accoraing to 1907/20	100/EC, Article 51
Printing date 21.07.2021	Revision: 21.07.2021
SECTION 1: Identification of the substance/m	nixture and of the company/undertaking
· 1.1 Product identifier	
· Trade name: <u>Tantalum powder (99.98%, Nb-25ppm)</u>	
<ul> <li>Item number: 93-7330</li> <li>CAS Number: 7440-25-7</li> <li>EC number: 231-135-5</li> <li>1.2 Relevant identified uses of the substance or mixture No further relevant information available.</li> </ul>	and uses advised against
<ul> <li>1.3 Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: Strem Chemicals, Inc.</li> <li>7 Mulliken Way</li> </ul>	

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

 Further information obtainable from: Technical Department
 1.4 Emergency telephone number: EMERGENCY: CHEMTREC: +1 (800) 424-9300 During normal opening times: +1 (978) 499-1600

# **SECTION 2: Hazards identification**

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



Flam. Sol. 1 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 Danger

· 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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## Trade name: Tantalum powder (99.98%, Nb-25ppm)

- *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
- 7440-25-7 tantalum
- · Identification number(s)
- EC number: 231-135-5

## **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:

#### 7440-25-7 tantalum

WEL Short-term value: 10 mg/m<sup>3</sup>

Long-term value: 5 mg/m<sup>3</sup>

• Additional information: The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures: 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

<ul> <li>9.1 Information on basic physical and chemical properties</li> <li>General Information</li> </ul>		
· Appearance:		
Form:	Powder	
Colour:	Black	
· Odour:	Odourless	
· Odour threshold:	Not determined.	
· pH-value:	Not applicable.	
• Change in condition Melting point/freezing point:	2.996 °C	
		(Contd. on page 4)

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	(Contd. of pag
Initial boiling point and boiling range	2: 5.425 °C
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:	16.6 g/cm <sup>3</sup>
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 %
9.2 Other information	No further relevant information available.

# **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 Based on available data, the classification criteria are not met.

· Serious eye damage/irritation Based on available data, the classification criteria are not met.

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Trade name: Tantalum powder (99.98%, Nb-25ppm)

- · 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.
- $\cdot$  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: 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.
ADR	
Class	4

Printing date 21.07.2021

CHEMICALS, INC.

Revision: 21.07.2021

Trade name:	Tantalum	powder	( <b>99.9</b> 8%,	Nb-25ppm)	

Class       4.1 Flammable solids, self-reactive substances and solid desensitised explosives.         Label       4.1         14.4 Packing group       1         ADR, IMDG, IATA       II         14.5 Environmental hazards:       Marine pollutant:         Marine pollutant:       No         14.6 Special precautions for user       F-G,S-G         EMS Number:       F-G,S-G         Segregation groups       Heavy metals and their salts (including their organometall compounds), powdered metals         Stowage Category       B         Handling Code       FI Keep as dry as reasonably practicable         Segregation Code       SG25 Stow "separated from" class 5.1         Seg25 Stow "separated from" goods of classes 2.1 and 3.         SG26 In addition: from goods of classes 2.1 and 3.         SG26 In addition: from goods of classes 2.1 and 3.         SG26 In addition: from goods of classes 2.1 and 3.         SG26 In addition: from goods of classes 2.1 and 3.         SG26 In addition: from goods of classes 2.1 and 3.         SG26 In addition: from goods of classes 2.1 and 3.         SG26 In addition: from goods of classes 2.1 and 3.         SG26 In addition: from goods of classes 2.1 and 3.         SG26 In addition: from goods of classes 2.1 and 3.         SG26 In additionent from spa distance of w		(Contd. of page
Class       4.1 Flammable solids, self-reactive substances and solid desensitised explosives.         Label       4.1         14.4 Packing group       1         ADR, IMDG, IATA       II         14.5 Environmental hazards:       Marine pollutant:         Marine pollutant:       No         14.6 Special precautions for user       F-G,S-G         EMS Number:       F-G,S-G         Segregation groups       Heavy metals and their salts (including their organometall compounds), powdered metals         Stowage Category       B         Handling Code       HI Keep as dry as reasonably practicable         Segregation Code       SG25 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.         SG26 In addition: from goods of classes 2.1 and 3.         SG26 In addition: from goods of classes 2.1 and 3.         SG26 In addition: from goods of classes 2.1 and 3.         SG26 In addition: from goods of classes 2.1 and 3.         SG26 In addition: from goods of classes 2.1 and 3.         SG26 In addition: from goods of classes 2.1 and 3.         SG26 In addition: from goods of classes 2.1 and 3.         SG26 In addition: from goods of classes 2.1 and 3.         SG26 In additionenter packaging: 30 g	Label	4.1
Label       4.1         14.4 Packing group       A.1         ADR, IMDG, IATA       II         14.5 Environmental hazards:       Marine pollutant:         Marine pollutant:       No         14.6 Special precautions for user       F.G.S-G         EMS Number:       F-G.S-G         Segregation groups       Heavy metals and their salts (including their organometall compounds), powdered metals         Stowage Category       B         Handling Code       HI Keep as dry as reasonably practicable         Segregation Code       SG25 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.         SG26 In addition: from goods of classes 2.1 and 3.         SG25 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.         SG26 In addition: from goods of classes 2.1 and 3.         Marpol and the IBC Code       Not applicable.         Transport/Additional information:         ADR         Limited quantities (LQ)       1 kg         Excepted quantities (LQ)       1 kg         Excepted quantities (LQ)       1 kg         Excepted quantities (EQ)       C	IMDG, IATA	
Label       4.1         14.4 Packing group       A.1         ADR, IMDG, IATA       II         14.5 Environmental hazards:       Marine pollutant:         Marine pollutant:       No         14.6 Special precautions for user       F.G.S-G         EMS Number:       F-G.S-G         Segregation groups       Heavy metals and their salts (including their organometall compounds), powdered metals         Stowage Category       B         Handling Code       HI Keep as dry as reasonably practicable         Segregation Code       SG25 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.         SG26 In addition: from goods of classes 2.1 and 3.         SG25 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.         SG26 In addition: from goods of classes 2.1 and 3.         Marpol and the IBC Code       Not applicable.         Transport/Additional information:         ADR         Limited quantities (LQ)       1 kg         Excepted quantities (LQ)       1 kg         Excepted quantities (LQ)       1 kg         Excepted quantities (EQ)       C		
14.4 Packing group       II         14.5 Environmental hazards:       No         Marine pollutant:       No         14.6 Special precautions for user       Not applicable.         EMS Number:       F-G,S-G         Segregation groups       Heavy metals and their salts (including their organometall compounds), powdered metals         Stowage Category       B         Handling Code       SG17 Stow "separated from" class 5.1         Segregation Code       SG25 Stow "separated from" goods of classes 2.1 and 3.         SG26 In addition: from goods of classes 2.1 and 3.       SG26 In addition: from goods of classes 2.1 and 3.         SG26 In addition: from goods of classes 2.1 and 3.       SG26 In addition: from goods of classes 2.1 and 3.         Marpol and the IBC Code       Not applicable.         Transport in bulk according to Annex II of       Marpol and the IBC Code         Marpol and the IBC Code       Not applicable.         Transport/Additional information:       Maximum net quantity per inner packaging: 30 g         Maximum net quantities (LQ)       1 kg         Excepted quantities (LQ)       1 kg         Limited quantities (LQ)       1 kg         Limited quantities (EQ)       1 kg         Code: E2       Maximum net quantity per inner packaging: 500 g         MDG       Maximum net qu	Class	
ADR, IMDG, TATA       II         14.5 Environmental hazards:       No         Marine pollutant:       No         14.6 Special precautions for user       Not applicable.         EMS Number:       F-G,S-G         Segregation groups       Heavy metals and their salts (including their organometall compounds), powdered metals         Stowage Category       B         Handling Code       SGI7 Stow "separated from" class 5.1         Segregation Code       SGI7 Stow "separated from" class 5.1         Segregation Code       SGI7 Stow "separated from" goods of classes 2.1 and 3.         SQ25 Stow "separated from" goods of classes 2.1 and 3.         SG26 In addition: from goods of classes 2.1 and 3.         SG26 In addition: for mgoods of classes 2.1 and 3.         SG26 In addition: for mgoods of classes 2.1 and 3.         SG26 In addition: for mgoods of classes 2.1 and 3.         SG26 In addition: for mgoods of classes 2.1 and 3.         SG26 In addition: for mgoods of classes 2.1 and 3.         SG26 In addition: for goods of classes 2.1 and 3.         SG26 In addition: for goods of classes 2.1 and 3.         SG26 In addition: for goods of classes 2.1 and 3.         SG27 Stow "separated from" goods of classes 2.1 and 3.         SG26 In addition: Transport in bulk according to Annex II of         Marpol and the IBC Code       Not appl	Label	4.1
Marine pollutant:       No         14.6 Special precautions for user       Not applicable.         EMS Number:       F-G,S-G         Segregation groups       Heavy metals and their salts (including their organometall compounds), powdered metals         Stowage Category       B         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         14.7 Transport in bulk according to Annex II of Marpol and the IBC Code       Not applicable.         Transport/Additional information:       ADR         Limited quantities (LQ)       1 kg         Excepted quantities (LQ)       1 kg         Limited quantities (EQ)       Code: E2         Maximum net quantity per inner packaging: 30 g       Maximum net quantity per inner packaging: 30 g         Maximum net quantity per outer packaging: 30 g       Maximum net quant	14.4 Packing group ADR, IMDG, IATA	II
14.6 Special precautions for user       Not applicable.         EMS Number:       F-G,S-G         Segregation groups       Heavy metals and their salts (including their organometall compounds), powdered metals         Stowage Category       B         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.         SG25 In addition: from goods of classes 2.1 and 3 whe stowed on deck of a containership a minimum distance of two container spaces athwartship shall be maintained, whe stowed on ro-ro ships a distance of 6 m athwartship shall be maintained.         14.7 Transport in bulk according to Annex II of Marpol and the IBC Code       Not applicable.         Transport/Additional information:       Not applicable.         ADR       Code: E2         Limited quantities (LQ)       1 kg         Excepted quantities (LQ)       1 kg         Limited quantities (LQ)       1 kg	14.5 Environmental hazards:	
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EMS Number:       F-G,S-G         Segregation groups       Heavy metals and their salts (including their organometall compounds), powdered metals         Stowage Category       B         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 two container spaces athwartship shall be maintained, whe stowed on ro-ro ships a distance of 6 m athwartship shall be maintained.         14.7 Transport in bulk according to Annex II of Marpol and the IBC Code       Not applicable.         Transport/Additional information:       ADR         Limited quantities (LQ)       1 kg         Excepted quantities (EQ)       Code: E2         Maximum net quantity per inner packaging: 30 g         Maximum net quantity per outer packagi	14.6 Special precautions for user	Not applicable.
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Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 500 g	Limited quantities (LQ)	1 kg
Maximum net quantity per outer packaging: 500 g	Excepted quantities $(\widetilde{E}Q)$	
	UN "Model Regulation":	UN 3089 METAL POWDER, FLAMMABLE, N.O.S., 4.1, II

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.

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Revision: 21.07.2021

Trade name: Tantalum powder (99.98%, Nb-25ppm)

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

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#### **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 Flam. Sol. 1: Flammable solids - Category 1

