Safety data sheet

nting date 19.07.2021	Revision: 19.07.20
SECTION 1: Identification of the	substance/mixture and of the company/undertaking
1.1 Product identifier	
Trade name: <u>Iridium sponge (99.95%)</u>	
Item number: 77-2580 CAS Number: 7439-88-5 EC number: 231-095-9 1.2 Relevant identified uses of the substa No further relevant information available	nce or mixture and uses advised against
1.3 Details of the supplier of the safety of Manufacturer/Supplier: Strem Chemicals, Inc. 7 Mulliken Way NEWBURYPORT, MA 01950 USA info@strem.com	ta sheet
Further information obtainable from: T 1.4 Emergency telephone number: EMERGENCY: CHEMTREC: +1 (800) During normal opening times: +1 (978) -	124-9300

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



Flam. Sol. 2 H228 Flammable solid.

· 2.2 Label elements

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



· Signal word Warning

· Hazard statements

H228 Flammable solid.

· 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.
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P240 *Ground/bond container and receiving equipment.*
- P241 Use explosion-proof electrical/ventilating/lighting equipment.

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

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- *P501 Dispose of contents/container in accordance with local/regional/national/international regulations.*
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.1 Chemical characterisation: Substances
- · CAS No. Description
- 7439-88-5 iridium
- · Identification number(s)
- EC number: 231-095-9

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- 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 No further relevant information available.
- · 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures 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: 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 No special precautions are necessary if used correctly.

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- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- 7.2 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 container tightly sealed.
- · 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. Wash hands before breaks and at the end of work.
- · Respiratory protection: 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.

· 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

 9.1 Information on basic physical at General Information 	na chemicai properiies	
· Appearance:		
Form:	Powder	
Colour:	Grey	
· Odour:	Odourless	
• Odour threshold:	Not determined.	
· pH-value:	Not applicable.	
· Change in condition		
Melting point/freezing point:	2.410 °C	
Initial boiling point and boiling ra	unge: 4.130 °C	
		(Contd. on page

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Flash point:	Not applicable.	
Flammability (solid, gas):	Flammable.	
Ignition temperature:		
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Not determined.	
Explosive properties:	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure:	Not applicable.	
Density at 20 °C:	22.421 g/cm ³	
Relative density	Not determined.	
Vapour 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(EC)	0.00 %	
Solids content:	100.0 %	
Sound content.	100.0 /0	

• 9.2 Other information

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.

No further relevant information available.

- · 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 Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

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- · 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.
- $\cdot \textit{Reproductive toxicity Based on available data, the classification criteria are not met.}$
- 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: Not known to be hazardous to water.
- · 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.

· Uncleaned packaging:

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

- 14.1 UN-Number - ADR, IMDG, IATA	UN3089
14.2 UN proper shipping name	
ADR	3089 METAL POWDER, FLAMMABLE, N.O.S.
IMDG, IATA	METAL POWDER, FLAMMABLE, N.O.S.
· Class	4.1 Flammable solids, self-reactive substances and soli desensitised explosives.
· Label	4.1

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· 14.4 Packing group · ADR, IMDG, IATA	III
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Warning: Flammable solids, self-reactive substances and solid desensitised explosives.
Segregation groups	Heavy metals and their salts (including their organometalli compounds), powdered metals
Stowage Category	A
Handling Code	H1 Keep as dry as reasonably practicable
Segregation Code	SG17 Stow "separated from" class 5.1
	SG25 Stow "separated from" goods of classes 2.1 and 3.
	SG26 In addition: from goods of classes 2.1 and 3 whe
	stowed on deck of a containership a minimum distance of tw
	container spaces athwartship shall be maintained, whe stowed on ro-ro ships a distance of 6 m athwartship shall b
	maintained.
14.7 Transport in bulk according to Anne	ar II of
Marpol and the IBC Code	Not applicable.
Marpol and the IBC Code Transport/Additional information:	Not applicable.
•	Not applicable.
Transport/Additional information: ADR Limited quantities (LQ)	5 kg
• Transport/Additional information: • ADR	5 kg Code: E1
Transport/Additional information: ADR Limited quantities (LQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g
Transport/Additional information: ADR Limited quantities (LQ)	5 kg Code: E1
• Transport/Additional information: • ADR • Limited quantities (LQ) • Excepted quantities (EQ) • IMDG	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) IMDG Limited quantities (LQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g 5 kg
• Transport/Additional information: • ADR • Limited quantities (LQ) • Excepted quantities (EQ) • IMDG	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g 5 kg Code: E1
Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) IMDG Limited quantities (LQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g 5 kg Code: E1 Maximum net quantity per inner packaging: 30 g
Transport/Additional information: ADR Limited quantities (LQ) Excepted quantities (EQ) IMDG Limited quantities (LQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g 5 kg Code: E1

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.

· 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

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· Abbreviations	and acronyms:
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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 EURICS: European Imputting of Emission Chemical Systems of Classification and Labelling of Systems

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

Flam. Sol. 2: Flammable solids – Category 2