## **EU – Safety Data Sheet**

According to EU Directive 1907/2006 (REACH)
Date of issue: 01.09.2018 Revision: 2

SILADENT
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Printing date: 26.02.2019

Titan BioStar Grade 5

## 1. Identification of the substance / Preparation and Company:

Product identifier:

Commercial product name: Titan BioStar - Grade 5

Substance/ preparation: Ti Al6V4 allov

Details of the supplier of the safety data sheet

Manufacturer/Supplier: SILADENT Dr. Böhme & Schöps GmbH

Street / mailbox: Im Klei 26

Country code. / postal code / city: DE - 38644 Goslar Phone: +49 (0) 53 21 / 37 79 - 0 Fax: +49 (0) 53 21 / 38 96 32

E-mail / Website: <a href="mailto:info@siladent.de">info@siladent.de</a> / <a href="www.siladent.de">www.siladent.de</a> / <a href="www.siladent.de">www.siladent.de</a> / <a href="www.siladent.de">SILADENT Dr. Böhme & Schöps GmbH</a>

Emergency telephone number

SILADENT Dr. Böhme & Schöps GmbH: +49 (0) 53 21 / 37 79 - 0 (Mon-Fri. 8 a.m. - 4 p.m.)

## 2. Hazards Identification:

Titanium is attacked vigorously by hydrofluoric/nitric acid mixtures: can ignite in the presence of dry chlorine at room temperature; explosive reactions with red fuming nitric acid have been reported (not with normal concentrations): undergoes a termite-like reaction with iron oxide at elevated temperatures

## 3. Composition / Information on Ingredients:

Semi-finished product made of pure titanium DIN ISO 5832-2

Information on the chemical composition is contained in technical standards and regulations

%	CAS-Nb.
90	7440-48-4
6	7429-90-5
4	7440-62-2
	90

#### 4. First aid measures:

After inhalation: N/A
After skin contact: N/A
After eye contact: N/A
After swallowing: N/A

## 5. Fire Fighting measures:

Suitable extinguishing agents: Cover with dry sand or salt.

Extinguishing media that are suitable on

safety grounds:

Specific hazards due to the product itself, its No information.

combustion products or resulting gases:

Specific protective equipment for fire-

fighting:

Water, foam, liquids, gas-filled or similar fire extinguishers.

Conventional safety equipment practices.

#### 6. Accidental release measures:

Personal safety precautions: Conventional safety equipment practices.

Environmental precautions: No know evidence for negative behaviour of the product in the

environment.

Methods for cleaning up: Conventional cleaning processes for semi-finished metallic

products.

7. Handling and Storage:

Handling: No restrictions. Storage: No restrictions.

## 8. Exposure controls / Personal protection:

Exposure limits:

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Measures for limiting Exposure and

Monitoring:

Technical measures:

Parameters to monitor: None.

Personal protective equipment:

Breathing protections:

Skin protection: Protective gloves. Eye protection: Safety glasses.

Body protection: Suitable protective clothing.

9. Physical and chemical properties:

Appearance: Silver-gray metal, similar to stainless steel, generally duller

appearance.

Physical state: Solid

Odour: None PH-value: N/A

Melting point / Melting range:

Boiling point or range:

Ca. 1650°C

Ca. 3660°C

Flash point:

No information.

Flammability: No flammability for the rod metal: accumulations of machining

chips or other finely divided forms of the substance should be avoided, and these should be removed from the vicinity of active machines and stored temporarily in closed steel

containers at a separate location.

Self-ignitability: Can ignite in the presence of dry chlorine at room temperature.

Explosion hazard: Explosive reactions with red fuming nitric acid have been

reported (not with normal concentrations).

Oxidizing properties:

Vapour pressure:

Relative density:

No information.

4,5 g/cm³

Solubility: Insoluble in water. Partition coefficient: No information.

Other data:

10. Stability and Reactivity:

Conditions to avoid: Titanium is attacked vigorously by hydrofluoric/nitric acid

mixtures

Substances to avoid: Can ignite in the presence of dry chlorine at room temperature;

explosive reactions with red fuming nitric acid have been reported (not with normal concentrations): undergoes a termite-like reaction with iron oxide at elevated temperatures.

Hazardous decomposition products: Necessary / available stabilizer: -

Hazardous exothermic reactions:

Hazardous decomposition products on

contact with water:

Decomposition to unstable:

None.

None.

11. Toxicological Information:

Inhalation: Titanium is non-toxic and is safe to handle in bulk form. Skin contact: However, if titanium dust or vapours are produced, it is

However, if titanium dust or vapours are produced, it is recommended to provide adequate suction or ventilation, in

order to avoid contact with the eyes or respiratory organs.

Eye contact: -

Swallowing: -

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12.	Ecological Information:	
	Mobility:	
	Persistence and degradability:  No known evidence for negative behaviour of the	
	Potential for bioaccumulation: product in the environment	
	Water toxicity:	
	Ecotoxicity:	
13.	Disposal Considerations:	
	Not for the semi-finished products.	
	Do not store in dust, grinding waste, and dust aggregates in suction cleaning devices!	
	Eliminate these as rapidly as possible.	
14.	. Transport Information:	
	Not a hazardous material with respect to the established ordinances.	
15.	Regulatory Information:	
	Designation according to EG guidelines:	
	Code letter and hazard designation of	
	product: None	
	Risk phrases:	
	Safety Phrases:	
	National regulations:	
16.	Further Information:	
	These data are based on our present knowledge and relate to the product in its as-delivered condition. They	

are intended to describe the safety requirements of our products and do not constitute a guarantee for any

N/A = not applicable

specific products properties.