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Revision: 18.04.2023

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

Version number 9

1.1 Product identifier:

Commercial product name: Titan BioStar - Grade 5

1.2 Relevant identified uses of the substance

or mixture and uses advised against:

No further relevant information available.

Application of the substance / the mixture: For the production of dental prostheses in the dental

laboratory

1.3 Details of the supplier of the safety data sheet

Manufacturer:Eisenbacher Dentalwaren ED GmbHStreet / mailbox:Dr. - Konrad - Wiegand - Straße 9Country code. / postal code / city:63939 Wörth / Main, Germany

Phone: 0049 9372 / 94 04 - 0 E-mail / Website: www.eisenbacher.de

Information: product management tel.: +49 93 72 - 94 04 - 0

or by mail: info@eisenbacher.de

Supplier: ERNST HINRICHS Dental GmbH

Street / mailbox: Borsigstr. 1

Country code. / postal code / city: DE - 38644 Goslar Phone: +49 (0) 53 21 / 5 06 24 Fax: 0 53 21 / 5 08 81

E-mail / Website: info@hinrichs-dental.de / www.hinrichs-dental.de / <a href="mailto:www.hinri

1.4 Emergency telephone number: Tel.: +49 621 49085 600, Monday to Friday 8.30 am to 3.15

pm MEZ in German and English language

Please also contact the national emergency numbers

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC)

No 1272/2008:

The product is not to be classified according to the GB CLP

regulation.

2.2 Label elements

Labelling according to Regulation (EC) No

1272/2008:

Void

Hazard pictograms: Void

Signal word: Void

Hazard statements: Void

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Titanium alloy

Dangerous components:

CAS: 7429-90-5 aluminium powder (stabilised)

EINECS: 231-072-3 Flam. Sol. 1, H228; Water-react. 2, H261

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Additional information: For the wording of the listed hazard phrases refer to section

16.

SECTION 4: First aid measures

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.

Indication of any immediate medical 4.3

attention and special treatment needed

o further relevant information available.

SECTION 5: Firefighting measures

Extinguishing Media:

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.

SECTION 6: Accidental release measures

Personal precautions, protective Avoid causing dust.

equipment and emergency procedures: 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.

Other information: 6.4 See section 7 for information on safe handling

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See section 8 for information on personal protection equipment.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling: Prevent formation of dust.

Provide suction extractors if dust is formed.

Ensure good ventilation/exhaustion at the workplace. Extractors are required on all machines used for thermal

processing or metal removal processes.

Information about protection against

explosions and fires:

No special measures required.

Conditions for safe storage, including any incompatibilities 7.2

Storage

Requirements to be met by storerooms and Store only in the original container. containers:

Information about storage in one common

storage facility:

Not required.

Further information about storage

conditions:

Store in cool, dry conditions in well-sealed containers.

7.3 Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls/personal protection

Control parameters:

Components with critical values that require monitoring at the workplace:

7429-90-5 aluminium powder (stabilised)

WEL (Great Britain) Long-term value: 10* 4** mg/m3

*inhalable dust **respirable dust

Ingredients with biological limit values:

% CAS No. Designation of material Unit Type Value General dust exposure limit, German TRGS 900 mg/m3 1,25

measured as alveolic part (2015)

Additional information: The lists that were valid during compilation were used as a

basis.

8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures: The usual precautionary measures should be adhered to in

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.

Breathing equipment: Use breathing protection in case of insufficient ventilation.

Short term filter device: ABEK-filter

Filter P3.

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Protection of hands: Protective gloves:

In case of spray contact at least protection index 2

recommended, according to more than 30 min. penetration

time (EN 374).

Layer thickness of gloves at least: 0.4 mm

In case of prolonged and intensive contact protection index 6

recommended, according to more than 480 min.

penetration time (EN 374).

Layer thickness of gloves at least: 0.7 mm

Material of gloves: Butyl rubber, BR

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR Natural rubber, NR Chloroprene rubber, CR Neoprene gloves

Penetration time of glove material:

The exact break through time has to be found out by the

manufacturer of the protective gloves and has to be

observed.

Eye protection: Safety glasses (DIN 58211, EN 166)

Body protection: Light weight protective clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Appearance:

Form: Solid
Colour: Grey
Smell: Odourless
Odour threshold: not applicable
pH-value: not applicable

Change in condition

Melting point/freezing point:
Initial boiling point and boiling range:
Flash point:
Inflammability (solid, gaseous):
Auto-ignition temperature:
Decomposition temperature:

1,650-1,700 °C
not applicable
not applicable
not applicable
not determined

Explosive properties: Product is not explosive.

Critical values for explosion:

Lower: not applicable

Dust explosion class:

Oxidising properties:not applicableSteam pressure:not applicableDensity at 20 °C:4.4 g/cm³Evaporation rate:not applicable

Solubility in / Miscibility with

Water: Unsoluble Partition coefficient: n-octanol/water: not applicable

Viscosity:

dynamic: not applicable kinematic: not applicable

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Solvent content:

Solids content: 100.0 %

9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

10.1 Reactivity:No hazardous reactions when stored and handled according

to instructions.

10.2 Chemical Stability:

Thermal decomposition / conditions to be

avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: No dangerous reactions known

10.4 Conditions to be avoided:No further relevant information available.

10.5 Materials to be avoided: No further relevant information available.

10.6 Hazardous decomposition products: Formation of metal vapour when melting

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity:

Based on the available information, the classification criteria

are not fulfilled.

Primary irritant effect:

Skin corrosion/irritation:Based on available data, the classification criteria are not

met.

Serious eye damage/irritation: Moderate irritation

Respiratory 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.

CMR effects (carcinogenity, mutagenicity

and toxicity for reproduction):

No further relevant information available.

Germ cell mutagenicity: Based on available data, the classification criteria are not

met

Carcinogenicity:Based on available data, the classification criteria are not

met.

Reproductive toxicity:Based on available data, the classification criteria are not

met

STOT-single exposure: Based on available data, the classification criteria are not

met.

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STOT-repeated exposure: Based on available data, the classification criteria are not

met.

Aspiration hazard:Based on available data, the classification criteria are not

met.

SECTION 12: Ecological information

12.1 Toxicity:

Aquatic toxicity:

No further relevant information available.

Persistence and degradability:

No further relevant information available.

Other information: Inorganic salts are basicly not biodegradable.

12.3 Bioaccumulative potential:Does not accumulate in organisms

12.4 Mobility in soil:No further relevant information available.

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Ecotoxical effects:

Other information: No COD, no BOD, no AOX

No VOC (0%) according to EC-directive 1999/13/EC

Additional ecological information:

General notes: Do not allow product to reach ground water, water bodies or

sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities

leak into soil.

12.5 Results of PBT and vPvB assessment:

PBT: Not applicable. vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation: Must not be disposed of together with household garbage.

Do not allow product to reach sewage system.

Must be specially treated in adherence to official regulations.

Uncleaned packaging:

Recommendation: Empty contaminated packaging thoroughly. They can be

recycled after thorough and proper cleaning.

Packaging that cannot be cleaned are to be disposed of in

the same manner as the product.

Dispose of packaging according to regulations on the

disposal of packaging.

SECTION 14: Transport information

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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14.4 Packing group

ADR/RID/ADN, IMDG, IATA: Void

14.5 Environmental hazardsNot applicable.

14.6 Special precautions for user: Not applicable.

14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code.

Not applicable.

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

sheet:

AWETA

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

Sources: source ECHA: European Chemicals Agency,

http://echa.europa.eu/

^{*} Data compared to the previous version altered.