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	according to 1907/2006/EC, Article 31	
inting date 21.07	2021	Revision: 21.07.202
SECTION 1	: Identification of the substance/mixture and of the con	mnanv/undortaking
		npuny/unacranng
· 1.1 Product ide	ntifier	
\cdot Trade name: <u>T</u>	antalum(V) oxide, 99.8% (99.99+%-Ta) PURATREM	
· Item number: 9	93-7306	
· CAS Number:		
1314-61-0		
· EC number:		
215-238-2		
· 1.2 Relevant id	entified uses of the substance or mixture and uses advised agains	t
No further relev	vant information available.	
. 1 3 Details of the	he supplier of the safety data sheet	
· Manufacturer/		
Strem Chemica		
7 Mulliken Way		
NEWBURYPO		
USA	,	
info@strem.com	n	
	CHEMTREC: + 1 (800) 424-9300 opening times: +1 (978) 499-1600	
SECTION 2	Hazards identification	
	ла а, ч,	
	on of the substance or mixture	
	according to Regulation (EC) No 1272/2008 s not classified according to the CLP regulation.	
	s not classified according to the CLI regulation.	
· 2.2 Label eleme		
	rding to Regulation (EC) No 1272/2008 Void	
· Hazard pictogr		
· Signal word Va		
· Hazard stateme		
· Precautionary		
P262	Do not get in eyes, on skin, or on clothing.	
P280	Wear protective gloves/protective clothing/eye protection/face	
P305+P351+P	338 IF IN EYES: Rinse cautiously with water for several minu	ites. Remove contact lenses,
D204 - D240	present and easy to do. Continue rinsing.	
P304+P340	IF INHALED: Remove person to fresh air and keep comfortab	le for breathing.

P304+P340IF INHALED: Remove person to fresh air and keep comfortable for breathing.P403+P233Store in a well-ventilated place. Keep container tightly closed.P501Dispose of contents/container in accordance with local/regional/national/internationalregulations.

· 2.3 Other hazards

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· 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

1314-61-0 ditantalum pentaoxide

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• Identification number(s)

• EC number: 215-238-2

SECTION 4: First aid measures

• 4.1 Description of first aid measures

- · General information: No special measures required.
- 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.
- 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 Not required.
- · 6.2 Environmental precautions: No special measures required.
- \cdot 6.3 Methods and material for containment and cleaning up:
- Dispose contaminated material as waste according to item 13.
- · 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 measures required.
- Information about fire and explosion protection: No special measures required.
- · 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: None.
- 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.

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	(Contd. of page
 8.1 Control parameters Ingredients with limit values that requi Additional information: The lists valid 	ire monitoring at the workplace: Not required. during the making were used as basis.
 8.2 Exposure controls Personal protective equipment: General protective and hygienic measures are to the usual precautionary measures are to the sepiratory protection: Not required. Protection of hands: 	tres: to be adhered to when handling chemicals.
Protective gloves	
	ble and resistant to the product/ the substance/ the preparation. on to the glove material can be given for the product/ the preparation/ th
 Material of gloves The selection of the suitable gloves does varies from manufacturer to manufactu. Penetration time of glove material 	
observed. • Eye protection: Safety glasses	be found out by the manufacturer of the protective gloves and has to b
• 9.1 Information on basic physical and • General Information • Appearance:	chemical properties
Form:	Powder
Colour:	White
· Odour: · Odour threshold:	Odourless Not determined.
· pH-value:	Not applicable.
· Change in condition	
Melting point/freezing point:	1.800 °C
Initial boiling point and boiling rang	e: Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gas):	Product is not flammable.
· Ignition temperature:	
Decomposition temperature:	Not determined.
• Auto-ignition temperature:	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
• Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure:	Not applicable.
· Density at 20 •C:	$8.2 \ g/cm^3$
· Relative density	Not determined.
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		(Contd. of page
· 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.
- \cdot 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.

· LD/LC50 values relevant for classification:

1314-61-0 ditantalum pentaoxide

Oral LD50 8000 mg/kg (rat)

· 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.
- · 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 **Reproductive toxicity** Based on available data, the classification criteria are not met.
- \cdot **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.
- $\cdot \textit{Aspiration hazard Based on available data, the classification criteria are not met.}$

SECTION 12: Ecological information

· 12.1 Toxicity

• Aquatic toxicity: No further relevant information available.

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- · 12.2 Persistence and degradability No further relevant information available.
- \cdot 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- \cdot 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 Disposal must be made according to official regulations.
- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information	tion	
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	not regulated	
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	not regulated	
· 14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	not regulated	
· 14.4 Packing group · ADR, IMDG, IATA	not regulated	
· 14.5 Environmental hazards: · Marine pollutant:	No	
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Transport in bulk according to Ann Marpol and the IBC Code	nex II of Not applicable.	
· UN ''Model Regulation'':	not regulated	

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.

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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)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative