

# Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 20 August 2021 Revision date: 20 August 2021 Version: 1.0

# **SECTION 1: Identification**

SECTION 1: Identification	
1.1. Identification	
Product form Trade name Product code	: Mixture : Ti-6AI-4V v.1 Rods : BMD-MP0008
1.2. Recommended use and restrictions or	n use
Use of the substance/mixture	: Metal rod for 3D Printing
1.3. Supplier	
Desktop Metal 63 3rd Avenue Burlington, MA 01803 T 978-224-1244 www.desktopmetal.com jaytobia@desktopmetal.com	
1.4. Emergency telephone number	
Emergency number	: 978-224-1244 (Hours: 9:00 am to 5:00 pm Eastern time) 800-424-9300 (CHEMTREC Day or Night)
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or mix	ture
GHS US classification Not classified	
2.2. GHS Label elements, including precau	itionary statements
GHS US labeling No labeling applicable	
2.3. Other hazards which do not result in c	assification
Other hazards which do not result in classification	: As supplied, metals in non-spontaneously combustible form.
2.4. Unknown acute toxicity (GHS US)	
Not applicable	

## **SECTION 3: Composition/Information on ingredients**

#### 3.1. Substances

#### Not applicable

## 3.2. Mixtures

Comments : This mixture contains a non-hazardous proprietary organic binder system This mixture does not contain any substances to be mentioned according to the criteria of section 3.2 of HazCom 2012

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SECTION 4: First-aid measures	
4.1. Description of first aid measures	
First-aid measures general :	Never give anything by mouth to an unconscious person. IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation :	Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact :	Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Get medical advice if skin irritation persists.
First-aid measures after eye contact :	Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion :	Rinse mouth. Do NOT induce vomiting. Get medical advice/attention if you feel unwell.
4.2. Most important symptoms and effects (ac	ute and delayed)
Symptoms/effects after inhalation :	Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
Symptoms/effects after skin contact :	Not expected to present a significant hazard under anticipated conditions of normal use.
	Dust may cause mechanical irritation.
Symptoms/effects after ingestion :	Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures	
5.1. Suitable (and unsuitable) extinguis	hing media
Suitable extinguishing media Unsuitable extinguishing media	<ul> <li>Dry powder. Sand. In case of fire involving metal dust, use fire extinguisher class D.</li> <li>Halons. ABC-powder. Water. Foam. Carbon dioxide (CO2).</li> </ul>
5.2. Specific hazards arising from the c	hemical
Fire hazard	: Not expected to be a fire/explosion hazard under normal conditions of use. On combustion forms: Irritating fumes. Metal oxides.
Explosion hazard	: No direct explosion hazard.
5.3. Special protective equipment and p	precautions for fire-fighters
Firefighting instructions	: Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release	measures	
6.1. Personal precautions, protecti	ve equipment and emergency procedures	
6.1.1. For non-emergency personnel		
Protective equipment Emergency procedures	<ul><li>No special protection required.</li><li>No additional risk management measures required.</li></ul>	
6.1.2. For emergency responders		
Protective equipment Emergency procedures	<ul><li>No special protection required.</li><li>No additional risk management measures required.</li></ul>	
6.2. Environmental precautions		
Prevent entry to sewers and public waters	).	

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6.3. Methods and material for contain	ment and cleaning up
For containment Methods for cleaning up	<ul> <li>Collect spillage.</li> <li>On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.</li> </ul>
Other information	: Dispose in a safe manner in accordance with local/national regulations.
6.4. Reference to other sections	

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

SECTION 7: Handling and stor	age
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	<ul> <li>Ensure good ventilation of the work station. Avoid contact with skin.</li> <li>Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle in accordance with good industrial hygiene and safety practice.</li> </ul>
7.2. Conditions for safe storage, i	ncluding any incompatibilities
Storage conditions	: Keep only in the original container in a cool, well ventilated place away from : Incompatible materials. Keep container closed when not in use.
Incompatible materials	: Strong acids. Oxidizing materials. Combustible materials. Halogenated hydrocarbons.

#### **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters
Ti-6Al-4V v.1 Rods
No additional information available
8.2. Appropriate engineering controls

Appropriate engineering controls

: Ensure good ventilation of the work station.

#### Hand protection:

Not required for normal conditions of use. Wear protective gloves to help prevent mechanical injury.

#### Eye protection:

Not required for normal conditions of use. Where excessive dust may result, wear goggles

8.3. Individual protection measures/Personal protective equipment

#### Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Wear appropriate breathing apparatus if air renewal not sufficient to maintain dust/vapor under TLV

#### Other information:

Do not eat, drink or smoke during use.

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#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Metal rod.
Color	: Gray
Odor	: Characteristic
Odor threshold	: No data available
рН	: No data available
Melting point	: > 1600 °C (2912 °F)
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 3.2 g/cm <sup>3</sup>
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

#### 9.2. Other information

No additional information available

### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

None under normal conditions.

**10.2. Chemical stability** 

Stable under normal conditions.

**10.3. Possibility of hazardous reactions** 

Hazardous polymerization will not occur. As supplied, metals in non-spontaneously combustible form.

**10.4. Conditions to avoid** 

Refer to section 7.

**10.5. Incompatible materials** 

Strong acids. Oxidizing materials. Combustible materials. Halogenated hydrocarbons.

#### **10.6. Hazardous decomposition products**

Under normal conditions of storage and use, hazardous decomposition products should not be produced. On combustion forms: Irritating fumes. Metal oxides.

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### **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
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Respiratory or skin sensitization	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure	: Not classified (Based on available data, the classification criteria are not met)
STOT-repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Viscosity, kinematic	: No data available
Symptoms/effects after inhalation	: Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
Symptoms/effects after skin contact	: Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	: Dust may cause mechanical irritation.
Symptoms/effects after ingestion	: Not expected to present a significant hazard under anticipated conditions of normal use.
Other information	
	: Likely routes of exposure: ingestion, inhalation, skin and eye.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: This material has not been tested for environmental effects.
12.2. Persistence and degradability	
No additional information available	
12.3. Bioaccumulative potential	
No additional information available	
12.4. Mobility in soil	
No additional information available	
12.5. Other adverse effects	
Other information	: Avoid release to the environment.

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Product/Packaging disposal recommendations Ecology - waste materials	<ul><li>Dispose in a safe manner in accordance with local/national regulations.</li><li>Avoid release to the environment.</li></ul>

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accordance with DOT / TDG / IMDO	G/IATA		
DOT	TDG	IMDG	IATA
14.1. UN number	·	·	·
Not regulated for transport			
14.2. Proper Shipping Name			
Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es	5)		
Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group	·		
Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards		·	
Not applicable	Not applicable	Not applicable	Not applicable

### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

No additional information available

15.2. International regulations

#### CANADA

No additional information available

#### **EU-Regulations**

No additional information available

#### **National regulations**

No additional information available

#### 15.3. US State regulations

No additional information available

## **SECTION 16: Other information**

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Revision date Other information : 20 August 2021 : None.

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.