

Page 1/6

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

Printing date 28.07.2022

Version number 3

Revision: 28.07.2022

	Version number 3	Revision. 20.07.2022
SECTION 1: Identifica undertaking	tion of the substance/m	ixture and of the company/
· 1.1 Product identifier		
• Trade name: HeraCera	am	
Secondary Dentine, Mam powder, Glaze universal	elon Dentine, Value, Opal Incis of the substance or mixture an	Mask, Margin, Gingiva, Correction, sal, Opal Transpa, Stains universal <b>d uses advised against</b>
<ul> <li>Application of the substa</li> </ul>	nce / the mixture Manufacture or	f dental prothesis
• 1.3 Details of the supplier of Manufacturer/Supplier: Kulzer GmbH		T-1 - 10 (0)800 4272522
Leipziger Straße 2, 63450 I		Tel.: +49 (0)800 4372522
• Informing department: ⊢- • 1.4 Emergency telephone nu	Mail: msds@kulzer-dental.com I <b>mber:</b> Emergency CONTACT (2-	4-Hour-Number): +49 (0)6132-84463
SECTION 2: Hazards ide	entification	
<b>2.1 Classification of the sub</b> <b>Classification according</b> The product is not classified	stance or mixture to Regulation (EC) No 1272/200 d, according to the GB CLP regula	8 ation.
<ul> <li>2.2 Label elements         <ul> <li>Labelling according to Re</li> <li>Hazard pictograms Void</li> <li>Signal word Void</li> <li>Hazard statements Void</li> </ul> </li> <li>2.3 Other hazards -         <ul> <li>Results of PBT and vPvB</li> <li>PBT: Not applicable.</li> <li>vPvB: Not applicable.</li> </ul> </li> </ul>	d	id
SECTION 3: Compositio	on/information on ingredie	ents
· 3.2 Mixtures		
· Dangerous components:	Void	
SECTION 4: First aid me	easures	
· 4 1 Description of first aid m	easures	

· 4.1 Description of first aid measures

- General information No special measures required. After skin contact The product is not skin irritating.
- · 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.

• **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

(Contd. on page 2) ĠВ



Page 2/6

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

*Printing date 28.07.2022* 

Version number 3

Revision: 28.07.2022

## Trade name: HeraCeram

## • **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

## SECTION 5: Firefighting measures

#### <sup>•</sup> 5.1 Extinguishing media

- · Suitable extinguishing agents
- CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5 3 Advice for firefighters
- 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:
- Do not allow product to reach sewage system or water bodies.
- Do not allow to enter the ground/soil.
- 6.3 Methods and material for containment and cleaning up: Collect mechanically.
- 6.4 Reference to other sections
- No dangerous materials are released.
- See Section 8 for information on personal protection equipment.

## SECTION 7: Handling and storage

• 7.1 Precautions for safe handling Prevent formation of dust. • Information about protection against explosions and fires: No special measures required.

- 7.2 Conditions for safe storage, including any incompatibilities
   Storage
  - · 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

The usual precautionary measures should be adhered to in handling the chemicals.

(Contd. on page 3)



Page 3/6

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

Printing date 28.07.2022

Version number 3

Revision: 28.07.2022

(Contd. of page 2)

## Trade name: HeraCeram

- · Breathing equipment:
  - Use a mask with particle filter in case of dust generation. Filter P1.
- 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.
  - 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:
  - Butyl rubber, BR
  - Nitrile rubber, NBR
- · Eye/face protection Protective goggles are recommended.
- 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 Solid. · Colour: According to product specification Odourless · Smell: Odour threshold: Not determined. 900 °C >750 °C Melting point/freezing point: · Boiling point or initial boiling point and boiling range Not determined · Flammabilitv Not determined. · Lower and upper explosion limit Not determined. · Lower: Not determined. Upper: Flash point: Not applicable · Decomposition temperature: Not determined. · SADT Not applicable. pН Viscosity: Kinematic viscosity Not applicable. dynamic: Not applicable. · Solubility Water: Insoluble · Partition coefficient n-octanol/water (log Not determined. value) · Steam pressure: Not applicable. · Density and/or relative density Density at 20 °C 2.5 g/cm<sup>3</sup>

(Contd. on page 4)

GB



Page 4/6

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

Printing date 28.07.2022

Version number 3

Revision: 28.07.2022

## Trade name: HeraCeram

	(Contd. of pag
· Relative density	Not determined.
<ul> <li>Settled apparent density at 20 °C</li> </ul>	830 kg/m³
· Vapour density	Not applicable.
<sup>•</sup> 9.2 Other information	No further relevant information available.
· Appearance:	
Form:	Powder
· 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:	
· Solids content:	100.0 %
· Change in condition	
· Evaporation rate	Not applicable.
<ul> <li>Information with regard to physical haza classes</li> </ul>	rd
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
<ul> <li>Oxidising gases</li> </ul>	Void
<sup>.</sup> Gases under pressure	Void
Flammable liquids	Void
• Flammable solids	Void
<ul> <li>Self-reactive substances and mixture</li> </ul>	
<ul> <li>Pyrophoric liquids</li> </ul>	Void
• Pyrophoric solids	Void
<ul> <li>Self-heating substances and mixtures</li> </ul>	
<ul> <li>Substances and mixtures, which emit</li> </ul>	
flammable gases in contact with wate	rr Void
· Oxidising liquids	Void
Oxidising solids	Void
· 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.

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

(Contd. on page 5) GB



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

*Printing date 28.07.2022* 

Version number 3

Revision: 28.07.2022

Page 5/6

## Trade name: HeraCeram

- (Contd. of page 4) Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation 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** Based on available data, the classification criteria are not met.
- **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.

**12.7 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.

Disposal must be made according to official regulations.

- · Uncleaned packagings:
  - · Recommendation: Packaging can be reused or recycled after cleaning.

14.1 UN number or ID number ADR, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
14.4 Packing group ADR, IMDG, IATA	Void	



Page 6/6

GB

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

Printing date 28.07.2022

Version number 3

Revision: 28.07.2022

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## Trade name: HeraCeram

		(Contd. of page 5)
• 14.5 Environmental hazards: • Marine pollutant:	No	
<ul> <li>14.6 Special precautions for user</li> </ul>	Not applicable.	
<ul> <li>14.7 Maritime transport in bulk according IMO instruments</li> </ul>	ng to Not applicable.	
<ul> <li>Transport/Additional information:</li> </ul>	-	
· 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

· Water hazard class: Generally not hazardous for water.

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. 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) Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation 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 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)

CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic

- vPvB: very Persistent and very Bioaccumulative

\* Data compared to the previous version altered.



### Page 1/7

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

Printing date 02.08.2022

Version number 6 (replaces version 5)

Revision: 02.08.2022

undertaking 1.1 Product identifi	or		
	-	toonaque Heral	CeramSun Pasteopad
			uses advised against
No further relevant in			uses auvised against
<ul> <li>Application of the</li> </ul>	he substance / the r	<b>mixture</b> Manufacture of	dental prothesis
• 1.3 Details of the so • Manufacturer/So Kulzer GmbH		/ data sheet	
	2, 63450 Hanau (Ge	• •	Tel.: +49 (0)800 437
	<b>tment:</b> E-Mail: msds <b>phone number:</b> Em		-Hour-Number): +49 (0)6132-8
SECTION 2: Haz	ards identificati	ion	
		tion (EC) No 1272/2008	ł
		( <b>EC) No 1272/2008</b> according to the GB CL	P regulation.
GHS07			
· Signal word	Warning		
butane-1,4-did • <b>Hazard state</b> H336 May cau • <b>Precautionar</b> P261 A P304+P340 IF	<b>ments</b> use drowsiness or diz <b>y statements</b> void breathing dust/fi - INHALED: Remove	zziness. ume/gas/mist/vapours/s person to fresh air and	keep comfortable for breathing
P312 C · <b>2.3 Other hazards</b> -	all a POISON CENT and vPvB assessme licable.	ER/doctor if you feel un	well.
SECTION 3: Col	nposition/inforn	nation on ingredie	nts
3.2 Mixtures Description: -	•		
	nononto.		
· Dangerous com CAS: 110-63-4	butane-1,4-diol		

(Contd. on page 2) GB



#### Page 2/7

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

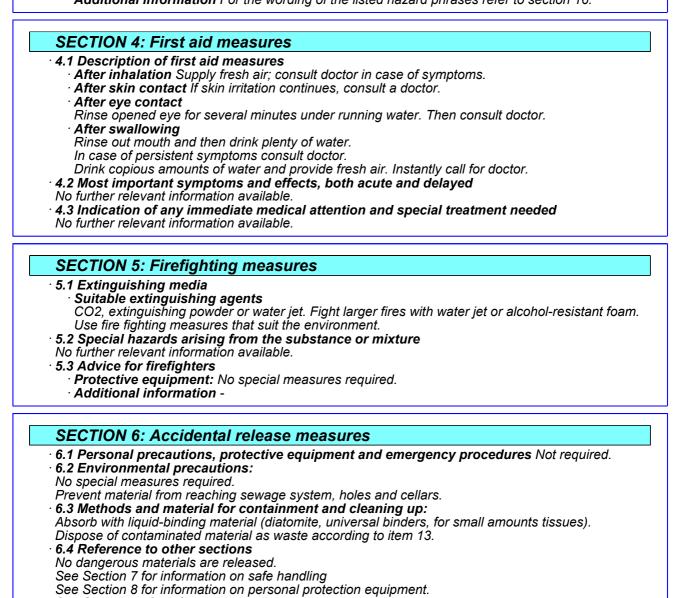
*Printing date 02.08.2022* 

Version number 6 (replaces version 5)

Revision: 02.08.2022

## Trade name: HeraCeram Pasteopaque, HeraCeramSun Pasteopaque

(Contd. of page 1) • Additional information For the wording of the listed hazard phrases refer to section 16.



See Section 13 for information on disposal.

## SECTION 7: Handling and storage

· 7.1 Precautions for safe handling No special measures required.

Information about protection against explosions and fires: No special measures required.

(Contd. on page 3)



Page 3/7

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

Printing date 02.08.2022

Version number 6 (replaces version 5)

Revision: 02.08.2022

#### Trade name: HeraCeram Pasteopaque, HeraCeramSun Pasteopaque (Contd. of page 2) 7.2 Conditions for safe storage, including any incompatibilities · Storage 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 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: Butyl rubber, BR Nitrile rubber, NBR · Eve/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 · Colour: White Pink Brown Blue · Smell: Characteristic Odour threshold: Not determined.

(Contd. on page 4)



Page 4/7

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

Printing date 02.08.2022

Version number 6 (replaces version 5)

Revision: 02.08.2022

## *Trade name:* HeraCeram Pasteopaque, HeraCeramSun Pasteopaque

	(Contd. of page
<ul> <li>Melting point/freezing point:</li> <li>Boiling point or initial boiling point and</li> </ul>	Not determined
boiling range	230 °C (110-63-4 butane-1,4-diol)
Flammability	Not applicable.
Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	134 °C
Ignition temperature:	385 °C
· Decomposition temperature:	Not determined.
SADT	
· pH	Mixture is non-soluble (in water).
Viscosity:	
Kinematic viscosity	Not determined.
· dynamic:	Not determined.
· 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	Hot Gotommod.
· Density at 20 °C	1.9 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.
	urther relevant information available.
· Appearance:	
· Form:	Pasty
Important information on protection of	
health and environment, and on safety.	
Self-inflammability:	Product is not selfigniting.
<ul> <li>Explosive properties:</li> </ul>	Product is not explosive.
	Not determined.
· Solvent content:	
VOC EU	g/l
Solids content:	30.0 %
· Change in condition	No. 6 de ferme in est
· Evaporation rate	Not determined.
Information with regard to physical hazard	
classes	
· Explosives	Void
· Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
<sup>•</sup> Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
	Void
· Pvrophoric solids	
Pyrophoric solids Self-heating substances and mixtures	Void
<ul> <li>Self-heating substances and mixtures</li> </ul>	Void
• Self-heating substances and mixtures • Substances and mixtures, which emit	
<ul> <li>Self-heating substances and mixtures</li> </ul>	Void Void Void



Page 5/7

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

Printing date 02.08.2022

Version number 6 (replaces version 5)

Revision: 02.08.2022

## Trade name: HeraCeram Pasteopaque, HeraCeramSun Pasteopaque

		(Contd. of page 4
· Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	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.

LD/LC50 values that are relevant for classification:

#### 110-63-4 butane-1,4-diol

LD50 1,500 mg/kg (rat) Oral

Dermal LD50 >2,000 mg/kg (rat)

· Skin corrosion/irritation Based on available data, the classification criteria are not met.

- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation 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.

(Contd. on page 6)



Page 6/7

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

Printing date 02.08.2022

Version number 6 (replaces version 5)

Revision: 02.08.2022

## *Trade name:* HeraCeram Pasteopaque, HeraCeramSun Pasteopaque

(Contd. of page 5)

• 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.

## SECTION 14: Transport information

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

No further relevant information available.

(Contd. on page 7)



Page 7/7

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

Printing date 02.08.2022

Version number 6 (replaces version 5)

Revision: 02.08.2022

(Contd. of page 6)

GB

## Trade name: HeraCeram Pasteopaque, HeraCeramSun Pasteopaque

#### · Directive 2012/18/EU

· 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

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) VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic

compounds)

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.



### Page 1/7

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

Printing date 02.08.2022

Version number 4 (replaces version 3)

Revision: 02.08.2022

. 1 1 Product identifier		
• 1.1 Product identifier	m NP-Primer NICHT	Final nur für RMA
1.2 Relevant identified uses o No further relevant information a	f the substance or mixture ar	
	<b>ce</b> / <b>the mixture</b> Manufacture of	of dental prothesis
• <b>1.3 Details of the supplier of t</b> • <b>Manufacturer/Supplier:</b> Kulzer GmbH Leipziger Straße 2, 63450 Ha	he safety data sheet	Tel.: +49 (0)800 4372
Informing department: E-M 1.4 Emergency telephone num	lail: msds@kulzer-dental.com nber: Emergency CONTACT (2	24-Hour-Number): +49 (0)6132-844
SECTION 2: Hazards ide	ntification	
Eye Irrit. 2 H319 Causes set 2.2 Label elements Labelling according to Rec		
GHS07 • Signal word Warning • Hazard statements H319 Causes serious eye	e irritation.	
<ul> <li>Signal word Warning</li> <li>Hazard statements</li> <li>H319 Causes serious eye</li> <li>Precautionary statement</li> <li>P280 Wear protect</li> </ul>	n <b>ts</b> ive gloves / eye protection. n persists: Get medical advice/	attention.
Signal word Warning Hazard statements H319 Causes serious eye Precautionary statement P280 Wear protect P337+P313 If eye irritatio 2.3 Other hazards - Results of PBT and vPvB a PBT: Not applicable. vPvB: Not applicable. SECTION 3: Composition	nts ive gloves / eye protection. n persists: Get medical advice/ nssessment	
Signal word Warning Hazard statements H319 Causes serious eye Precautionary statement P280 Wear protect P337+P313 If eye irritatio 2.3 Other hazards - Results of PBT and vPvB a PBT: Not applicable. vPvB: Not applicable.	nts ive gloves / eye protection. n persists: Get medical advice/ nssessment	

(Contd. on page 2)



Page 2/7

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

Printing date 02.08.2022

Version number 4 (replaces version 3)

Revision: 02.08.2022

## Trade name: HeraCeram NP-Primer NICHT Final nur für RMA

(Contd. of page 1)

## SECTION 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
- Instantly wash with water and soap and rinse thoroughly.
- 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.
- 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.
   5.2 Special hazards arising from the substance or mixture
  - No further relevant information available.
  - 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 Avoid contact with eyes and skin.

Wear protective clothing.

- 6.2 Environmental precautions: 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.

## SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace. • Information about protection against explosions and fires: No special measures required.
- 7.2 Conditions for safe storage, including any incompatibilities
   Storage
  - · 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.

(Contd. on page 3)



Page 3/7

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

Printing date 02.08.2022

Version number 4 (replaces version 3)

Revision: 02.08.2022

## Trade name: HeraCeram NP-Primer NICHT Final nur für RMA

(Contd. of page 2)

8.1 Control parameters Components with critical values that req	wire monitoring at the workplace.
The product does not contain any relevant	quantities of materials with critical values that have
be monitored at the workplace.	······································
Not required.	
	vere valid during the compilation were used as basis
8.2 Exposure controls	
Appropriate engineering controls No furt	
Individual protection measures, such as	
<ul> <li>General protective and hygienic meas Wash hands during breaks and at the er</li> </ul>	sures ad of the work
Avoid contact with the eyes and skin.	iu oi liie work.
• Breathing equipment: Not necessary if	froom is well-ventilated
Hand protection	יוטטווו וא שלוו-יכוונוומנכע.
Check protective gloves prior to each us	e for their proper condition
recommended	
· Material of gloves	
The selection of the suitable gloves	s does not only depend on the material, but also
	rom manufacturer to manufacturer. As the product i
preparation of several substances	s, the resistance of the glove material can not
calculated in advance and has theref	fore to be checked prior to the application.
Penetration time of glove material	
	b be found out by the manufacturer of the protect
gloves and has to be observed.	
gloves and has to be observed. • <b>For the permanent contact of a ma</b>	b be found out by the manufacturer of the protect aximum of 15 minutes gloves made of the follow
gloves and has to be observed. • For the permanent contact of a ma materials are suitable:	
gloves and has to be observed. • <b>For the permanent contact of a ma</b> <b>materials are suitable:</b> Butyl rubber, BR	
gloves and has to be observed. • <b>For the permanent contact of a ma</b> <b>materials are suitable:</b> Butyl rubber, BR Nitrile rubber, NBR	aximum of 15 minutes gloves made of the follow
gloves and has to be observed. • For the permanent contact of a ma materials are suitable: Butyl rubber, BR Nitrile rubber, NBR • Eye/face protection Tightly sealed safe	aximum of 15 minutes gloves made of the follow
gloves and has to be observed. • <b>For the permanent contact of a ma</b> <b>materials are suitable:</b> Butyl rubber, BR Nitrile rubber, NBR	aximum of 15 minutes gloves made of the follow
gloves and has to be observed. • For the permanent contact of a ma materials are suitable: Butyl rubber, BR Nitrile rubber, NBR • Eye/face protection Tightly sealed safe	aximum of 15 minutes gloves made of the follow ety glasses. e clothing
gloves and has to be observed. • For the permanent contact of a ma materials are suitable: Butyl rubber, BR Nitrile rubber, NBR • Eye/face protection Tightly sealed safe • Body protection: Light weight protective SECTION 9: Physical and chemical	aximum of 15 minutes gloves made of the follow ety glasses. e clothing properties
gloves and has to be observed. For the permanent contact of a ma materials are suitable: Butyl rubber, BR Nitrile rubber, NBR Eye/face protection Tightly sealed safe Body protection: Light weight protective SECTION 9: Physical and chemical points 9.1 Information on basic physical and chemical points General Information	aximum of 15 minutes gloves made of the follow ety glasses. e clothing properties
gloves and has to be observed. • For the permanent contact of a ma materials are suitable: Butyl rubber, BR Nitrile rubber, NBR • Eye/face protection Tightly sealed safe • Body protection: Light weight protective SECTION 9: Physical and chemical points 9.1 Information on basic physical and chemical points • Body protection on basic physical physi	aximum of 15 minutes gloves made of the follow ety glasses. e clothing properties
gloves and has to be observed. For the permanent contact of a ma materials are suitable: Butyl rubber, BR Nitrile rubber, NBR Eye/face protection Tightly sealed safe Body protection: Light weight protective SECTION 9: Physical and chemical p 9.1 Information on basic physical and chemical General Information Physical state Colour:	aximum of 15 minutes gloves made of the follows ety glasses. e clothing properties nical properties Fluid Orange
gloves and has to be observed. For the permanent contact of a ma materials are suitable: Butyl rubber, BR Nitrile rubber, NBR Eye/face protection Tightly sealed safe Body protection: Light weight protective SECTION 9: Physical and chemical p 9.1 Information on basic physical and chemical General Information Physical state	aximum of 15 minutes gloves made of the follows ety glasses. e clothing properties nical properties Fluid
gloves and has to be observed. For the permanent contact of a ma materials are suitable: Butyl rubber, BR Nitrile rubber, NBR Eye/face protection Tightly sealed safe Body protection: Light weight protective SECTION 9: Physical and chemical p 9.1 Information on basic physical and chemical General Information Physical state Colour: Smell: Odour threshold:	eximum of 15 minutes gloves made of the follows ety glasses. e clothing properties nical properties Fluid Orange Characteristic Not determined.
gloves and has to be observed. For the permanent contact of a ma- materials are suitable: Butyl rubber, BR Nitrile rubber, NBR Eye/face protection Tightly sealed safe Body protection: Light weight protective SECTION 9: Physical and chemical protection 9.1 Information on basic physical and chemical protection General Information Physical state Colour: Smell: Odour threshold: Melting point/freezing point:	aximum of 15 minutes gloves made of the follows ety glasses. e clothing properties nical properties Fluid Orange Characteristic Not determined. Not determined
gloves and has to be observed. For the permanent contact of a ma materials are suitable: Butyl rubber, BR Nitrile rubber, NBR Eye/face protection Tightly sealed safe Body protection: Light weight protective SECTION 9: Physical and chemical p 9.1 Information on basic physical and chemical General Information Physical state Colour: Smell: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point ar	eximum of 15 minutes gloves made of the follows ety glasses. e clothing properties nical properties Fluid Orange Characteristic Not determined. Not determined Mot determined
gloves and has to be observed. For the permanent contact of a ma- materials are suitable: Butyl rubber, BR Nitrile rubber, NBR Eye/face protection Tightly sealed safe Body protection: Light weight protective SECTION 9: Physical and chemical protection 9.1 Information on basic physical and chemical General Information Physical state Colour: Smell: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point ar boiling range	eximum of 15 minutes gloves made of the follows ety glasses. e clothing properties nical properties Fluid Orange Characteristic Not determined. Not determined 192 °C (584-03-2 butane-1,2-diol)
gloves and has to be observed. For the permanent contact of a ma- materials are suitable: Butyl rubber, BR Nitrile rubber, NBR Eye/face protection Tightly sealed safe Body protection: Light weight protective SECTION 9: Physical and chemical protection 9.1 Information on basic physical and chemical General Information Physical state Colour: Smell: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point ar boiling range Flammability	eximum of 15 minutes gloves made of the follows ety glasses. e clothing properties nical properties Fluid Orange Characteristic Not determined. Not determined Mot determined
gloves and has to be observed. For the permanent contact of a ma- materials are suitable: Butyl rubber, BR Nitrile rubber, NBR Eye/face protection Tightly sealed safe Body protection: Light weight protective SECTION 9: Physical and chemical protection SECTION 9: Physical and chemical protective 9.1 Information on basic physical and chemical General Information Physical state Colour: Smell: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point ar boiling range Flammability Lower and upper explosion limit	aximum of 15 minutes gloves made of the follows ety glasses. e clothing properties nical properties Fluid Orange Characteristic Not determined. Not determined 192 °C (584-03-2 butane-1,2-diol) Not applicable.
gloves and has to be observed. For the permanent contact of a ma materials are suitable: Butyl rubber, BR Nitrile rubber, NBR Eye/face protection Tightly sealed safe Body protection: Light weight protective SECTION 9: Physical and chemical [ 9.1 Information on basic physical and chemical General Information Physical state Colour: Smell: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point ar boiling range Flammability Lower and upper explosion limit Lower:	eximum of 15 minutes gloves made of the follows ety glasses. e clothing properties nical properties Fluid Orange Characteristic Not determined. Not determined 192 °C (584-03-2 butane-1,2-diol) Not applicable. 2.4 Vol % (584-03-2 butane-1,2-diol)
gloves and has to be observed. For the permanent contact of a ma materials are suitable: Butyl rubber, BR Nitrile rubber, NBR Eye/face protection Tightly sealed safe Body protection: Light weight protective SECTION 9: Physical and chemical [ 9.1 Information on basic physical and chemical General Information Physical state Colour: Smell: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point ar boiling range Flammability Lower and upper explosion limit Lower: Upper:	eximum of 15 minutes gloves made of the follows ety glasses. e clothing properties nical properties Fluid Orange Characteristic Not determined. Not determined 192 °C (584-03-2 butane-1,2-diol) Not applicable. 2.4 Vol % (584-03-2 butane-1,2-diol) 13.5 Vol % (584-03-2 butane-1,2-diol)
gloves and has to be observed. For the permanent contact of a ma materials are suitable: Butyl rubber, BR Nitrile rubber, NBR Eye/face protection Tightly sealed safe Body protection: Light weight protective SECTION 9: Physical and chemical [ 9.1 Information on basic physical and chemical General Information Physical state Colour: Smell: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point ar boiling range Flammability Lower and upper explosion limit Lower: Upper: Flash point:	eximum of 15 minutes gloves made of the follows ety glasses. e clothing properties nical properties Fluid Orange Characteristic Not determined. Not determined 192 °C (584-03-2 butane-1,2-diol) Not applicable. 2.4 Vol % (584-03-2 butane-1,2-diol) 13.5 Vol % (584-03-2 butane-1,2-diol) 93 °C (584-03-2 butane-1,2-diol)
gloves and has to be observed. For the permanent contact of a ma materials are suitable: Butyl rubber, BR Nitrile rubber, NBR Eye/face protection Tightly sealed safe Body protection: Light weight protective SECTION 9: Physical and chemical [ 9.1 Information on basic physical and chemical General Information Physical state Colour: Smell: Odour threshold: Melting point/freezing point: Boiling point or initial boiling point ar boiling range Flammability Lower and upper explosion limit Lower: Upper:	eximum of 15 minutes gloves made of the follows ety glasses. e clothing properties nical properties Fluid Orange Characteristic Not determined. Not determined 192 °C (584-03-2 butane-1,2-diol) Not applicable. 2.4 Vol % (584-03-2 butane-1,2-diol) 13.5 Vol % (584-03-2 butane-1,2-diol)



Page 4/7

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

Printing date 02.08.2022

Version number 4 (replaces version 3)

Revision: 02.08.2022

## Trade name: HeraCeram NP-Primer NICHT Final nur für RMA

	(Contd. of pag
SADT	
· pH at 20 °C	6-7
· Viscosity:	
Kinematic viscosity	Not determined.
· dynamic:	Not determined.
· Solubility	
· Water:	Fully miscible
Partition coefficient n-octanol/water (I	
value)	Not determined.
Steam pressure:	Not determined.
· Density and/or relative density	
· Density at 20 °C	1.9 g/cm <sup>3</sup>
· Relative density	Not determined.
· Vapour density	Not determined.
· ·	
	No further relevant information available.
· Appearance:	
· Form:	Pasty
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.
<ul> <li>Change in condition</li> </ul>	
· Evaporation rate	Not determined.
<ul> <li>Information with regard to physical hazar</li> </ul>	rd
classes	
Explosives	Void
· Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
· Self-reactive substances and mixtures	
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
• Self-heating substances and mixtures	
Self-fielding substances and mixtures	VOID
Substances and mixtures, which emit	
flammable gases in contact with water	
· Oxidising liquids	Void
Oxidising solids	Void
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.

(Contd. on page 5) GB



Page 5/7

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

Printing date 02.08.2022

Version number 4 (replaces version 3)

Revision: 02.08.2022

(Contd. of page 4)

## Trade name: HeraCeram NP-Primer NICHT Final nur für RMA

- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: None
  - Additional 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.

· LD/LC50 values that are relevant for classification:

584-03-2 butane-1,2-diol				
Oral	1 D50	>2 000 ma/ka (r		

>2,000 mg/kg (rat) (OECD 420) Inhalative LC50/4 h 370 mg/l (rat)

· Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation 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 Based on available data, the classification criteria are not met. 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:

584-03-2 butane-1,2-diol

EC50/48h 500 mg/l (daphnia)

LC50/96h >10,000 mg/l (fish)

- **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

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects

Additional ecological information:

General notes: Avoid transfer into the environment.

(Contd. on page 6)



Page 6/7

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

Printing date 02.08.2022

Version number 4 (replaces version 3)

Revision: 02.08.2022

## Trade name: HeraCeram NP-Primer NICHT Final nur für RMA

(Contd. of page 5)

## 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.

SECTION 14: Transport informa	tion	
• 14.1 UN number or ID number • ADR, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void	
<ul> <li>14.3 Transport hazard class(es)</li> </ul>		
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.	
<ul> <li>14.7 Maritime transport in bulk accord IMO instruments</li> </ul>	ing to 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

No further relevant information available.

· 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

H319 Causes serious eye irritation.

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

IATA: International Air Transport Association

(Contd. on page 7)

<sup>-</sup> GB



Page 7/7

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

Printing date 02.08.2022

Version number 4 (replaces version 3)

Revision: 02.08.2022

(Contd. of page 6)

## Trade name: HeraCeram NP-Primer NICHT Final nur für RMA

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 D50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 • \* **Data compared to the previous version altered.** 



Page 1/6

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

Printing date 02.08.2022

Version number 3

Revision: 02.08.2022

· 1.1 Product id		liquid
	e: HeraCeram modeling	j iiquid
1.2 Relevant id	.iquid ML / MLS <b>dentified uses of the substance</b> /ant information available.	or mixture and uses advised against
<ul> <li>Application</li> </ul>	n of the substance / the mixture	Auxiliary for manufacture of dental prothesis
<ul> <li>Manufactur Kulzer Gmb</li> </ul>		heet Tel.: +49 (0)800 4372
Informing a	department: E-Mail: msds@kulze	
SECTION 2:	Hazards identification	
· Classificati	ion of the substance or mixture ion according to Regulation (EC t is not classified, according to the	C) No 1272/2008
Hazard µ Signal w Hazard s 2.3 Other haza Results of I PBT: No	ccording to Regulation (EC) No pictograms Void vord Void statements Void	<b>1272/2008</b> Void
	Composition/information	on ingredients
3.2 Mixtures Description	1: -	
· Dangerous · Additional	components: Void information For the wording of th	ne listed hazard phrases refer to section 16.
SECTION 4	First aid measures	
• 4.1 Description • General inf • After skin o • After sye co • After swallo Rinse out m In case of po • 4.2 Most impo No further relev • 4.3 Indication	n of first aid measures formation No special measures re- contact The product is not skin irr ontact Rinse opened eye for seve owing houth and then drink plenty of wate ersistent symptoms consult docto rtant symptoms and effects, bo yant information available.	itating. eral minutes under running water. er. r.
		(Contd. on pag



Page 2/6

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

Printing date 02.08.2022

Version number 3

Revision: 02.08.2022

## Trade name: HeraCeram modeling liquid

(Contd. of page 1)

### SECTION 5: Firefighting measures

### <sup>·</sup> 5.1 Extinguishing media

- · Suitable extinguishing agents
- CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. **5.2 Special hazards arising from the substance or mixture**
- No further relevant information available.
- 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.
- 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).
- · 6.4 Reference to other sections
- No dangerous materials are released.
- See Section 8 for information on personal protection equipment.

## SECTION 7: Handling and storage

• 7.1 Precautions for safe handling No special measures required. Information about protection against explosions and fires: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

#### Storage

- 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.

<sup>•</sup> 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
  - The usual precautionary measures should be adhered to in handling the chemicals.
  - · Breathing equipment: Not required.
  - · Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 3)



Page 3/6

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

*Printing date 02.08.2022* 

Version number 3

Revision: 02.08.2022

(Contd. of page 2)

## Trade name: HeraCeram modeling liquid

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:

Butyl rubber, BR

Nitrile rubber, NBR

- · Eye/face protection not absolutely neccessary
- · Body protection: Light weight protective clothing

<ul> <li>Flammability</li> <li>Lower and upper explosion limit         <ul> <li>Lower:</li> <li>Upper:</li> <li>Flash point:</li> <li>Decomposition temperature:</li> <li>Not determined.</li> </ul> </li> <li>Fash point:</li> <li>Not applicable</li> <li>Decomposition temperature:</li> <li>Not determined.</li> <li>SADT         <ul> <li>pH</li> <li>Viscosity:</li> <li>Kinematic viscosity</li> <li>dynamic:</li> <li>Solubility</li> <li>Water:</li> <li>Fully miscible</li> </ul> </li> <li>Partition coefficient n-octanol/water (log value)</li> <li>Steam pressure at 20 °C:</li> <li>23 hPa</li> </ul>	SECTION 9: Physical and chemical pl	roperties
<ul> <li>Physical state</li> <li>Physical state</li> <li>Colour:</li> <li>Colour:</li> <li>Smell:</li> <li>Odour threshold:</li> <li>Melting point/freezing point:</li> <li>Not determined.</li> <li>Melting point or initial boiling point and boiling range</li> <li>Flammability</li> <li>Flammability</li> <li>Flammability</li> <li>Lower and upper explosion limit</li> <li>Lower:</li> <li>Upper:</li> <li>Flash point:</li> <li>PH</li> <li>SADT</li> <li>pH</li> <li>Viscosity:</li> <li>Kinematic viscosity</li> <li>Mot determined.</li> <li>Viscosity:</li> <li>Kinematic viscosity</li> <li>Water:</li> <li>Solubility</li> <li>Water:</li> <li>Partition coefficient n-octanol/water (log value)</li> <li>Steam pressure at 20 °C:</li> </ul>	• 9.1 Information on basic physical and chemic	cal properties
Colour:       Colourless         Smell:       Odour threshold:         • Odour threshold:       Not determined.         • Melting point/freezing point:       Not determined.         • Boiling point or initial boiling point and boiling range       100 °C (7732-18-5 water, distilled, conductive or of similar purity)         • Flammability       Not applicable.         • Lower and upper explosion limit       Not determined.         • Lower:       Not determined.         • Upper:       Not determined.         • Flash point:       Not determined.         • PH       Not determined.         • SADT       Not determined.         • by H       Not determined.         • Viscosity:       Not determined.         • Water:       Not determined.         • Water:       Fully miscible         • Partition coefficient n-octanol/water (log value)       Not determined.         • Steam pressure at 20 °C:       23 hPa	General Information	
Colour:       Colourless         Smell:       Odour threshold:         • Odour threshold:       Not determined.         • Melting point/freezing point:       Not determined.         • Boiling point or initial boiling point and boiling range       100 °C (7732-18-5 water, distilled, conductive or of similar purity)         • Flammability       Not applicable.         • Lower and upper explosion limit       Not determined.         • Lower:       Not determined.         • Upper:       Not determined.         • Flash point:       Not determined.         • PH       Not determined.         • SADT       Not determined.         • by H       Not determined.         • Viscosity:       Not determined.         • Water:       Not determined.         • Water:       Fully miscible         • Partition coefficient n-octanol/water (log value)       Not determined.         • Steam pressure at 20 °C:       23 hPa	· Physical state	Fluid
• Odour threshold:       Not determined.         • Melting point/freezing point:       Not determined.         • Boiling point or initial boiling point and boiling range       100 °C (7732-18-5 water, distilled, conductive or of similar purity)         • Flammability       Not applicable.         • Lower and upper explosion limit       Not determined.         • Lower:       Not determined.         • Upper:       Not determined.         • Joper:       Not determined.         • Vipper:       Not determined.         • Joper:       Not determined.         • Vipper:       Not determined.         • Joper:       Not determined.         • Vipper:       Not determined.         • Joper:       Not determined.         • SADT       Not determined.         • Solubility       Not determined.         • Water:       Fully miscible         • Water:       Fully miscible         • Partition coefficient n-octanol/water (log value)       Not determined.         • Steam pressure at 20 °C:       23 hPa		Colourless
• Melting point/freezing point:       Not determined         • Boiling point or initial boiling point and boiling range       100 °C (7732-18-5 water, distilled, conductive or of similar purity)         • Flammability       Not applicable.         • Lower and upper explosion limit       Not determined.         • Lower:       Not determined.         • Upper:       Not determined.         • Flash point:       Not applicable         • Decomposition temperature:       Not determined.         • SADT       Not determined.         • pH       Not determined.         • Viscosity:       Not determined.         • Water:       Not determined.         • Water:       Fully miscible         • Water:       Fully miscible         • Partition coefficient n-octanol/water (log value)       Not determined.         • Steam pressure at 20 °C:       23 hPa	· Smell:	Odourless
<ul> <li>Boiling point or initial boiling point and boiling range</li> <li>Flammability</li> <li>Flammability</li> <li>Lower and upper explosion limit         <ul> <li>Lower:</li> <li>Upper:</li> <li>Flash point:</li> <li>Decomposition temperature:</li> <li>Not determined.</li> </ul> </li> <li>SADT         <ul> <li>PH</li> <li>Viscosity:</li> <li>Kinematic viscosity</li> <li>Viscosity:</li> <li>Kinematic viscosity</li> <li>Vater:</li> <li>Solubility</li> <li>Water:</li> <li>Fully miscible</li> <li>Partition coefficient n-octanol/water (log value)</li> <li>Steam pressure at 20 °C:</li> <li>23 hPa</li> </ul> </li> </ul>	· Odour threshold:	Not determined.
<ul> <li>Boiling point or initial boiling point and boiling range</li> <li>Flammability</li> <li>Flammability</li> <li>Lower and upper explosion limit         <ul> <li>Lower:</li> <li>Upper:</li> <li>Flash point:</li> <li>Decomposition temperature:</li> <li>Not determined.</li> <li>SADT             <ul> <li>pH</li> <li>Viscosity:</li> <li>Kinematic viscosity</li> <li>dynamic:</li> <li>Solubility</li> <li>Water:</li> <li>Fully miscible</li> <li>Partition coefficient n-octanol/water (log value)</li> <li>Steam pressure at 20 °C:</li> <li>23 hPa</li> <li>20 °C (7732-18-5 water, distilled, conductive or of similar purity)</li> <li>Not of seplicable.</li> <li>Not applicable</li> <li>Not determined.</li> <li>Not determined.</li></ul></li></ul></li></ul>	• Melting point/freezing point:	Not determined
• Flammability       or of similar purity)         • Lower and upper explosion limit       Not applicable.         • Lower:       Not determined.         • Upper:       Not determined.         • Upper:       Not determined.         • Decomposition temperature:       Not determined.         • Decomposition temperature:       Not determined.         • SADT       PH         • pH       Not determined.         • Viscosity:       Not determined.         • Kinematic viscosity       Not determined.         • Solubility       Not determined.         • Water:       Fully miscible         Partition coefficient n-octanol/water (log value)       Not determined.         • Steam pressure at 20 °C:       23 hPa	Boiling point or initial boiling point and	
• Flammability       or of similar purity)         • Lower and upper explosion limit       Not applicable.         • Lower:       Not determined.         • Upper:       Not determined.         • Upper:       Not determined.         • Flash point:       Not applicable         • Decomposition temperature:       Not determined.         • SADT       PH         • pH       Not determined.         • Viscosity:       Not determined.         • Kinematic viscosity       Not determined.         • Solubility       Not determined.         • Water:       Fully miscible         • Partition coefficient n-octanol/water (log value)       Not determined.         • Steam pressure at 20 °C:       23 hPa		100 °C (7732-18-5 water, distilled, conductivity
Flammability       Not applicable.         Lower and upper explosion limit       Not determined.         Lower:       Not determined.         Upper:       Not applicable         Decomposition temperature:       Not determined.         Decomposition temperature:       Not determined.         SADT       Not determined.         PH       Not determined.         Viscosity:       Not determined.         Kinematic viscosity       Not determined.         Solubility       Not determined.         Water:       Fully miscible         Partition coefficient n-octanol/water (log value)       Not determined.         Steam pressure at 20 °C:       23 hPa	5 5	
Lower and upper explosion limit       Not determined.         Lower:       Not determined.         Upper:       Not determined.         Flash point:       Not applicable         Decomposition temperature:       Not determined.         SADT       Not determined.         • pH       Not determined.         • Viscosity:       Not determined.         • Kinematic viscosity       Not determined.         • dynamic:       Not determined.         • Solubility       Vater:         • Water:       Fully miscible         Partition coefficient n-octanol/water (log value)       Not determined.         • Steam pressure at 20 °C:       23 hPa	· Flammability	
Lower:       Not determined.         Upper:       Not determined.         Flash point:       Not applicable         Decomposition temperature:       Not determined.         SADT       Not determined.         • pH       Not determined.         • Viscosity:       Not determined.         • Kinematic viscosity       Not determined.         • dynamic:       Not determined.         • Solubility       Vater:         • Water:       Fully miscible         Partition coefficient n-octanol/water (log value)       Not determined.         • Steam pressure at 20 °C:       23 hPa		
Flash point:       Not applicable         Decomposition temperature:       Not determined.         SADT       Not determined.         pH       Not determined.         Viscosity:       Not determined.         · Kinematic viscosity       Not determined.         · dynamic:       Not determined.         · Solubility       Vater:         · Water:       Fully miscible         · Partition coefficient n-octanol/water (log value)       Not determined.         · Steam pressure at 20 °C:       23 hPa		Not determined.
Flash point:       Not applicable         Decomposition temperature:       Not determined.         SADT       Not determined.         pH       Not determined.         Viscosity:       Not determined.         Kinematic viscosity       Not determined.         dynamic:       Not determined.         Solubility       Fully miscible         Partition coefficient n-octanol/water (log value)       Not determined.         Steam pressure at 20 °C:       23 hPa	· Upper:	Not determined.
Decomposition temperature:       Not determined.         SADT       Not determined.         pH       Not determined.         Viscosity:       Not determined.         Kinematic viscosity       Not determined.         dynamic:       Not determined.         Solubility       Fully miscible         Partition coefficient n-octanol/water (log value)       Not determined.         Steam pressure at 20 °C:       23 hPa		Not applicable
SADT       pH       Not determined.         Viscosity:       Not determined.         Kinematic viscosity       Not determined.         dynamic:       Not determined.         Solubility       Fully miscible         Partition coefficient n-octanol/water (log value)       Not determined.         Steam pressure at 20 °C:       23 hPa		
<ul> <li>Viscosity:         <ul> <li>Kinematic viscosity</li> <li>dynamic:</li> <li>Not determined.</li> </ul> </li> <li>Solubility         <ul> <li>Water:</li> <li>Fully miscible</li> </ul> </li> <li>Partition coefficient n-octanol/water (log value)</li> <li>Not determined.</li> </ul> <li>Steam pressure at 20 °C:</li>		
· Kinematic viscosity       Not determined.         · dynamic:       Not determined.         · Solubility       Fully miscible         · Water:       Fully miscible         · Partition coefficient n-octanol/water (log value)       Not determined.         · Steam pressure at 20 °C:       23 hPa	· pH	Not determined.
<ul> <li>Kinematic viscosity</li> <li>dynamic:</li> <li>Solubility</li> <li>Water:</li> <li>Partition coefficient n-octanol/water (log value)</li> <li>Steam pressure at 20 °C:</li> <li>Not determined.</li> <li>Not determined.</li> </ul>	· Viscosity:	
<ul> <li>Solubility</li> <li>Water:</li> <li>Partition coefficient n-octanol/water (log value)</li> <li>Not determined.</li> <li>Steam pressure at 20 °C:</li> <li>23 hPa</li> </ul>	· Kinematic viscosity	Not determined.
<ul> <li>Solubility</li> <li>Water:</li> <li>Partition coefficient n-octanol/water (log value)</li> <li>Not determined.</li> <li>Steam pressure at 20 °C:</li> <li>23 hPa</li> </ul>		Not determined.
Partition coefficient n-octanol/water (log value) Not determined. Steam pressure at 20 °C: 23 hPa		
value) Not determined. • Steam pressure at 20 °C: 23 hPa	· Water:	Fully miscible
Steam pressure at 20 °C: 23 hPa	<ul> <li>Partition coefficient n-octanol/water (lo</li> </ul>	)g
	value)	Not determined.
Develte evel/eveletive develte		23 hPa
· Density and/or relative density	Density and/or relative density	
· Density at 20 °C 1 g/cm <sup>3</sup>	· Density at 20 °C	1 g/cm³
• <b>Relative density</b> Not determined.	· Relative density	Not determined.
· Vapour density Not determined.	· Vapour density	Not determined.
<b>9.2 Other information</b> No further relevant information available.	• 9.2 Other information	o further relevant information available.
· Appearance:		
Fluid		Fluid

(Contd. on page 4)



Page 4/6

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

Printing date 02.08.2022

Version number 3

Revision: 02.08.2022

## Trade name: HeraCeram modeling liquid

		(Contd. of pa
· 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:		
· VOC EU	g/l	
· Change in condition	-	
· Evaporation rate	Not determined.	
· Information with regard to physical hazard		
classes		
Explosives	Void	
· Flammable gases	Void	
Aerosols	Void	
• 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	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	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.
- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation 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** Based on available data, the classification criteria are not met.

(Contd. on page 5)



Page 5/6

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

Printing date 02.08.2022

Version number 3

Revision: 02.08.2022

## Trade name: HeraCeram modeling liquid

(Contd. of page 4) • 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. **12.7 Other adverse effects** No further relevant information available.

## SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

Recommendation Smaller quantities can be disposed with household garbage.

Uncleaned packagings:

**Recommendation**: Disposal must be made according to official regulations.

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



Page 6/6

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

Printing date 02.08.2022

Version number 3

Revision: 02.08.2022

(Contd. of page 5)

## Trade name: HeraCeram modeling liquid

• 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

· Water hazard class: Generally not hazardous for water.

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.

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 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)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

\* Data compared to the previous version altered.



Page 1/7

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

Printing date 02.08.2022

Version number 3

Revision: 02.08.2022

· 1.1 Product	1g	
		Universal SLUL HereCore
· Trade nai	<i>ne:</i> HeraCeram Stain Liquid Pastopaque Liquid POL	Universal SLU, Heracera
• <b>1.2 Relevant</b> No further rel	identified uses of the substance or mixtu	re and uses advised against
· Applicati	on of the substance / the mixture Manufact	ture of dental prothesis
• <b>Manufact</b> Kulzer Gn	f the supplier of the safety data sheet urer/Supplier: hbH Straße 2, 63450 Hanau (Germany)	Tel.: +49 (0)800 43725
		( )
· 1.4 Emergen	department: E-Mail: msds@kulzer-dental.c cy telephone number: Emergency CONTA	om CT (24-Hour-Number): +49 (0)6132-844(
SECTION	2: Hazards identification	
	ation of the substance or mixture	
	ation according to Regulation (EC) No 127	2/2008
	r. 4 H302 Harmful if swallowed.	
STOT SE	3 H336 May cause drowsiness or dizziness	S.
The produ	according to Regulation (EC) No 1272/200 oct is classified and labelled according to the o d pictograms	<b>98</b> GB CLP regulation.
· Signal	word Warning	
butane Hazaro H302 F H336 N Precau P261 P301+ P304+ 2.3 Other ha Results o	<i>d-determining components of labelling:</i> -1,4-diol <i>d statements</i> Harmful if swallowed. May cause drowsiness or dizziness. <b>Itionary statements</b> Avoid breathing dust/fume/gas/mist/vap P312 IF SWALLOWED: Call a POISON CEN P340 IF INHALED: Remove person to fresh a zards - f PBT and vPvB assessment Not applicable.	ITER/doctor if you feel unwell.



Page 2/7

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

Printing date 02.08.2022

Version number 3

Revision: 02.08.2022

# Trade name: HeraCeram Stain Liquid Universal SLU, HeraCeram Pastopaque Liquid POL

(Contd. of page 1)

3.2 Mixtures	
· Dangerous components:	
CAS: 110-63-4 EINECS: 203-786-5	Acute Tox. 4, H302; STOT SE 3, H336 >9
SECTION 4: First aid measures	
4.1 Description of first aid measures • After inhalation Supply fresh air; consu • After skin contact	It doctor in case of symptoms.
Instantly wash with water and soap and If skin irritation continues, consult a doct	rinse thoroughly. or.
• After eye contact Rinse opened eye for several minutes u • After swallowing	-
Rinse out mouth and then drink plenty of In case of persistent symptoms consult of Seek medical treatment.	
<b>4.2 Most important symptoms and effect</b> No further relevant information available. <b>4.3 Indication of any immediate medical</b>	-
No further relevant information available.	
SECTION 5: Firefighting measures	<u> </u>
<b>SECTION 5: Firefighting measure</b> 5.1 Extinguishing media	S
5.1 Extinguishing media Suitable extinguishing agents	
5.1 Extinguishing media Suitable extinguishing agents CO2, extinguishing powder or water jet.	Fight larger fires with water jet or alcohol-resistant foa
5.1 Extinguishing media Suitable extinguishing agents CO2, extinguishing powder or water jet. Use fire fighting measures that suit the e	Fight larger fires with water jet or alcohol-resistant foa nvironment.
5.1 Extinguishing media Suitable extinguishing agents CO2, extinguishing powder or water jet. Use fire fighting measures that suit the e 5.2 Special hazards arising from the sub-	Fight larger fires with water jet or alcohol-resistant foa nvironment.
5.1 Extinguishing media Suitable extinguishing agents CO2, extinguishing powder or water jet. Use fire fighting measures that suit the e 5.2 Special hazards arising from the sub Carbon monoxide (CO)	Fight larger fires with water jet or alcohol-resistant foa nvironment.
5.1 Extinguishing media Suitable extinguishing agents CO2, extinguishing powder or water jet. Use fire fighting measures that suit the e 5.2 Special hazards arising from the sub Carbon monoxide (CO) Carbon dioxide (CO2)	Fight larger fires with water jet or alcohol-resistant foa nvironment.
5.1 Extinguishing media Suitable extinguishing agents CO2, extinguishing powder or water jet. Use fire fighting measures that suit the e 5.2 Special hazards arising from the sub Carbon monoxide (CO) Carbon dioxide (CO2) 5.3 Advice for firefighters	Fight larger fires with water jet or alcohol-resistant foa nvironment.
5.1 Extinguishing media Suitable extinguishing agents CO2, extinguishing powder or water jet. Use fire fighting measures that suit the e 5.2 Special hazards arising from the sub Carbon monoxide (CO) Carbon dioxide (CO2) 5.3 Advice for firefighters Protective equipment:	Fight larger fires with water jet or alcohol-resistant foa nvironment. <b>stance or mixture</b>
5.1 Extinguishing media Suitable extinguishing agents CO2, extinguishing powder or water jet. Use fire fighting measures that suit the e 5.2 Special hazards arising from the sub Carbon monoxide (CO) Carbon dioxide (CO2) 5.3 Advice for firefighters Protective equipment: Do not inhale explosion gases or combu	Fight larger fires with water jet or alcohol-resistant foa nvironment. <b>stance or mixture</b> stion gases.
5.1 Extinguishing media Suitable extinguishing agents CO2, extinguishing powder or water jet. Use fire fighting measures that suit the e 5.2 Special hazards arising from the sub- Carbon monoxide (CO) Carbon dioxide (CO2) 5.3 Advice for firefighters Protective equipment: Do not inhale explosion gases or combu Wear self-contained breathing apparatus	Fight larger fires with water jet or alcohol-resistant foa nvironment. <b>stance or mixture</b> stion gases.
5.1 Extinguishing media Suitable extinguishing agents CO2, extinguishing powder or water jet. Use fire fighting measures that suit the e 5.2 Special hazards arising from the sub Carbon monoxide (CO) Carbon dioxide (CO2) 5.3 Advice for firefighters Protective equipment: Do not inhale explosion gases or combu	Fight larger fires with water jet or alcohol-resistant foa nvironment. <b>stance or mixture</b> stion gases.
5.1 Extinguishing media Suitable extinguishing agents CO2, extinguishing powder or water jet. Use fire fighting measures that suit the e 5.2 Special hazards arising from the sub- Carbon monoxide (CO) Carbon dioxide (CO2) 5.3 Advice for firefighters Protective equipment: Do not inhale explosion gases or combu Wear self-contained breathing apparatus Additional information -	Fight larger fires with water jet or alcohol-resistant foa nvironment. <b>stance or mixture</b> stion gases. S.
5.1 Extinguishing media Suitable extinguishing agents CO2, extinguishing powder or water jet. Use fire fighting measures that suit the e 5.2 Special hazards arising from the sub- Carbon monoxide (CO) Carbon dioxide (CO2) 5.3 Advice for firefighters Protective equipment: Do not inhale explosion gases or combu Wear self-contained breathing apparatus Additional information - SECTION 6: Accidental release m	Fight larger fires with water jet or alcohol-resistant foa nvironment. <b>stance or mixture</b> stion gases. s. <b>easures</b>
5.1 Extinguishing media Suitable extinguishing agents CO2, extinguishing powder or water jet. Use fire fighting measures that suit the e 5.2 Special hazards arising from the sub- Carbon monoxide (CO) Carbon dioxide (CO2) 5.3 Advice for firefighters Protective equipment: Do not inhale explosion gases or combu Wear self-contained breathing apparatus Additional information - SECTION 6: Accidental release m 6.1 Personal precautions, protective equipment. Keep unprotective equipment. Keep unprotective Ensure adequate ventilation	Fight larger fires with water jet or alcohol-resistant foa environment. <b>stance or mixture</b> stion gases. s. <b>easures</b> ipment and emergency procedures
5.1 Extinguishing media Suitable extinguishing agents CO2, extinguishing powder or water jet. Use fire fighting measures that suit the e 5.2 Special hazards arising from the sub- Carbon monoxide (CO) Carbon dioxide (CO2) 5.3 Advice for firefighters Protective equipment: Do not inhale explosion gases or combu Wear self-contained breathing apparatus Additional information - SECTION 6: Accidental release m 6.1 Personal precautions, protective equipment. Keep unprotective Ensure adequate ventilation Do not breathe vapor / mist / gas.	Fight larger fires with water jet or alcohol-resistant foa environment. stance or mixture stion gases. s. easures ipment and emergency procedures ted persons away.
5.1 Extinguishing media Suitable extinguishing agents CO2, extinguishing powder or water jet. Use fire fighting measures that suit the e 5.2 Special hazards arising from the sub- Carbon monoxide (CO) Carbon dioxide (CO2) 5.3 Advice for firefighters Protective equipment: Do not inhale explosion gases or combu Wear self-contained breathing apparatus Additional information - SECTION 6: Accidental release m 6.1 Personal precautions, protective equi Wear protective equipment. Keep unprotect Ensure adequate ventilation Do not breathe vapor / mist / gas. 6.2 Environmental precautions: Do not al	Fight larger fires with water jet or alcohol-resistant foa nvironment. <b>stance or mixture</b> stion gases. s. <b>easures</b> <b>ipment and emergency procedures</b> ted persons away. low product to reach sewage system or water bodies.
<ul> <li>5.1 Extinguishing media <ul> <li>Suitable extinguishing agents</li> <li>CO2, extinguishing powder or water jet.</li> <li>Use fire fighting measures that suit the e</li> </ul> </li> <li>5.2 Special hazards arising from the subsect of the</li></ul>	Fight larger fires with water jet or alcohol-resistant foa nvironment. stance or mixture stion gases. s. easures ipment and emergency procedures ted persons away. low product to reach sewage system or water bodies. nt and cleaning up:
<ul> <li>5.1 Extinguishing media <ul> <li>Suitable extinguishing agents</li> <li>CO2, extinguishing powder or water jet.</li> <li>Use fire fighting measures that suit the e</li> </ul> </li> <li>5.2 Special hazards arising from the subsect of the</li></ul>	Fight larger fires with water jet or alcohol-resistant foa environment. stance or mixture stion gases. s. easures ipment and emergency procedures ted persons away. low product to reach sewage system or water bodies. int and cleaning up: te, universal binders, for small amounts tissues).
<ul> <li>5.1 Extinguishing media <ul> <li>Suitable extinguishing agents</li> <li>CO2, extinguishing powder or water jet.</li> <li>Use fire fighting measures that suit the e</li> </ul> </li> <li>5.2 Special hazards arising from the subserve that on the subserve text of the subservet text of text</li></ul>	Fight larger fires with water jet or alcohol-resistant foa environment. stance or mixture stion gases. s. easures ipment and emergency procedures ted persons away. low product to reach sewage system or water bodies. int and cleaning up: te, universal binders, for small amounts tissues). according to item 13.
5.1 Extinguishing media Suitable extinguishing agents CO2, extinguishing powder or water jet. Use fire fighting measures that suit the e 5.2 Special hazards arising from the sub- Carbon monoxide (CO) Carbon dioxide (CO2) 5.3 Advice for firefighters Protective equipment: Do not inhale explosion gases or combu Wear self-contained breathing apparatus Additional information - SECTION 6: Accidental release m 6.1 Personal precautions, protective equipment. Keep unprotect Ensure adequate ventilation Do not breathe vapor / mist / gas. 6.2 Environmental precautions: Do not al 6.3 Methods and material for containmer Absorb with liquid-binding material (diatomit	Fight larger fires with water jet or alcohol-resistant foa environment. stance or mixture stion gases. s. easures ipment and emergency procedures ted persons away. low product to reach sewage system or water bodies. int and cleaning up: te, universal binders, for small amounts tissues). according to item 13.

(Contd. on page 3) <sub>GB</sub>



Page 3/7

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

Printing date 02.08.2022

Version number 3

Revision: 02.08.2022

## Trade name: HeraCeram Stain Liquid Universal SLU, HeraCeram Pastopague Liquid POL

· 6.4 Reference to other sections

(Contd. of page 2)

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

Wear protective equipment. Keep unprotected persons away.

Avoid contact with eyes and skin.

Ensure good ventilation/exhaustion at the workplace.

Do not breathe vapor / mist / gas.

Information about protection against explosions and fires: No special measures required.

#### · 7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and containers:

- Dry place, storage temperature <25 ° C
- 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: filter: ABEK
  - · Hand protection
  - Synthetic gloves
  - Plastic gloves

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.

(Contd. on page 4) GB



Page 4/7

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

Printing date 02.08.2022

Version number 3

Revision: 02.08.2022

# Trade name: HeraCeram Stain Liquid Universal SLU, HeraCeram Pastopaque Liquid POL

(Contd. of page 3) · For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable: Butyl 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 Fluid Physical state · Colour: Colourless · Smell: Odourless Odour threshold: Not determined. • Melting point/freezing point: 20 °C · Boiling point or initial boiling point and boiling range 230 °C (110-63-4 butane-1,4-diol) · 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) Ignition temperature: 370 °C (110-63-4 butane-1,4-diol) Decomposition temperature: Not determined. SADT pH at 20 °C 7-8 · Viscosity: Not determined. Kinematic viscosity Not determined. dynamic: · Solubility Fully miscible Water: · Partition coefficient n-octanol/water (log Not determined. value) · Steam pressure: Not determined. Density and/or relative density Density at 20 °C 1.02 g/cm3 Not determined. Relative density · Vapour density Not determined. · 9.2 Other information No further relevant information available. Appearance: Fluid Form: 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: Solids content: 0% (Contd. on page 5) GB



Page 5/7

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

Printing date 02.08.2022

Version number 3

Revision: 02.08.2022

# *Trade name:* HeraCeram Stain Liquid Universal SLU, HeraCeram Pastopaque Liquid POL

Change in condition		
· Evaporation rate	Not determined.	
Information with regard to physical hazard		
classes		
· Explosives	Void	
· Flammable gases	Void	
Aerosols	Void	
<ul> <li>Oxidising gases</li> </ul>	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	
<ul> <li>Substances and mixtures, which emit</li> </ul>		
flammable gases in contact with water	Void	
· Oxidising liquids	Void	
• Oxidising solids	Void	
· 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: Strong oxidant, acid chloride, acid anhydride, reductant
- 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 Harmful if swallowed. • LD/LC50 values that are relevant for classification: 110-63-4 butane-1,4-diol

Oral LD50 1,500 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat)

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation No data 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.

(Contd. on page 6)



Page 6/7

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

Printing date 02.08.2022

Version number 3

Revision: 02.08.2022

# Trade name: HeraCeram Stain Liquid Universal SLU, HeraCeram Pastopaque Liquid POL

(Contd. of page 5)

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.

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

· General notes: Avoid transfer into the environment.

### SECTION 13: Disposal considerations

#### · 13.1 Waste treatment methods

· Recommendation

Disposal must be made according to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
  - · Recommendation:
  - Disposal must be made according to official regulations.
  - Non contaminated packagings can be used for recycling.

• Recommended cleaning agent: Water, if necessary with cleaning agent.

· 14.1 UN number or ID number		
· ADR, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void	
· 14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA Class	Void	



Page 7/7

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

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Revision: 02.08.2022

# Trade name: HeraCeram Stain Liquid Universal SLU, HeraCeram Pastopaque Liquid POL

		(Contd. of page
· 14.4 Packing group · ADR, IMDG, IATA	Void	
14.5 Environmental hazards: Marine pollutant:	No	
<sup>.</sup> 14.6 Special precautions for user	Not applicable.	
<ul> <li>14.7 Maritime transport in bulk accordin IMO instruments</li> </ul>	n <b>g 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

No further relevant information available.

· 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: RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations RID: Reglement international concernant le transport des marchandises dangereuses par chemin de ler (Regulations Concerning the International Transport of Dangerous Goods by Rail) IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organisation ICAO-TI: Technical Instructions by the "International Civil Aviation Organisation" (ICAO) SADT: Self Accelerating Decomposition Temperature ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Cards by Road) 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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic 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. GB