according to Regulation (EC) No. 1907/2006 (REACH) Issue date: 28.08.2020 Version 1.0

SILADENT

Printing date: 02.11.2020

Zirkon BioStar HT Smile

1. Identification of the substance / Preparation and Company:

1.1 Product identifier:

Commercial product name: Zirkon BioStar HT Smile

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

Use of the Substance/Mixture: Medical technology

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: SILADENT Dr. Böhme & Schöps GmbH

 Street / mailbox:
 Im Klei 26

 Country code. / postal code / city:
 D - 38644 Goslar

 Phone:
 0 53 21 / 37 79 - 0

 Fax:
 0 53 21 / 38 96 32

E-mail / Website: info@siladent.de / www.siladent.de
Further information obtainable from: SILADENT Dr. Böhme & Schöps GmbH

1.4 Emergency telephone number

SILADENT Dr. Böhme & Schöps GmbH: +49 (0) 53 21 / 37 79 - 0 (Mon-Fri. 8 a.m. - 4 p.m.)

Not classified

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC)

No. 1272/2008 [CLP]:

Adverse physicochemical, human health

and environmental effects:

To our knowledge, this product does not present any

particular risk, provided it is handled in accordance with good

occupational hygiene and safety practice.

2.2 Label elements

Labelling according to Regulation (EC) No.

1272/2008 [CLP]:

Other hazards

No labelling applicable.

No additional information available

3. Composition/information on ingredients

3.1 Mixtures

2.3

4.3

Chemical nature: Mixture

Hazardous components

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]		
Zirconium dioxide	(CAS-No.) 1314-23-4 (EC-No.) 215-227-2 (REACH-no) 01-2119486976-14	≥ 85	Not classified		
Yttrium oxide	(CAS-No.) 1314-36-9 (EC-No.) 215-233-5 (REACH-no) 01-2119971254-36	≥ 5 – < 10	Not classified		

4. First aid measures

4.1 Description of first aid measures

First-aid measures after inhalation: Remove person to fresh air and keep comfortable for

breathing.

First-aid measures after skin contact: Wash skin with plenty of water.

First-aid measures after eye contact: Rinse eyes with water as a precaution.

First-aid measures after ingestion: Call a poison centre or a doctor if you feel unwell.

4.2 Most important symptoms and effects, both

acute and delayed:

Indication of any immediate medical

attention and special treatment needed:

Treat symptomatically.

No additional information available

5. Firefighting measures

5.1 Extinguishing media

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Suitable extinguishing media: Product itself does not burn. Fire-extinguishing activities

according to surrounding.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products in case

Toxic fumes may be released.

of fire:

5.3 Advice for firefighters

Protection during firefighting: Do not attempt to take action without suitable protective

equipment. Self-contained breathing apparatus. Complete

protective clothing.

Other information: Do not allow run-off from firefighting to enter drains or water

courses.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General measures: Avoid dust formation.

6.1.1. For non-emergency personnel

Emergency procedures: Ventilate spillage area.

6.1.2. For emergency responders

Protective equipment: Do not attempt to take action without suitable protective

equipment. For further information, refer to section 8:

"Exposure controls/personal protection".

6.2 Environmental precautions: Avoid release to the environment.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up: Mechanically recover the product.

Other information: Dispose of materials or solid residues at an authorised site.

6.4 Reference to other sections: For further information, refer to section 13.

7. Handling and storage

7.1 Precautions for safe handling

Precautions for safe handling: Ensure good ventilation of the work station. Wear personal

protective equipment.

Hygiene measures: Do not eat, drink or smoke when using this product. Always

wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a dry place.

7.3 Specific end use(s): No additional information available

8. Exposure controls/personal protection

8.1 Control parameters No additional information available.

8.2 Exposure controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Hand protection:

rialia proteotion.					
Туре	Material	Permeation	Thickness (mm)	Penetration	Standard
Chemically resistant	Butyl rubber,				EN ISO 374
protective gloves	Nitrile rubber				

Eye protection Safety glasses.
Skin and body protection: Protective clothing.

Respiratory protection: Respiratory protective device with a particle filter.

Personal protective equipment symbol(s):

Environmental exposure controls Avoid release to the environment.

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9.	Physical a	and chemical	properties
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9.1 Information on basic physical and chemical properties Physical state: Solid.
Appearance: Disc.
Colour: White.

Colour: White.
Odour: Odourless.
Odour Threshold: No data available

pH: No data available Relative evaporation rate (butylacetate=1): No data available Melting point: No data available Freezing point: Not applicable Boiling point: No data available Flash point: No data available Auto-ignition temperature: No data available Decomposition temperature: No data available Flammability (solid, gas): Non flammable. Vapour pressure: No data available Relative vapour density at 20 °C: No data available Relative density: No data available

Density: > 6 g/cm³

Solubility:
Log Pow:
Viscosity, kinematic:
Viscosity, dynamic:
No data available
No data available
No data available
No data available

Explosive properties: Product is not explosive. Oxidising properties: Non oxidizing.

Oxidising properties:

Explosive limits

Non oxidizing.

Not applicable

9.2 Other information

Combustion class:

10. Stability and reactivity

10.1 Reactivity: The product is non-reactive under normal conditions of use,

1

storage and transport.

10.2 Chemical stability: Stable under normal conditions.

10.3 Possibility of hazardous reactions: No dangerous reactions known under normal conditions of

use.

10.4 Conditions to avoid: None under recommended storage and handling conditions

(see section 7).

10.5 Incompatible materials: No additional information available.

10.6 Hazardous decomposition products: Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity (oral): Not classified Acute toxicity (dermal): Not classified Acute toxicity (inhalation): Not classified Skin corrosion/irritation: Not classified Serious eye damage/irritation: Not classified Respiratory or skin sensitisation: Not classified Germ cell mutagenicity: Not classified Carcinogenicity: Not classified Reproductive toxicity: Not classified STOT - single exposure: Not classified STOT- repeated exposure: Not classified Aspiration hazard: Not classified

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12. Ecological information

12.1 Toxicity

Ecology – general: The product is not considered harmful to aquatic organisms

nor to cause long-term adverse effects in the environment.

Not classified

Hazardous to the aquatic environment,

short-term (acute):

Hazardous to the aquatic environment, long- Not classified

term (chronic):

Persistence and degradability
 Bioaccumulative potential
 Mobility in soil
 Results of PBT and vPvB assessment:
 Other adverse effects
 No additional information available
 No additional information available
 No additional information available
 No additional information available
 No additional information available

13. Disposal considerations

13.1 Waste treatment methods Dispose of contents/container in accordance with licensed

collector's sorting instructions.

14. Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

	ADR	IMDG	IATA	ADN	RID			
14.1	UN number	UN number						
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
14.2	UN proper shipping name							
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
14.3	Transport hazard class(es)							
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
14.4	Packing group							
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
14.5	Environmental hazards							
	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable			
	No supplementary information available							

14.6 Special precautions for user

Overland transport:

Transport by sea:

Air transport:

Inland waterway transport:

Rail transport:

Transport in bulk according to Annex II of

Not applicable

Not applicable

Not applicable

Not applicable

Marpol and the IBC Code:

15. Regulatory information

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

15.1.1. EU-Regulations

14.7

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations:

No additional information available.

15.2 Chemical Safety Assessment No chemical safety assessment has been carried out.

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16. Other information

Abbreviations and acronyms:

ADR European Agreement concerning the International Carriage of Dangerous Goods by

Road

ADN European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways

IATA International Air Transport Association
IMDG International Maritime Dangerous Goods

RID Regulations concerning the International Carriage of Dangerous Goods by Rail

DOT Department of Transport

TDG Transportation of Dangerous Goods

REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC)

No 1907/2006

GHS Globally Harmonized System of Classification, Labelling and Packaging of Chemicals

IARC International Agency for Research on Cancer vPvB Very Persistent and Very Bioaccumulative

PBT Persistent Bioaccumulative Toxic
PNEC Predicted No-Effect Concentration

CAS (Chemical Abstracts Service) number

IBC-Code International Code for the Construction and Equipment of Ships carrying Dangerous

Chemicals in Bulk

ATE Acute Toxicity Estimate

CLP Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

BCF Bioconcentration factor

MARPOL 73/78 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships

ADG Transport of Australian Dangerous Goods

BLV Biological limit value

CAS-No. Chemical Abstract Service number

DMEL Derived Minimal Effect level
DNEL Derived-No Effect Level
EC50 Median effective concentration
EC-No. European Community number

EN European Standard

LC50 Median lethal concentration

LD50 Median lethal dose

LOAEL Lowest Observed Adverse Effect Level
NOAEC No-Observed Adverse Effect Concentration

NOAEL No-Observed Adverse Effect Level
NOEC No-Observed Effect Concentration
OEL Occupational Exposure Limit

SDS Safety Data Sheet WGK Water Hazard Class

Other information: Data of sections 4 to 8, as well as 10 to 12, do partly not refer to the use and the

regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. The delivery specifications are contained in the corresponding product sheet. This data does not constitute a guarantee for the

characteristics of the product(s) as defined by the legal warranty regulations.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.