Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

Ti6Al4V ASTM Gd23 powder 15-75 µm

Version 1.0	Revision Date 25.10.2023	Print Date 15.04.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name	: Ti6AI4V ASTM Gd23 powder 15-75	μm
Material number	: 031306UD0	

1.2 Relevant identified uses of the substance or mixture and uses advised against

This information is not available.

1.3 Details of the supplier of the safety data sheet

Company	: ECKART TLS GmbH PC-Straße 5 06749 Bitterfeld-Wolfen Germany
Telephone	: +493493929590
Telefax	: +4934939295999
E-mail address	: info.eckart.tls@altana.com
Responsible/issuing person	

1.4 Emergency telephone number

NCEC:

(contract no.: ECKART29003-NCEC) +44 1235 239671 (Middle East/Africa, call and response in your language) +1 215 207 0061 (Americas, call and response in your language) +65 3158 1074 (Asia-Pacific, call and response in your language)

SECTION 2: Hazards identification

GHS Classification

: Flammable solids, Category 1, H228

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GHS-Labelling		
Symbol(s)		
Signal word	: Danger	
Hazard statements	: H228: Flammable solid.	
Precautionary statements	 Prevention: P210 Keep away from heat, hot surfat flames and other ignition sources. No see the second second	moking. d receiving equipment. ventilating/ lighting tive clothing/ eye tection. extinction: Special

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Hazardous components which must be listed on the label

:

SECTION 3: Composition/information on ingredients

Substance No.

Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
titanium	7440-32-6	Flam. Sol.;1;H228	50 - 100
Internetin	1440 02 0		00 100

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	231-142-3		
For the full text of the H-Statements mentioned in this Section see Section 16			

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	 Move the victim to fresh air. Move out of dangerous area. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	 Remove to fresh air. If unconscious, place in recovery position and seek medical advice. If symptoms persist, call a physician.
In case of skin contact	 Wash off immediately with soap and plenty of water. If on clothes, remove clothes.
In case of eye contact	 Flush eyes with water as a precaution. Remove contact lenses. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.
If swallowed	 Keep respiratory tract clear. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

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SECTION 5: Firefighting measures

5.1 Extinguishing media Suitable extinguishing media : Dry sand, Special powder against metal fire : ABC powder, Carbon dioxide (CO2), Foam, Water Unsuitable extinguishing media High volume water jet 5.2 Special hazards arising from the substance or mixture Specific hazards during : Contact with water liberates extremely flammable gas firefighting (hydrogen). 5.3 Advice for firefighters Special protective equipment : Wear self-contained breathing apparatus for firefighting if for firefighters necessary.

Further information	: For safety reasons in case of fire, cans should be stored separately in closed containments. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use a water spray to cool fully closed containers.
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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment.
Evacuate personnel to safe areas.
Avoid dust formation.
Remove all sources of ignition.

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6.2 Environmental precautions

General advice	:	The product should not be allowed to enter drains, water courses or the soil. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

This information is not available.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	 Use mechanical handling equipment. Do not use a vacuum cleaner. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.
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6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Advice on safe handling : Avoid creating dust. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Store away from heat. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations. Advice on protection against : Use explosion-proof equipment. During processing, dust may fire and explosion form explosive mixture in air. Take measures to prevent the build up of electrostatic charge. When transferring from one container to another apply earthing measures and use conductive hose material.

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Ti6AI4V ASTM Gd23 powder 15-75 µm Version 1.0 Revision Date 25.10.2023 Print Date 15.04.2024 Provide appropriate exhaust ventilation at places where dust is formed. Keep away from open flames, hot surfaces and sources of ignition. Hygiene measures : Wash hands before breaks and at the end of workday. 7.2 Conditions for safe storage, including any incompatibilities Requirements for storage : Earthing of containers and apparatuses is essential. Reaction areas and containers with water liberates extremely flammable gas (hydrogen) Use explosion-proof equipment. Store in original container. Keep away from sources of ignition - No smoking. Keep container closed when not in use. No smoking. Keep container tightly closed in a dry and wellventilated place. Electrical installations / working materials must comply with the technological safety standards. Further information on : Protect from humidity and water. storage conditions Advice on common storage : Do not store together with oxidizing and self-igniting products. Never allow product to get in contact with water during storage. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions. Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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Germany:

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
titanium	7440-32-6	AGW (Inhalable fraction)	10 mg/m3	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further inform	ation		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		
titanium	7440-32-6	AGW (Alveolate fraction)	1,25 mg/m3	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information			ompliance with the no risk of harming t	•	ical tolerance
aluminium	7429-90-5	AGW (Inhalable fraction)	10 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
aluminium	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: exc factor (categor		2;(II)			

8.2 Exposure controls

Personal protective equipment

Eye protection	: Face-shield	
	: Tightly fitting safety goggles	
Hand protection		
Material	: Leather	
Glove length	: Long sleeve gloves	
Remarks	: Leather gloves	
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	The choice of an appropriate glove of the choice of an appropriate glove of its material but also on other quality from one producer to the other.	
	: The suitability for a specific workplace with the producers of the protective set.	
Skin and body protection	: Anti-static and fire resistant protective 11612; EN 533; EN 1149-1. Anti-stati	e clothing. DIN EN
	: Dust impervious protective suit	
	Choose body protection according to concentration of the dangerous subs	
Respiratory protection	: Use suitable breathing protection if v requires.	workplace concentration
	Breathing apparatus with filter.	
	P1 filter	
Environmental exposure c		
General advice	 The product should not be allowed to courses or the soil. Prevent product from entering drains Prevent further leakage or spillage if If the product contaminates rivers an respective authorities. 	s. safe to do so.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

9 / 16	102000026804	
Boiling point/boiling range	: No data available	
Freezing point	: No data available	
рН	: substance/mixture	e is non-soluble (in water)
Odour	: characteristic	
Colour	: No data available	
Appearance	: granular	

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Flash point	: No data available	
Bulk density	: No data available	
Flammability (solid, gas)	: The substance or with the category	mixture is a flammable solid 1.
Auto-flammability	: No data available	
Upper explosion limit	: No data available	
Lower explosion limit	: No data available	
Vapour pressure	: No data available	
Density	: No data available	
Solubility(ies)		
Water solubility	: insoluble	
Miscibility with water	: immiscible	
Solubility in other solvents	: No data available	
Partition coefficient: n-octanol/water	: No data available	
Ignition temperature	: No data available	
Thermal decomposition	: No data available	
Viscosity, dynamic	: No data available	
Viscosity, kinematic	: No data available	
Flow time	: No data available	

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No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

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No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions	: Contact with acids and alkalis may release hydrogen.
	No decomposition if stored and applied as directed.
	Dust may form explosive mixture in air.
10.4 Conditions to avoid	

Conditions to avoid : Heat, flames and sparks. 10.5 Incompatible materials

Materials to avoid	: Acids
	Bases
	Oxidizing agents
	Water

10.6 Hazardous decomposition products

Other information

: No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

No data available

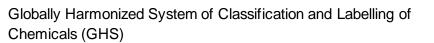
Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

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No data available

Respiratory or skin sensitisation

No data available

Carcinogenicity

No data available

Toxicity to reproduction/fertility

No data available

Reprod.Tox./Development/Teratogenicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information

Product

No data available

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SECTION 12: Ecological information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects

Product:

Additional ecological	:	No data available
information		

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	 Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container.
Contaminated packaging	 Send to a licensed waste management company. Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number	
ADR	: 3089
TDG	: 3089
CFR	: 3089
IMDG	: 3089
ΙΑΤΑ	: 3089
14.2 Proper shipping name	
ADR	: METAL POWDER, FLAMMABLE, N.O.S.
TDG	: METAL POWDER, FLAMMABLE, N.O.S.
CFR	: METAL POWDERS, FLAMMABLE, N.O.S.
IMDG	: METAL POWDER, FLAMMABLE, N.O.S.
ΙΑΤΑ	: METAL POWDER, FLAMMABLE, N.O.S.
14.3 Transport hazard class	
ADR	: 4.1

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TDG	: 4.1	
CFR	: 4.1	
IMDG	: 4.1	
ΙΑΤΑ	: 4.1	
4.4 Packing group		
ADR		
Packaging group	: 11	
Classification Code	: F3	
Hazard Identification Number	: 40	
Labels	: 4.1	
Tunnel restriction code	: (E)	
TDG		
Packaging group	: 11	
Labels	: 4.1	
CFR		
Packaging group	: 11	
Labels	: 4.1	
IMDG		
Packaging group	: 11	
Labels	: 4.1	
EmS Code	: F-G, S-G	
ΙΑΤΑ		
Packing instruction (cargo aircraft)	: 448	
Packing instruction (passenger aircraft)	: 445	
Packing instruction (LQ)	: Y441	
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Packaging group:IILabels:4.1

14.5 Environmental hazards

14.6 Special precautions for user

IMDG Code- segregation group:

- : IMDG Code segregation group 7 Heavy metals and their salts
- : IMDG Code segregation group 15 Powdered metals

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

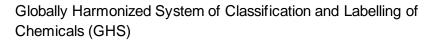
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). REACH - List of substances subject to authorisation (Annex XIV) Regulation (EC) No 1005/2009 on substances that deplete the ozone layer Regulation (EU) 2019/1021 on persistent organic pollutants (recast) REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

- : Not applicable
- : Not applicable
- : Not applicable
- : Not applicable
- : Banned and/or restricted (titanium)

15.2 Chemical safety assessment

No data available

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SECTION 16: Other information

Full text of H-Statements H228

: Flammable solid.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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