

**Material Safety Data Sheet**  
**According to EU directive 1907/2006 (REACH)**

**EUKAMED OHG**

Date: 01.09.18

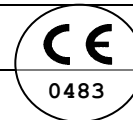
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Trade name:

**EUTITAN TiAl6V4, Grad 5**



### 1. Identification of substance

Trade name:

EUTITAN Grade 5, Ti Al6V4 alloy

Manufacturer/Supplier:

EUKAMED OHG, Cranachstr. 44, D 42549 Velbert, Germany  
Telephone : +49 (0) 2051 319404, fax: + 49 (0) 2051 319406  
eMail: info@eukamed.de

### 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/Data on components

Semi-finished product made of titanium alloy DIN ISO 5832-3

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

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

### 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 Agents that are unsuitable on safety grounds:	Water, foam, liquids, gas-filled or similar fire extinguishers
Specific hazards due to the product itself, its combustion products or resulting gases:	No information
Specific protective equipment for fire fighting:	Conventional safety equipment practices

### 6. Accidental release measures

Personal safety precautions:	Conventional safety equipment practices
Environmental precautions:	No known evidence for negative behaviour of the product in the environment
Clean-up methods:	Conventional cleaning processes for semi-finished metallic products

### 7. Handling and storage

Handling:	No restrictions
Storage:	No restrictions

### 8. Exposure controls and personal protective equipment

**Exposure limits:**

Measures for limiting Exposure and Monitoring:

Technical measures:

Parameters to monitor: None

**Personal protective equipment:**

Breathing protections:

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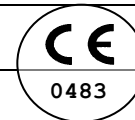
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Skin protection:

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 /or range:	Ca. 1650 °C
Boiling point /or range:	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:	No information
Vapour pressure:	No information
Relative density:	4,5 g/cm <sup>3</sup>
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:	None
Decomposition to unstable products:	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 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:

Potential for bioaccumulation:

Water toxicity:

Ecotoxicity:

No know evidence for negative behaviour of the product in the environment

## 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:

Risk phrases:

Safety phrases:

National regulations:

None

## 16. Other 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 specific products properties.

N/A = not applicable