hPa (1 mm Hg)  Density at 20 °C (68 °F): 7.86 g/cm³ (65.5917 lbs/gal)  Bulk density at 20 °C (68 °F): 2.900 kg/m³  Relative density Not determined.  Vapor density Not applicable.  Evaporation rate Not applicable.  Solubility in / Miscibility with Water: Insoluble.  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Not applicable. Kinematic: Not applicable.  Solvent content: 0.0 % VOC content: 0.0 g/l / 0.00 lb/gl	· Explosion limits:	
Vapor pressure:  1 hPa (1 mm Hg)  Density at 20 °C (68 °F):  7.86 g/cm³ (65.5917 lbs/gal)  Bulk density at 20 °C (68 °F):  2.900 kg/m³  Not determined.  Vapor density  Not applicable.  Evaporation rate  Not applicable.  Solubility in / Miscibility with Water:  Insoluble.  Partition coefficient (n-octanol/water): Not determined.  Viscosity:  Dynamic: Kinematic:  Not applicable.  Kinematic:  Not applicable.  Solvent content: Organic solvents: O.0 % VOC content:  0.0 g/l / 0.00 lb/gl	Lower:	Not determined.
Density at 20 °C (68 °F):  7.86 g/cm³ (65.5917 lbs/gal)  Bulk density at 20 °C (68 °F):  2.900 kg/m³  Not determined.  Vapor density  Not applicable.  Evaporation rate  Not applicable.  Solubility in / Miscibility with Water:  Insoluble.  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Kinematic:  Not applicable.  Solvent content: Organic solvents: 0.0 % VOC content: 0.0 g/l / 0.00 lb/gl	Upper:	Not determined.
Bulk density at 20 °C (68 °F): 2.900 kg/m³ Relative density Not determined. Vapor density Not applicable. Evaporation rate Not applicable.  Solubility in / Miscibility with Union coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Not applicable. Kinematic: Not applicable.  Solvent content: Organic solvents: 0.0 % VOC content: 0.0 g/l / 0.00 lb/gl	· Vapor pressure:	1 hPa (1 mm Hg)
Relative density Vapor density Not applicable. Evaporation rate Not applicable.  Solubility in / Miscibility with Water: Insoluble.  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Not applicable. Kinematic: Not applicable.  Solvent content: Organic solvents: One of the content: Organic solvents: One of the content: One of the content	· Density at 20 °C (68 °F):	$7.86 \text{ g/cm}^3 (65.5917 \text{ lbs/gal})$
<ul> <li>Vapor density</li></ul>	• Bulk density at 20 °C (68 °F):	$2.900  kg/m^3$
<ul> <li>Evaporation rate Not applicable.</li> <li>Solubility in / Miscibility with Water: Insoluble.</li> <li>Partition coefficient (n-octanol/water): Not determined.</li> <li>Viscosity: Dynamic: Not applicable. Kinematic: Not applicable.</li> <li>Solvent content: Organic solvents: Organic solvents: 0.0 % VOC content: 0.0 g/l / 0.00 lb/gl</li> </ul>		
· Solubility in / Miscibility with Water: Insoluble.  · Partition coefficient (n-octanol/water): Not determined.  · Viscosity: Dynamic: Not applicable. Kinematic: Not applicable.  · Solvent content: Organic solvents: 0.0 % VOC content: 0.0 g/l / 0.00 lb/gl		
Water: Insoluble.  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Not applicable. Kinematic: Not applicable.  Solvent content: Organic solvents: 0.0 % VOC content: 0.0 g/l / 0.00 lb/gl	· Evaporation rate	Not applicable.
Water: Insoluble.  Partition coefficient (n-octanol/water): Not determined.  Viscosity: Dynamic: Not applicable. Kinematic: Not applicable.  Solvent content: Organic solvents: 0.0 % VOC content: 0.0 g/l / 0.00 lb/gl	· Solubility in / Miscibility with	
<ul> <li>Viscosity:         <ul> <li>Dynamic: Not applicable.</li> <li>Kinematic: Not applicable.</li> </ul> </li> <li>Solvent content:         <ul> <li>Organic solvents: 0.0 %</li> <li>VOC content: 0.0 g/l / 0.00 lb/gl</li> </ul> </li> </ul>		Insoluble.
Dynamic: Not applicable. Kinematic: Not applicable.  Solvent content: Organic solvents: 0.0 % VOC content: 0.0 g/l / 0.00 lb/gl	· Partition coefficient (n-octanol/wat	ter): Not determined.
Dynamic: Not applicable. Kinematic: Not applicable.  Solvent content: Organic solvents: 0.0 % VOC content: 0.0 g/l / 0.00 lb/gl	· Viscosity:	
Kinematic:         Not applicable.           • Solvent content:         0.0 %           Organic solvents:         0.0 %           VOC content:         0.0 g/l / 0.00 lb/gl		Not applicable.
Organic solvents:         0.0 %           VOC content:         0.0 g/l / 0.00 lb/gl		
Organic solvents:         0.0 %           VOC content:         0.0 g/l / 0.00 lb/gl	· Solvent content:	
<b>VOC content:</b> 0.0 g/l / 0.00 lb/gl		0.0 %
Solids content: 100.0%		
	Solids content:	100.0 %

(Contd. on page 5)



Printing date 07/16/2021 Reviewed on 07/16/2021

Trade name: Iron lump (99.98%)

(Contd. of page 4)

· 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: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · 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.
- · Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

HC.



Printing date 07/16/2021 Reviewed on 07/16/2021

Trade name: Iron lump (99.98%)

(Contd. of page 5)

### 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.

14	<i>4 1</i>	ran	sport	tinj	ormai	tion

	$II\lambda$	/_ \\	un	ıber	
•	UIV	-/ V	un	wer	

· DOT, ADN, IMDG, IATA

not regulated

· UN proper shipping name

· DOT, ADN, IMDG, IATA

not regulated

- · Transport hazard class(es)
- · DOT, ADN, IMDG, IATA
- · Class

· Packing group

· DOT, IMDG, IATA

not regulated

not regulated

- · Environmental hazards:
- · Marine pollutant:

No

· Special precautions for user

Not applicable.

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code

Not applicable.

· UN ''Model Regulation'':

not regulated

### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- . 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 listed.

- · Proposition 65
- · Chemicals known to cause cancer:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for females:

Substance is not listed.

· Chemicals known to cause reproductive toxicity for males:

Substance is not listed.

(Contd. on page 7)



Printing date 07/16/2021 Reviewed on 07/16/2021

Trade name: Iron lump (99.98%)

(Contd. of page 6)

· 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 statements

H228 Flammable solid.

· Precautionary statements

P262 Do not get in eyes, on skin, or on clothing.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 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.

· 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.
- · Contact: Technical Director
- · Date of preparation / last revision 07/16/2021 / -
- · 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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

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

(Contd. on page 8)



Printing date 07/16/2021 Reviewed on 07/16/2021

Trade name: Iron lump (99.98%)

NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health

TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

Flam. Sol. 2: Flammable solids – Category 2

(Contd. of page 7)