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

Ti-CP ASTM Gd2 powder Size L3 (20-63µm)

Version 2.0	Revision Date 23.11.2023	Print Date 15.04.2024

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

1.1 Product identifier

Trade name	: Ti-CP ASTM Gd2 powder Size L3 (20-63µm)
Material number	: 031251UD0

Substance No.	:	CAS-No.	:	7440-32-6
		EINECS-No.	:	231-142-3

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)

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CTION 2: Hazards identif	ication
GHS Classification	: Flammable solids, Category 1, H228
GHS-Labelling	
Symbol(s)	
Signal word	: Danger
Hazard statements	: H228: Flammable solid.
Precautionary statements	 Prevention: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P240 Ground and bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting equipment. P280 Wear protective gloves/protective clothing/ eye protection/ face protection/ hearing protection. Response: P370 + P378 In case of fire: Use for extinction: Special powder for metal fires. P370 + P378 In case of fire: Use for extinction: Dry sand.

Identification	CAS-No.
titanium	7440-32-6

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SECTION 3: Composition/information on ingredients

Substance No.	:	CAS-No.	:	7440-32-6
		EINECS-No.	:	231-142-3

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		

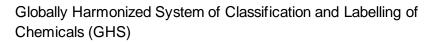
For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

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

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

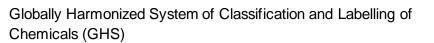
5.2 Special hazards arising from the substance or mixture

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	:	For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions	: Use personal protective equipment. Evacuate personnel to safe areas.		
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	Avoid dust formation. Remove all sources of ignition.	
6.2 Environmental precautions		
General advice	 The product should not be allowed courses or the soil. Prevent product from entering dra Prevent further leakage or spillage If the product contaminates rivers respective authorities. 	ins. e if safe to do so.
This information is not available	•	
6.3 Methods and materials for cor	ntainment and cleaning up	
Methods for cleaning up	: Use mechanical handling equipme Do not use a vacuum cleaner. Contain spillage, and then collect vacuum cleaner or by wet-brushin disposal according to local regula Keep in suitable, closed container	with an electrically protected g and place in container for tions (see section 13).
6.4 Reference to other sections	1 /	•
For personal protection see see	ction 8.	
SECTION 7: Handling and stor	age	
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 fire and explosion	: Use explosion-proof equipment. During processing, dust may form explosive mixture in air. Take measures to prevent the	
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		build up of electrostatic charge. When tr container to another apply earthing mea conductive hose material.	
		Provide appropriate exhaust ventilation is formed. Keep away from open flames sources of ignition.	
Hygiene measures	:	Wash hands before breaks and at the en	nd of workday.
7.2 Conditions for safe storage,	incl	uding any incompatibilities	
Requirements for storage areas and containers		Earthing of containers and apparatuses with water liberates extremely flammabl explosion-proof equipment. Store in orig away from sources of ignition - No smole closed when not in use.	e gas (hydrogen) Use jinal container. Keep
		No smoking. Keep container tightly clos ventilated place. Electrical installations / must comply with the technological safe	working materials
Further information on storage conditions	:	Protect from humidity and water.	
Advice on common storage	:	Do not store together with oxidizing and Never allow product to get in contact with storage. Keep away from oxidizing ager and strongly acid materials in order to a reactions.	th water during hts, strongly alkaline
Other data	:	No decomposition if stored and applied	as directed.

7.3 Specific end use(s)

This information is not available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

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 biologica values, there is no risk of harming the unborn child		cal tolerance	
titanium	7440-32-6	AGW (Alveolate fraction)	1,25 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			cal tolerance

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
		The choice of an appropriate glove does not only depend on its material but also on other quality features and is different

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	from one producer to the other.				
	: The suitability for a specific workplac with the producers of the protective g				
Skin and body protection	: Anti-static and fire resistant protective 11612; EN 533; EN 1149-1. Anti-stati				
	: Dust impervious protective suit				
	Choose body protection according to concentration of the dangerous subst				
Respiratory protection	: Use suitable breathing protection if w requires.	orkplace concentration			
	Breathing apparatus with filter.				
	P1 filter				
Environmental exposure controls					
General advice	 The product should not be allowed to courses or the soil. Prevent product from entering drains. Prevent further leakage or spillage if a lf the product contaminates rivers and respective authorities. 	safe to do so.			

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

: granular	
: silver	
: characteristic	
: substance/mixture is non-soluble (in water)	
: No data available	
: No data available	
: No data available	
	 silver characteristic substance/mixture is non-soluble (in water) No data available No data available

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Bulk density	:	No data available
Flammability (solid, gas)		The substance or mixture is a flammable solid with the category 1.
Auto-flammability	:	No data available
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Vapour pressure	:	No data available
Density	:	4,5 g/cm3 (25 °C)
Solubility(ies)		
Water solubility	:	insoluble
Miscibility with water	:	immiscible
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/wa	ter :	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		

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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

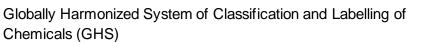
Aspiration toxicity

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



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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 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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