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

Ti6Al4V ASTM Gd23 powder 45-100 µm

Version 1.0	Revision Date 25.10.2023	Print Date 27.11.2024

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

1.1 Product identifier

Trade name	:	Ti6Al4V ASTM Gd23 powder 45-100 µm
Material number	:	031310UD0

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 Telefax E-mail address Responsible/issuing person	: +493493929590 : +4934939295999 : <u>info.eckart.tls@altana.com</u>

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

Not a hazardous substance or mixture.

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GHS-Labelling

Not a hazardous substance or mixture.

Hazardous components which must be listed on the label

:

Other hazards which do not result in classification

Combustible Solids

SECTION 3: Composition/information on ingredients

Substance No.

Hazardous components

Chemical name	CAS-No.	Classification and	Concentration[%]
	EINECS-No.	labelling	
titanium	7440-32-6	Flam. Sol.;1;H228	50 - 100
	231-142-3		

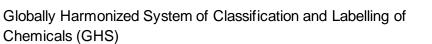
For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice	: Move the victim to fresh air.
lf inhaled	Do not leave the victim unattended. : 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.
In case of eye contact	: Remove contact lenses.
	If eye irritation persists, consult a specialist.

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If swallowed	: Keep respiratory tract clear. Do not give milk or alcoholic beverage Never give anything by mouth to an u 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				

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This information is not available.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	:	Dry sand, Special powder against metal fire
Unsuitable extinguishing media	:	ABC powder, Carbon dioxide (CO2), Foam, Water
5.2 Special hazards arising from	the	substance or mixture
Specific hazards during firefighting	:	Contact with water liberates extremely flammable gas (hydrogen).
5.3 Advice for firefighters		
Special protective equipment for firefighters	:	Wear self-contained breathing apparatus for firefighting if necessary.
Further information	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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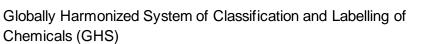
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Personal precautions	:	Use personal protective equipment. Evacuate personnel to safe areas. Avoid dust formation.			
6.2 Environmental precautions					
General advice	:	The product should not be allowed to ent courses or the soil. If the product contaminates rivers and lak respective authorities.			
This information is not available.					
6.3 Methods and materials for c	onta	inment and cleaning up			
Methods for cleaning up	:	Use mechanical handling equipment. Do not use a vacuum cleaner. Pick up and arrange disposal without cre Sweep up and shovel. Keep in suitable, closed containers for di	-		
6.4 Reference to other sections					
For personal protection see section 8.					
SECTION 7: Handling and storage					
7.1 Precautions for safe handling					

in the sale 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.
Advice on protection against fire and explosion	: Use explosion-proof equipment. During processing, dust may 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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Ti6Al4V ASTM Gd23 powder 45-100 μm

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	Provide appropr is formed.	iate exhaust ventilation	at places where dust
Hygiene measures	General industri	al hygiene practice.	
7.2 Conditions for safe storage, i	luding any incom	npatibilities	
Requirements for storage areas and containers	with water libera explosion-proof	ainers and apparatuses ites extremely flammabl equipment. Store in orig ces of ignition - No smol t in use.	le gas (hydrogen) Use ginal container. Keep
		ations / working material al safety standards.	s must comply with
Further information on storage conditions	Protect from hur	nidity and water.	
Advice on common storage	Never allow proo storage. Keep a	ether with oxidizing and duct to get in contact wi way from oxidizing age d materials in order to a	th water during nts, strongly alkaline
	No materials to	be especially mentioned	I.
Other data	No decompositi	on 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: exc factor (categor		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			ical tolerance
titanium	7440-32-6	AGW (Alveolate 1,25 mg/m3 2021-07-02 DE TRGS 90 fraction)			
Peak-limit: exc factor (categor		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			ical tolerance
aluminium	7429-90-5	AGW (Inhalable fraction)	10 mg/m3	2014-04-02	DE TRGS 900
Peak-limit: exc factor (categor		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

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Remarks	: Leather gloves	
Glove length	: Long sleeve gloves	
Material	: Leather	
Hand protection		
	: Safety glasses	
Eye protection	: Face-shield	



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		The choice of an appropriate glove doe its material but also on other quality fea from one producer to the other.	
Skin and body protection	:	Anti-static and fire resistant protective of 11612; EN 533; EN 1149-1. Anti-static	-
	:	Protective suit	
Respiratory protection	:	Use suitable breathing protection if wor requires.	kplace concentration
		Breathing apparatus with filter.	
		P1 filter	
	:	No personal respiratory protective equi required.	pment normally
Environmental exposure c	ontro	bls	
General advice	:	The product should not be allowed to e courses or the soil.	nter drains, water
	:	If the product contaminates rivers and I respective authorities.	akes or drains inform

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: granular
Colour	: No data available
Odour	: characteristic
рН	: substance/mixture is non-soluble (in water)
Freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: No data available
Bulk density	: No data available

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Flammability (solid, gas)	:	Combustible Solids
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

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

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10.3 Possibility of hazardous reactions

Hazardous reactions :	: Contact with acids and alkalis may release hydrogen.	
	Stable under recommended storage conditions.	
	Dust may form explosive mixture in air.	
10.4 Conditions to avoid		
Conditions to avoid : 10.5 Incompatible materials	No data available	
Materials to avoid :	Acids Bases Oxidizing agents Water	
10.6 Hazardous decomposition products		

Other information	: No data available
	. NU Uala avaliable

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

No data available

Respiratory or skin sensitisation

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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

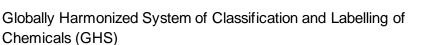
Product

No data available

SECTION 12: Ecological information

12.1 Toxicity

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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:

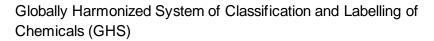
Additional ecological : No data available information

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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SECTION 14: Transport information

14.1 UN number

ADR

Not dangerous goods

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.2 Proper shipping name

ADR

Not dangerous goods

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.3 Transport hazard class

ADR

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Not dangerous	goods
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TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.4 Packing group

ADR

Not dangerous goods

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.5 Environmental hazards

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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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).: NotREACH - List of substances subject to authorisation
(Annex XIV): NotRegulation (EC) No 1005/2009 on substances that
deplete the ozone layer
Regulation (EU) 2019/1021 on persistent organic
pollutants (recast): NotREACH - Restrictions on the manufacture, placing on
the market and use of certain dangerous substances,
mixtures and articles (Annex XVII): Not

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

15.2 Chemical safety assessment

No data available

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





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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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