1		Page 1/6				
NC.	Safety data sheet according to 1907/2006/EC, Article 31					
Printing dat	e 20.07.2021	Revision: 20.07.2021				
SECT	ON 1: Identification of the substance/mixture and of the com	pany/undertaking				
• 1.1 Proc	luct identifier					
· Trade n	ame: <u>Titanium silicide (99+%-Ti)</u>					
• CAS Nu 12039-8 • EC nun 234-904 • 1.2 Rele	3-7 ber:					
• Manufa Strem C 7 Mullik NEWBU USA	t ils of the supplier of the safety data sheet cturer/Supplier: hemicals, Inc. ten Way /RYPORT, MA 01950 rem.com					
· 1.4 Eme EMERC	<i>information obtainable from: Technical Department</i> <i>rgency telephone number:</i> <i>ENCY: CHEMTREC: + 1 (800) 424-9300</i> <i>normal opening times: +1 (978) 499-1600</i>					
SECT	ON 2: Hazards identification					
· Classifi	sification of the substance or mixture cation according to Regulation (EC) No 1272/2008 stance is not classified according to the CLP regulation.					

· 2.2 Label elements · Labelling according to Regulation (EC) No 1272/2008 Void

- · Hazard pictograms Void
- · Signal word Void

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- · Hazard statements Void
- · 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.
- · 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
- 12039-83-7 Titanium silicide (99+%-Ti)

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• Identification number(s)

• EC number: 234-904-3

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.
- · 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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	<i>quire monitoring at the workplace: Not required.</i> <i>Iid during the making were used as basis.</i>
8.2 Exposure controls Personal protective equipment: General protective and hygienic med The usual precautionary measures an Respiratory protection: Not required Protection of hands:	re to be adhered to when handling chemicals.
Protective gloves	
Due to missing tests no recommendation chemical mixture. Selection of the glove material on con Material of gloves The selection of the suitable gloves d varies from manufacturer to manufact Penetration time of glove material	eable and resistant to the product/ the substance/ the preparation. ation to the glove material can be given for the product/ the preparation/ th nsideration of the penetration times, rates of diffusion and the degradation loes not only depend on the material, but also on further marks of quality an cturer.
observed. Eye protection: Safety glasses	
Eye protection: Safety glasses 9.1 Information on basic physical an	nd chemical properties
Eye protection: Safety glasses	nd chemical properties
Eye protection: Safety glasses 9.1 Information on basic physical an General Information Appearance: Form:	nd chemical properties Powder
Eye protection: Safety glasses 9.1 Information on basic physical ar General Information Appearance: Form: Colour:	Powder Grey
Eye protection: Safety glasses 9.1 Information on basic physical ar General Information Appearance: Form: Colour: Odour:	Powder Grey Odourless
Eye protection: Safety glasses 9.1 Information on basic physical ar General Information Appearance: Form: Colour: Odour: Odour threshold:	Powder Grey Odourless Not determined.
Eye protection: Safety glasses 9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour: pH-value:	Powder Grey Odourless
Eye protection: Safety glasses 9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour: pH-value:	Powder Grey Odourless Not determined. Not applicable. 1.540 °C
Eye protection: Safety glasses 9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling ra	Powder Grey Odourless Not determined. Not applicable. 1.540 °C
Eye protection: Safety glasses 9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling ra Flash point:	Powder Grey Odourless Not determined. Not applicable. 1.540 °C unge: Undetermined.
Eye protection: Safety glasses 9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point:	Powder Grey Odourless Not determined. Not applicable. 1.540 °C Inge: Undetermined. Not applicable.
Eye protection: Safety glasses 9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling ra Flash point: Flammability (solid, gas):	Powder Grey Odourless Not determined. Not applicable. 1.540 °C Inge: Undetermined. Not applicable.
Eye protection: Safety glasses 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling rat Flash point: Flammability (solid, gas): Ignition temperature: Decomposition temperature:	Powder Grey Odourless Not determined. Not applicable. 1.540 °C Inge: Undetermined. Not applicable. Product is not flammable.
Eye protection: Safety glasses 9.1 Information on basic physical an General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling ra Flash point: Flammability (solid, gas): Ignition temperature:	Powder Grey Odourless Not determined. Not applicable. 1.540 °C Inge: Undetermined. Not applicable. Product is not flammable. Not determined.
Eye protection: Safety glasses 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling rat Flash point: Flammability (solid, gas): Ignition temperature: Decomposition temperature: Auto-ignition temperature:	Powder Grey Odourless Not determined. Not applicable. 1.540 °C Inge: Undetermined. Not applicable. Product is not flammable. Not determined. Not determined.
Eye protection: Safety glasses9.1 Information on basic physical and General InformationAppearance: Form: Colour:Odour:Odour:Odour threshold:pH-value:Change in condition Melting point/freezing point: Initial boiling point and boiling radFlash point:Flammability (solid, gas):Ignition temperature: Decomposition temperature:Auto-ignition temperature:Explosive properties:	Powder Grey Odourless Not determined. Not applicable. 1.540 °C Inge: Undetermined. Not applicable. Product is not flammable. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.
Eye protection: Safety glasses9.1 Information on basic physical arGeneral InformationAppearance: Form: Colour:Odour: Odour threshold:Odour threshold:pH-value:Change in condition Melting point/freezing point: Initial boiling point and boiling raFlash point:Flammability (solid, gas):Ignition temperature: Decomposition temperature:Auto-ignition temperature:Explosive properties:Explosion limits:	Powder Grey Odourless Not determined. Not applicable. 1.540 °C Inge: Undetermined. Not applicable. Product is not flammable. Not determined. Not determined. Not determined. Product does not present an explosion hazard.
Eye protection: Safety glasses 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling radiation Flash point: Flammability (solid, gas): Ignition temperature: Decomposition temperature: Auto-ignition temperature: Explosive properties: Explosion limits: Lower:	Powder Grey Odourless Not determined. Not applicable. 1.540 °C Inge: Undetermined. Not applicable. Product is not flammable. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.
Eye protection: Safety glasses 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition Melting point/freezing point: Initial boiling point and boiling rad Flash point: Flammability (solid, gas): Ignition temperature: Decomposition temperature: Auto-ignition temperature: Explosive properties: Explosion limits: Lower: Upper:	Powder Grey Odourless Not determined. Not applicable. 1.540 °C mge: Undetermined. Not applicable. Product is not flammable. Not determined. Not determined. Not determined. Not determined. Not determined. Not determined.

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· 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 %	
VÕC (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.
- 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.
- · 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.

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- \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.
- \cdot 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.

14.1 UN-Number	not recordered	
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, IMDĞ, 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	vex II of	
Marpol and the IBC Code	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.

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.

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Contact: Technical Director	
Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangere	euses par Route (European Agreement concerning the International
Carriage of Dangerous Goods by Road)	
MDG: International Maritime Code for Dangerous Goods	
ATA: International Air Transport Association	
GHS: Globally Harmonised System of Classification and Labelling of C	Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substa	inces
CAS: Chemical Abstracts Service (division of the American Chemical S	'ociety)
VOC: Volatile Organic Compounds (USA, EU)	
PBT: Persistent, Bioaccumulative and Toxic	
PvB: very Persistent and very Bioaccumulative	

