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Revision: 02.08.2022

### Safety data sheet according to 1907/2006/EC, Article 31

Printing date 02.08.2022

undertaking

Version number 6 (replaces version 5)

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

- · 1.1 Product identifier
  - · Trade name: HeraCeram Zirkonia Liner
- · 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 Manufacture of dental prothesis
- · 1.3 Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany)

Tel.: +49 (0)800 4372522

- · Informing department: E-Mail: msds@kulzer-dental.com
- · 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463

### SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
  - Classification according to Regulation (EC) No 1272/2008

STOT SE 3 H336 May cause drowsiness or dizziness.

- · 2.2 Label elements
  - Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms



- · Signal word Warning
- · Hazard-determining components of labelling:

butane-1.4-diol

· Hazard statements

H336 May cause drowsiness or dizziness.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

- · 2.3 Other hazards -
  - Results of PBT and vPvB assessment
    - · PBT: Not applicable.
    - vPvB: Not applicable.

### SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
  - · Description: -

· Dangerous	components:
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CAS: 110-63-4 EINECS: 203-786-5

butane-1,4-diol

Acute Tox. 4, H302; STOT SE 3, H336

≥20-≤50%

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• Additional information For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- · 4.1 Description of first aid measures
  - After inhalation Supply fresh air; consult doctor in case of symptoms.
  - After skin contact If skin irritation continues, consult a doctor.
  - After eye contact
  - Rinse opened eye for several minutes under running water. Then consult doctor.
  - · After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

Drink copious amounts of water and provide fresh air. Instantly call for 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 No further relevant information available.

## SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
  - Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Use fire fighting measures that suit the environment.

· 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

- 5.3 Advice for firefighters
  - · Protective equipment: No special measures required.
  - Additional information -

#### SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions:

No special measures required.

Prevent material from reaching sewage system, holes and cellars.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).

Dispose of contaminated material as waste according to item 13.

· 6.4 Reference to other sections

No dangerous materials are released.

See Section 7 for information on safe handling See Section 8 for information on personal protection equipment.

See Section 13 for information on disposal.

### SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

No special measures required.

Ensure good ventilation/exhaustion at the workplace.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

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Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
  - - Requirements to be met by storerooms and containers: No special requirements.
    - Information about storage in one common storage facility: Not required.
    - · Further information about storage conditions: None.
- · 7.3 Specific end use(s) No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
  - Components with critical values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Not required.

- · Additional information: The lists that were valid during the compilation were used as basis.
- · 8.2 Exposure controls
  - Appropriate engineering controls No further data; see item 7.
  - Individual protection measures, such as personal protective equipment
    - General protective and hygienic measures

Keep away from foodstuffs, beverages and food.

Wash hands during breaks and at the end of the work.

- · Breathing equipment: Not required.
- · Hand protection

Check protective gloves prior to each use for their proper condition. recommended

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butvl rubber. BR

Nitrile rubber, NBR

- Eye/face protection Safety glasses
- · Body protection: Light weight protective clothing

### SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

General Information

Physical state Fluid White · Colour: Pink

> Brown Blue

· Smell: Characteristic

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(Contd. of page 3) Not determined. Odour threshold: · Melting point/freezing point: Not determined Boiling point or initial boiling point and 230 °C (110-63-4 butane-1,4-diol) boiling range · Flammability Not applicable. · Lower and upper explosion limit Lower: Not determined. Upper: Not determined. · Flash point: 112 °C (110-63-4 butane-1,4-diol) Decomposition temperature: Not determined. SADT Mixture is non-soluble (in water). · Viscosity: Kinematic viscosity Not determined. Not determined. · dynamic: Solubility · Water: Not miscible or difficult to mix · Partition coefficient n-octanol/water (log value) Not determined. Steam pressure: Not determined. · Density and/or relative density Density at 20 °C >0.91631-<1.145 g/cm3 Relative density Not determined. · Vapour density Not determined. · 9.2 Other information No further relevant information available. Appearance: Form: Fluid · Important information on protection of health and environment, and on safety. · Self-inflammability: Product is not selfigniting. · Explosive properties: Product is not explosive. Not determined. · Solvent content: 24.3-<27.3 % Solids content: Change in condition Evaporation rate Not determined. · Information with regard to physical hazard classes · Explosives Void Flammable gases Void Void · Aerosols · Oxidising gases Void Gases under pressure Void · Flammable liquids Void · Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void Pyrophoric solids Void Self-heating substances and mixtures Void · Substances and mixtures, which emit flammable gases in contact with water Void · Oxidising liquids Void · Oxidising solids Void



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· Organic peroxides	Void
· Corrosive to metals	Void
<ul> <li>Desensitised explosives</li> </ul>	Void

### SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
  - · Conditions to be avoided: No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known
- · 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: None
  - · Additional information: -

### **SECTION 11: Toxicological information**

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

• Acute toxicity Based on available data, the classification criteria are not met.

	·L	D/LC5	0 values that are relevant for classification:	
	110-63-4 butane-1,4-diol			
			1,500 mg/kg (rat)	
	Dermal	LD50	>2,000 mg/kg (rat)	
81-13-0 Dexpanthenol				
	Oral	LD50	>10,000 mg/kg (rat) (OECD 401)	

- Dermal | LD50 | >2,000 mg/kg (rat) (EU B.3)

  Skin corrosion/irritation Based on available data, the classification criteria are not met.
  - · 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 May cause drowsiness or dizziness.
  - 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.
- · 11.2 Information on other hazards
  - · Endocrine disrupting properties

None of the ingredients is listed.

### **SECTION 12: Ecological information**

- · 12.1 Toxicity
  - · Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
  - · PBT: Not applicable.
  - · **vPvB:** Not applicable.
- · 12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

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- · 12.7 Other adverse effects
  - Additional ecological information:
    - · General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

### 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.

Disposal must be made according to official regulations.

- · Uncleaned packagings:
  - Recommendation:

Disposal must be made according to official regulations.

Non contaminated packagings can be used for recycling.

14.1 UN number or ID number		
· ADR, IMDG, IATA	Void	
14.2 UN proper shipping name · ADR, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
14.4 Packing group · ADR, IMDG, IATA	Void	
14.5 Environmental hazards: • Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
14.7 Maritime transport in bulk according IMO instruments	<b>y to</b> Not applicable.	
· Transport/Additional information:	-	
· 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.

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· Other regulations, limitations and prohibitive regulations

· Substances of very high concern (SVHC) according to REACH, Article 57

872-50-4 1-methyl-2-pyrrolidone

· 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

H302 Harmful if swallowed.

H336 May cause drowsiness or dizziness.

### Abbreviations and acronyms:

SADT: Self Accelerating Decomposition Temperature

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

INDES: International Maritime Code to 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)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

\* Data compared to the previous version altered.