Safety data sheet according to 1907/2006/EC, Article 31				
Revision: 20.07.2021				
ompany/undertaking				
st				

· Classification according to Regulation (EC) No 1272/2008 The substance 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 · 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

12045-63-5 Titanium boride, 99%

(Contd. on page 2)

GB

Printing date 20.07.2021

Revision: 20.07.2021

(Contd. of page 1)

Trade name: Titanium boride, 99%

· Identification number(s)

• EC number: 234-961-4

# **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.

(Contd. on page 3)

<sup>-</sup> GB

Printing date 20.07.2021

CHEMICALS, INC.

Revision: 20.07.2021

Trade name: Titanium boride, 99%

	(Contd. of page 2
8.1 Control parameters Ingredients with limit values that reque Additional information: The lists valia	<b>ire monitoring at the workplace:</b> Not required. I during the making were used as basis.
8.2 Exposure controls Personal protective equipment: General protective and hygienic measures The usual precautionary measures are Respiratory protection: Not required. Protection of hands:	<b>ures:</b> to be adhered to when handling chemicals.
Protective gloves	
Due to missing tests no recommendation chemical mixture. Selection of the glove material on cons	ble and resistant to the product/ the substance/ the preparation. on to the glove material can be given for the product/ the preparation/ th ideration of the penetration times, rates of diffusion and the degradation
varies from manufacturer to manufactu Penetration time of glove material	es not only depend on the material, but also on further marks of quality an arer. be found out by the manufacturer of the protective gloves and has to b
observed.	be jound out by the manufacturer of the protective gloves and has to b
observed. Eye protection: Safety glasses	
observed. Eye protection: Safety glasses 9.1 Information on basic physical and	
observed. Eye protection: Safety glasses 9.1 Information on basic physical and General Information	
observed. Eye protection: Safety glasses 9.1 Information on basic physical and General Information Appearance:	chemical properties
observed. Eye protection: Safety glasses 9.1 Information on basic physical and General Information Appearance: Form:	chemical properties Powder
observed. Eye protection: Safety glasses 9.1 Information on basic physical and General Information Appearance: Form: Colour:	chemical properties Powder Grey
observed. Eye protection: Safety glasses 9.1 Information on basic physical and General Information Appearance: Form:	chemical properties Powder
observed. Eye protection: Safety glasses 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour:	chemical properties Powder Grey Odourless
observed. Eye protection: Safety glasses 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour threshold:	Powder Grey Odourless Not determined.
observed. 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:	Powder Grey Odourless Not determined. Not applicable. 2.900 °C
observed. Eye protection: Safety glasses 9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour threshold: pH-value: Change in condition	Powder Grey Odourless Not determined. Not applicable. 2.900 °C
observed. 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:	Powder Grey Odourless Not determined. Not applicable. 2.900 °C
observed. 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 rang Flash point:	Chemical properties   Powder   Grey   Odourless   Not determined.   Not applicable.   2.900 °C   ge: Undetermined.
observed. 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 rang	Powder Grey Odourless Not determined. Not applicable. 2.900 °C ge: Undetermined. Not applicable.
observed. 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 rang Flash point: Flammability (solid, gas):	Powder Grey Odourless Not determined. Not applicable. 2.900 °C ge: Undetermined. Not applicable.
observed. 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 rang Flash point: Flammability (solid, gas): Ignition temperature:	Chemical properties   Powder   Grey   Odourless   Not determined.   Not applicable.   2.900 °C   ge: Undetermined.   Not applicable.   Product is not flammable.
observed. 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 rang Flash point: Flammability (solid, gas): Ignition temperature: Decomposition temperature:	Powder Grey Odourless Not determined. Not applicable. 2.900 °C ge: Undetermined. Not applicable. Product is not flammable. Not determined.
observed. 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 rang Flash point: Flammability (solid, gas): Ignition temperature: Decomposition temperature: Auto-ignition temperature: Explosive properties:	Powder   Grey   Odourless   Not determined.   Not applicable.   2.900 °C   ge: Undetermined.   Not applicable.   Product is not flammable.   Not determined.   Not determined.
observed. 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 rang Flash point: Flammability (solid, gas): Ignition temperature: Decomposition temperature: Auto-ignition temperature:	Powder Grey Odourless Not determined. Not applicable. 2.900 °C ge: Undetermined. Not applicable. Product is not flammable. Not determined. Not determined. Not determined.
observed. 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 rang Flash point: Flammability (solid, gas): Ignition temperature: Decomposition temperature: Auto-ignition temperature: Explosive properties: Explosion limits:	Powder   Grey   Odourless   Not determined.   Not applicable.   2.900 °C   ge: Undetermined.   Not applicable.   Product is not flammable.   Not determined.   Not determined.   Product is not flammable.   Product does not present an explosion hazard.
observed. 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 rang Flash point: Flammability (solid, gas): Ignition temperature: Decomposition temperature: Auto-ignition temperature: Explosive properties: Explosion limits: Lower:	Chemical properties   Powder   Grey   Odourless   Not determined.   Not applicable.   2.900 °C   ge: Undetermined.   Not applicable.   Product is not flammable.   Not determined.   Not determined.   Product does not present an explosion hazard.   Not determined.   Not determined.
observed. 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 rang Flash point: Flammability (solid, gas): Ignition temperature: Decomposition temperature: Explosive properties: Explosion limits: Lower: Upper:	Chemical properties   Powder   Grey   Odourless   Not determined.   Not applicable.   2.900 °C   ge: Undetermined.   Not applicable.   Product is not flammable.   Not determined.   Not determined.

Printing date 20.07.2021

Revision: 20.07.2021

Trade name: Titanium boride, 99%

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

# **SECTION 12: Ecological information**

· 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- · 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.

(Contd. on page 5)

GB

Printing date 20.07.2021

Revision: 20.07.2021

Trade name: Titanium boride, 99%

· 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		
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 Anne	ex II of	
Marpol and the IBC Code	Not applicable.	

# **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.

(Contd. on page 6)

CHEMICALS, INC.

(Contd. of page 4)

<sup>-</sup> GB

Printing date 20.07.2021

Revision: 20.07.2021

# Trade name: Titanium boride, 99%

	(Contd. of page 5)
Contact: Technical Director	
Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement conce	rning the International
Carriage of Dangerous Goods by Road)	-
IMDG: International Maritime Code for Dangerous Goods	
ATA: 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	
	GB

