

Printing date 07/20/2021 Reviewed on 07/20/2021

1 Identification

· Product name

· Trade name: Iron foil (99.5+%)

· Item number: 93-2661

· 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.

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

P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. P304+P340

Store in a well-ventilated place. Keep container tightly closed. P403+P233

Dispose of contents/container in accordance with local/regional/national/international P501

regulations.

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Safety Data Sheet according to OSHA HCS

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· Classification system:

· NFPA ratings (scale 0 - 4)



Health = 0Fire = 0Reactivity = 0

· HMIS-ratings (scale 0 - 4)



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.

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· 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.

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· 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: Odorbreshold: Not applicable. Change in condition Melting point/Belling range: Boiling point/Belling range: Boiling point/Boiling range: Flash point: Not applicable. Flammability (solid, gaseous): Flammable. Ignition temperature: Not determined. Auto igniting: Not determined. Auto igniting: Not determined. Explosion limits: Lower: Not determined. Vapor pressure: I hPa (I mm Hg) Density at 20 °C (68 °F): 2.900 kg/m³ Relative density Not applicable. Solubility in Miscibility with Water: Insoluble. Partition coefficient (n-octanol/water): Not determined. Viscosity: Dynamic: Not applicable. Kinematic: Not applicable. Kinematic: Not applicable. Solvent content: One officient (n-octanol/water): Not determined. Viscosity: Dynamic: Not applicable. Solvent content: One officient (n-octanol/water): Not determined. Viscosity: Dynamic: Not applicable. Solvent content: One officient (n-octanol/water): Not determined. Viscosity: Dynamic: Not applicable. Solvent content: One officient (n-octanol/water): Not determined. Viscosity: Dynamic: Not applicable. Solventent: One officient (n-octanol/water): Not determined. Viscosity: Dynamic: Not applicable. Solventent: One officient (n-octanol/water): Not determined. Viscosity: Dynamic: Not applicable. Solventent: One officient (n-octanol/water): Not determined. Viscosity: Dynamic: Not applicable. Solventent: One officient (n-octanol/water): Not determined. Viscosity: Dynamic: Not applicable. Solventent: One officient (n-octanol/water): Not determined. Viscosity: Dynamic: Not applicable. Solventent: One officient (n-octanol/water): Not determined.	9 Physical and chemical proper	rties
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VOC content: 0.0 g/l / 0.00 lb/gl		0.0 %
	Solids content:	100.0 %



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· 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.
- $\cdot \textit{Additional toxicological information:}$
- · 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.

US ·



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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 Transpor	t inj	forma	non
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· 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

not regulated

· Packing group

· DOT, IMDG, IATA

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

d 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.

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· 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



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.

· 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 07/20/2021 / -
- · 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

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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

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