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	TION 1: Identification of the substand	ce/mixture and of the compa	any/undertaking
1.1	Product identifier: Commercial product name:	Titan BioStar - Gra	de 5
1.2	Relevant identified uses of the subs or mixture and uses advised agains		information available.
	Application of the substance / the n	nixture: For the production laboratory	of dental prostheses in the dental
1.3	Details of the supplier of the safety Manufacturer: Street / mailbox: Country code. / postal code / city: Phone: E-mail / Website: Information:	Eisenbacher Denta Dr Konrad - Wieg 63939 Wörth / Main 0049 9372 / 94 04 www.eisenbacher.d	gand - Straße 9 n, Germany - 0 <u>de</u> ent tel.: +49 93 72 - 94 04 - 0
	Supplier: Street / mailbox: Country code. / postal code / city: Phone: Fax: E-mail / Website:	ERNST HINRICHS Borsigstr. 1 DE - 38644 Goslar +49 (0) 53 21 / 5 00 0 53 21 / 5 08 81 info@hinrichs-dent	
1.4	Emergency telephone number:	pm MEZ in Germa	5 600, Monday to Friday 8.30 am to 3.15 n and English language t the national emergency numbers
SEC	TION 2: Hazards identification		
2.1	Classification of the substance or n Classification according to Regulat No 1272/2008:		to be classified according to the GB CLP
2.2	Label elements Labelling according to Regulation (1272/2008:	EC) No Void	
	Hazard pictograms:	Void	
	Signal word:	Void	
	Hazard statements:	Void	
SEC	TION 3: Composition/information on	ingredients	
3.2	Chemical characterisation:	Mixtures	
	Description:	Titanium alloy	
	Dangerous components: CAS: 7429-90-5 EINECS: 231-072-3 Index number:	aluminium powder Flam. Sol. 1, H228 013-002-00-1	(stabilised) ; Water-react. 2, H261

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	Additional information:	For the wording of the listed hazard phrases refer to section 16.
SEC	TION 4: First aid measures	
4.1	Description of first aid measures General information:	No special measures required.
	After inhalation:	Supply fresh air; consult doctor in case of symptoms.
	After skin contact:	Wash with water and soap.
	After eye contact:	Rinse opened eye for 15 minutes under running water. Then consult doctor.
	After swallowing:	Rinse out mouth and then drink plenty of water (approx. 500 ml). In case of persistent symptoms consult doctor.
4.2	Most important symptoms and effects, both acute and delayed:	No further relevant information available.
4.3	Indication of any immediate medical attention and special treatment needed	o further relevant information available.
SEC	TION 5: Firefighting measures	
5.1	Extinguishing Media:	
5.1	Suitable extinguishing media:	Use firefighting measures that suit the environment. CO2, extinguishing powder or water jet. Fight larger fires with foam. ABC powder Sand
	For safety reasons unsuitable extinguishing agents:	Water.
5.2	Special Hazards arising from the substance	Fire can cause release of :
•	or mixture:	Metal vapour and metal oxides as fumes.
5.3	Advice for fire fighters: Protective equipment:	Do not inhale explosion gases or combustion gases.
SEC	TION 6: Accidental release measures	
6.1	Personal precautions, protective equipment and emergency procedures:	Avoid causing dust. Wear protective clothing. Ensure adequate ventilation Use breathing protection against the effects of fumes/dust/aerosol.
6.2	Environmental precautions:	Do not allow product to reach sewage system or water bodies.
6.3	Methods and material for containment and clear up:	Collect mechanically.
6.4	Other information:	See section 7 for information on safe handling



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			See section	on 8 for information on p t.	ersonal pro	otection
SEC	TION 7: Handling and storage					
7.1	Precautions for safe handlin		Provide s Ensure go Extractors	ormation of dust. uction extractors if dust i bod ventilation/exhaustic are required on all mac g or metal removal proc	on at the wo	
	Information about protection explosions and fires:	n against	No specia	l measures required.		
7.2	Conditions for safe storage, Storage	including any in	incompatibilities			
	Requirements to be met by s containers:	storerooms and	Store only	in the original containe	r.	
	Information about storage in storage facility:	one common	Not requir	ed.		
	Further information about st conditions:	orage	Store in c	ool, dry conditions in we	II-sealed co	ontainers.
7.3	Specific end use(s):		No furthe	relevant information av	ailable.	
SEC	SECTION 8: Exposure controls/personal protection					
8.1						
	7429-90-5 aluminium powder WEL (Great Britain) Long-term *inhalable dust **respirable du	value: 10* 4** m	mg/m³			
	Ingredients with biological li CAS No. Designation of mate General dust exposure limit, measured as alveolic part		%	Type German TRGS 900 (2015)	Value 1,25	Unit mg/m3
	Additional information:		The lists t basis.	hat were valid during co	mpilation w	ere used as a
8.2	Exposure controls Personal protective equipme General protective and hygie Breathing equipment:		 The usual precautionary measures should be adhered to ir handling the chemicals. Wash hands during breaks and at the end of the work. Do not eat, drink or smoke while working. Avoid contact with the eyes and skin. Do not inhale dust / smoke / mist. Use breathing protection in case of insufficient ventilation. 		the work.	
	Breathing equipment.			ning protection in case of filter device: ABEK-filte		

Short term filter device: ABEK-filter Filter P3.



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Protection of hand	ls:	Protective gloves: In case of spray contact at least pro- recommended, according to more the time (EN 374). Layer thickness of gloves at least: 0 In case of prolonged and intensive of recommended, according to more the penetration time (EN 374). Layer thickness of gloves at least: 0	nan 30 min. penetration .4 mm contact protection index 6 nan 480 min.
Material of gloves:	:	Butyl rubber, BR Fluorocarbon rubber (Viton) Nitrile rubber, NBR Natural rubber, NR Chloroprene rubber, CR Neoprene gloves	
Penetration time o	f glove material:	The exact break through time has to manufacturer of the protective glove observed.	
Eye protection:		Safety glasses (DIN 58211, EN 166))
Body protection:		Light weight protective clothing	
SECTION 9: Physical an	d chemical properties		
	sic physical and chemical	properties	
General Information	on		
Appearance:			
Form:		Solid	
Colour: Smell:		Grey	
Odour threshold:		Odourless not applicable	
pH-value:		not applicable not applicable	
Change in condition	on	not applicable	
Melting point/freez		1,650-1,700 °C	
	t and boiling range:	not applicable	
Flash point:		not applicable	
Inflammability (sol		not applicable	
Auto-ignition temp		not applicable	
Decomposition ter Explosive properti		not determined Product is not explosive.	
Critical values for		Floduct is not explosive.	
Lower:		not applicable	
Dust explosion cla	ISS:		
Oxidising properti	es:	not applicable	
Steam pressure:		not applicable	
Density at 20 °C:		4.4 g/cm ³	
Evaporation rate: Solubility in / Misc	ibility with	not applicable	
Water:		Unsoluble	
Partition coefficier	nt: n-octanol/water:	not applicable	
Viscosity: dynamic:		not applicable	
kinematic:		not applicable not applicable	



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Solvent co Solids cor		100.0 %
9.2 Other info	rmation:	No further relevant information available.
	ability and reactivity	
10.1 Reactivity	:	No hazardous reactions when stored and handled according to instructions.
10.2 Chemical Thermal d avoided:	Stability: ecomposition / conditions to be	No decomposition if used according to specifications.
10.3 Possibility	of hazardous reactions:	No dangerous reactions known
10.4 Conditions	s to be avoided:	No further relevant information available.
10.5 Materials t	o be avoided:	No further relevant information available.
10.6 Hazardous	s decomposition products:	Formation of metal vapour when melting
	oxicological information n on hazard classes as defined i city:	n Regulation (EC) No 1272/2008 Based on the available information, the classification criteria are not fulfilled.
	ritant effect: sion/irritation:	Based on available data, the classification criteria are not met.
Serious ey	e damage/irritation:	Moderate irritation
Respirator	ry or skin sensitisation:	Based on available data, the classification criteria are not met.
Additional	toxicological information:	Inhalation of dust may cause irritation of the respiratory tract. Irritation of the eyes and skin is possible from direct contact with the dust.
Repeated	dose toxicity:	No further relevant information available.
	ts (carcinogenity, mutagenicity ty for reproduction):	No further relevant information available.
Germ cell	mutagenicity:	Based on available data, the classification criteria are not met.
Carcinoge	nicity:	Based on available data, the classification criteria are not met.
Reproduct	tive toxicity:	Based on available data, the classification criteria are not met.
STOT-sing	gle exposure:	Based on available data, the classification criteria are not met.



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STOT-repeated exposure:	Based on available met.	data, the classification criteria are not
Aspiration hazard:	Based on available met.	data, the classification criteria are not
SECTION 12: Ecological informati	on	
12.1 Toxicity:	No foutbon voluments	
Aquatic toxicity: 12.2 Persistence and degradabili Other information:	ty: No further relevant	nformation available. nformation available. pasicly not biodegradable.
12.3 Bioaccumulative potential:	Does not accumula	e in organisms
12.4 Mobility in soil: Ecotoxical effects:	No further relevant	nformation available.
Other information:	No COD, no BOD, r No VOC (0%) accor	no AOX rding to EC-directive 1999/13/EC
Additional ecological inform General notes:	Do not allow produc sewage system, eve	et to reach ground water, water bodies or en in small quantities. water if even extremely small quantities
12.5 Results of PBT and vPvB as PBT:		
vPvB:	Not applicable. Not applicable.	
12.6 Other adverse effects:	No further relevant	nformation available.
SECTION 13: Disposal considerat	ions	
13.1 Waste treatment methods Recommendation:	Do not allow produc	ed of together with household garbage. It to reach sewage system. eated in adherence to official regulations.
Uncleaned packaging: Recommendation:	recycled after thoro Packaging that can the same manner a	ng according to regulations on the
SECTION 14: Transport information	on	
14.1 UN number or ID number ADR/RID/ADN, IMDG, IATA:	Void	
14.2 UN proper shipping name ADR/RID/ADN, IMDG, IATA:	Void	
14.3 Transport hazard class(es) ADR/RID/ADN, IMDG, IATA Class:	Void	

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Revision: 18.04.2023 Version number 9 **Titan BioStar Grade 5** 14.4 Packing group ADR/RID/ADN, IMDG, IATA: Void 14.5 Environmental hazards Not applicable. 14.6 Special precautions for user: Not applicable. 14.7 Transport in bulk according to Annex II of Not applicable. Marpol and the IBC Code. Transport/Additional information: Not dangerous according to the above regulations. **UN "Model Regulation":** Void **SECTION 15: Regulatory information** 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Directive 2012/18/EU Named dangerous substances - ANNEX I: None of the ingredients is listed. 15.2 Chemical Safety Assessment: A Chemical Safety Assessment has not been carried out. **SECTION 16: Other information** These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. **Relevant phrases** H228 Flammable solid. H261 In contact with water releases flammable gases. Department issuing data specification AWETA sheet: Contact: sales manager, AWETA info@srl-dental.de Abbreviations and acronyms: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Sol. 1: Flammable solids - Category 1 Water-react. 2: Substances and mixtures which in contact with water emit flammable gases - Category 2 source ECHA: European Chemicals Agency, Sources: http://echa.europa.eu/ * Data compared to the previous version altered.