

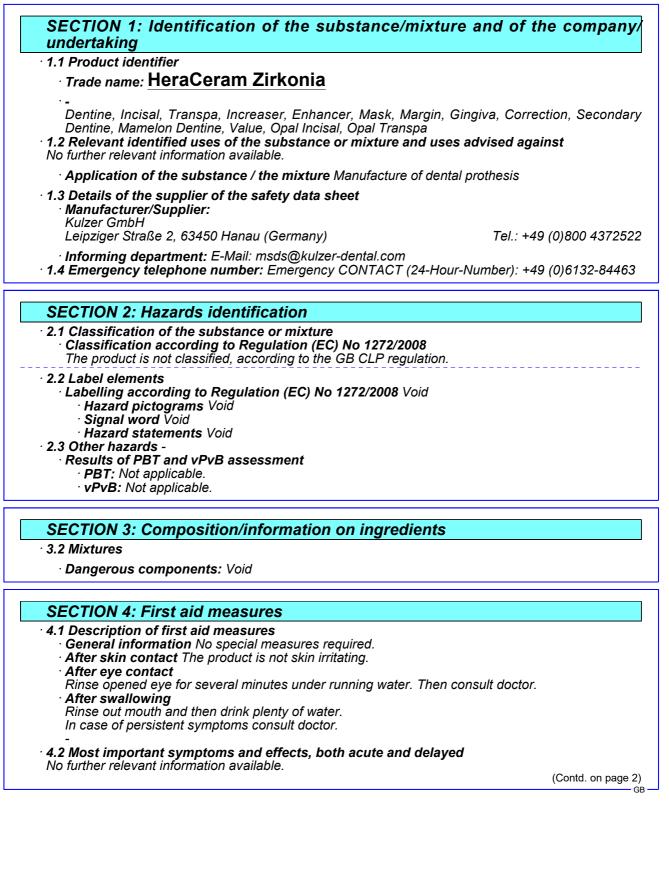
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# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 28.07.2022

Version number 3 (replaces version 1)

Revision: 28.07.2022





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

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### Trade name: HeraCeram Zirkonia

### • **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
  - · 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.

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### Trade name: HeraCeram Zirkonia

#### · 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. 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 · Smell: Odourless Odour threshold: Not determined. 900 °C Melting point/freezing point: >750 °C · Boiling point or initial boiling point and boiling range Not determined Flammability 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. Not applicable. · dynamic: · Solubility Water: Insoluble · Partition coefficient n-octanol/water (log value) Not determined. · Steam pressure: Not applicable. Density and/or relative density Density at 20 °C 2.5 g/cm<sup>3</sup> Not determined. · Relative density Settled apparent density at 20 °C 830 kg/m<sup>3</sup>

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## Trade name: HeraCeram Zirkonia

· Vapour density	(Contd. of pag Not applicable.
· · ·	No further relevant information available.
· 9.2 Other mormation · Appearance:	No further relevant information available.
· Form:	Powder
· Important information on protection	
health and environment, and on safety.	01
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>Explosives</li> <li>Flammable gases</li> <li>Aerosols</li> <li>Oxidising gases</li> <li>Gases under pressure</li> <li>Flammable liquids</li> <li>Flammable solids</li> </ul>	Void Void Void Void Void Void Void
<ul> <li>Self-reactive substances and mixture</li> </ul>	s Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
Self-heating substances and mixtures Substances and mixtures, which emit	s Void t
flammable gases in contact with wate	
· Oxidising liquids	Void
• Oxidising solids	Void
<ul> <li>Organic peroxides</li> </ul>	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.

• 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.

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## Trade name: HeraCeram Zirkonia

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- 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	
14.5 Environmental hazards: Marine pollutant:	No	



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Not applicable.

Not applicable.

Void

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## Trade name: HeraCeram Zirkonia

14.6 Special precautions for user

· 14.7 Maritime transport in bulk according to

IMO instruments

· Transport/Additional information:

**UN "Model Regulation":** 

#### 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)

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) PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

\* Data compared to the previous version altered.



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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		

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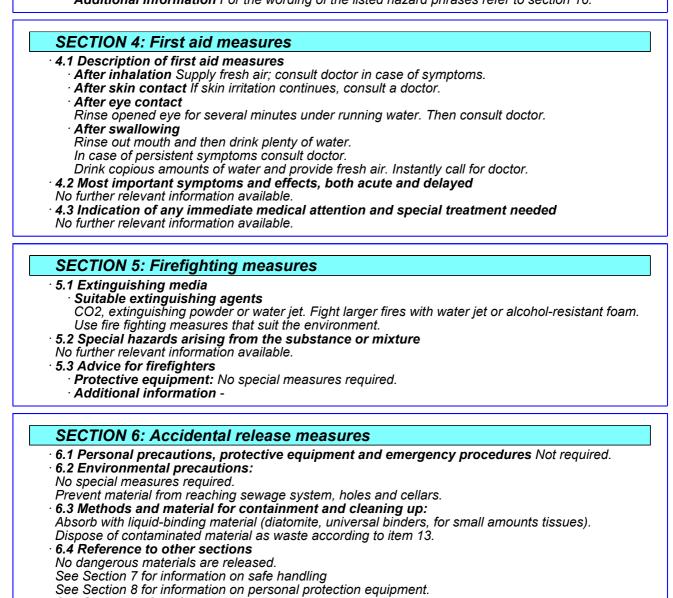
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## Trade name: HeraCeram Pasteopaque, HeraCeramSun Pasteopaque

(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.

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#### 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.

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## *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



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### 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.

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

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• 12.7 Other adverse effects • Additional ecological information:

General notes:

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

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Recommendation

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

Disposal must be made according to official regulations.

· Uncleaned packagings:

· Recommendation:

Disposal must be made according to official regulations. Non contaminated packagings can be used for recycling.

## 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.

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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.



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· 1.1 Product id	g dentifier	
		Universal SIII HereCore
· Trade nam	Pe: HeraCeram Stain Liquid Pastopaque Liquid POL	Universal SLU, HeraCera
• <b>1.2 Relevant i</b> No further rele	identified uses of the substance or mixtu	ure and uses advised against
· Applicatio	n of the substance / the mixture Manufac	cture of dental prothesis
• <b>Manufactu</b> Kulzer Gml	the supplier of the safety data sheet irer/Supplier: bH Straße 2, 63450 Hanau (Germany)	Tel.: +49 (0)800 43725
	department: E-Mail: msds@kulzer-dental.	
· 1.4 Emergend	cy telephone number: Emergency CONTA	ACT (24-Hour-Number): +49 (0)6132-8446
	: Hazards identification	
	tion of the substance or mixture	70/2000
	tion according to Regulation (EC) No 127	(2/2008
	4 H302 Harmful if swallowed.	
STOT SE 3	3 H336 May cause drowsiness or dizzines	S.
The produc	according to Regulation (EC) No 1272/20 of is classified and labelled according to the pictograms	0 <b>8</b> GB CLP regulation.
· Signal v	word Warning	
butane- Hazard H302 H H336 M Precaut P261 P301+P P304+P • 2.3 Other haz Results of	<b>statements</b> armful if swallowed. lay cause drowsiness or dizziness. <b>tionary statements</b> Avoid breathing dust/fume/gas/mist/va 2312 IF SWALLOWED: Call a POISON CEI 2340 IF INHALED: Remove person to fresh	NTER/doctor if you feel unwell.



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

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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	
<ul> <li>After inhalation Supply fresh air; consu</li> </ul>	It doctor in case of symptoms.
· After skin contact	rings therewally
Instantly wash with water and soap and If skin irritation continues, consult a doct	or
· After eye contact	
Rinse opened eye for several minutes u	nder running water. Then consult doctor.
After swallowing	-
Rinse out mouth and then drink plenty or	
In case of persistent symptoms consult of	doctor.
Seek medical treatment.	a both coute and delayed
<b>4.2 Most important symptoms and effect</b> No further relevant information available.	s, both acute and delayed
4.3 Indication of any immediate medical	attention and special treatment needed
No further relevant information available.	attention and special deatment needed
SECTION 5: Firefighting measure	s
	S
5.1 Extinguishing media	S
5.1 Extinguishing media Suitable extinguishing agents	
5.1 Extinguishing media Suitable extinguishing agents	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 5.2 Special hazards arising from the sub-	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 5.2 Special hazards arising from the sub Carbon monoxide (CO)	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 5.2 Special hazards arising from the sub Carbon monoxide (CO) Carbon dioxide (CO2)	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 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
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>
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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 environment. <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 equi	Fight larger fires with water jet or alcohol-resistant foa environment. stance or mixture stion gases. s. <b>easures</b> ipment and emergency procedures
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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	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.
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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).
<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 for monoxide (CO) <ul> <li>Carbon monoxide (CO2)</li> </ul> </li> <li>5.3 Advice for firefighters <ul> <li>Protective equipment:</li> <li>Do not inhale explosion gases or combution wear self-contained breathing apparatus</li> <li>Additional information -</li> </ul> </li> <li>SECTION 6: Accidental release m</li> <li>6.1 Personal precautions, protective equipment. Keep unprotect Ensure adequate ventilation</li> <li>Do not breathe vapor / mist / gas.</li> <li>6.2 Environmental precautions: Do not al</li> <li>6.3 Methods and material for containmer Absorb with liquid-binding material (diatomit Dispose of contaminated material as waste</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. llow product to reach sewage system or water bodies. int and cleaning up: te, universal binders, for small amounts tissues). according to item 13.
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· 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.

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(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



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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.

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• 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.

SECTION 14: Transport informat	ion	
14.1 UN number or ID number ADR, ADN, IMDG, IATA	Void	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	Void	
· 14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA Class	Void	
		(Contd. on page 7



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		(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



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. 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 statemen 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	

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### 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.

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be monitored at the workplace. Not required. • Additional information: The lists that were	e monitoring at the workplace:			
The product does not contain any relevant que be monitored at the workplace. Not required. • Additional information: The lists that were				
be monitored at the workplace. Not required. • Additional information: The lists that were	The product does not contain any relevant quantities of materials with critical values that have			
Not required. Additional information: The lists that were				
Additional information: The lists that were				
	e valid during the compilation were used as basis			
2 Exposure controls				
· Appropriate engineering controls No further				
Individual protection measures, such as pe				
General protective and hygienic measure Wash hands during breaks and at the end o	es of the work			
Avoid contact with the eyes and skin.	DI INE WOIK.			
• Breathing equipment: Not necessary if roo	om is well-ventilated			
· Hand protection				
Check protective gloves prior to each use for	or their proper condition			
recommended				
· Material of gloves				
The selection of the suitable gloves d	loes not only depend on the material, but also			
further marks of quality and varies from	n manufacturer to manufacturer. As the product i			
	the resistance of the glove material can not			
calculated in advance and has therefore	to be checked prior to the application.			
Penetration time of glove material				
	e found out by the manufacturer of the protect			
gloves and has to be observed.				
	num of 15 minutes gloves made of the followi			
<b>materials are suitable:</b> Butyl rubber, BR				
Nitrile rubber, NBR				
• Eye/face protection Tightly sealed safety g	alasses.			
Body protection: Light weight protective ci				
ECTION 9: Physical and chemical pro	operties			
1 Information on basic physical and chemica	al properties			
· General Information				
	Fluid			
· Physical state				
· Physical state · Colour:	Orange			
· Physical state · Colour: · Smell:	Characteristic			
<ul> <li>Physical state</li> <li>Colour:</li> <li>Smell:</li> <li>Odour threshold:</li> </ul>	Characteristic Not determined.			
<ul> <li>Physical state</li> <li>Colour:</li> <li>Smell:</li> <li>Odour threshold:</li> <li>Melting point/freezing point:</li> </ul>	Characteristic			
<ul> <li>Physical state</li> <li>Colour:</li> <li>Smell:</li> <li>Odour threshold:</li> <li>Melting point/freezing point:</li> <li>Boiling point or initial boiling point and</li> </ul>	Characteristic Not determined. Not determined			
<ul> <li>Physical state</li> <li>Colour:</li> <li>Smell:</li> <li>Odour threshold:</li> <li>Melting point/freezing point:</li> <li>Boiling point or initial boiling point and boiling range</li> </ul>	Characteristic Not determined. Not determined 192 °C (584-03-2 butane-1,2-diol)			
<ul> <li>Physical state</li> <li>Colour:</li> <li>Smell:</li> <li>Odour threshold:</li> <li>Melting point/freezing point:</li> <li>Boiling point or initial boiling point and boiling range</li> <li>Flammability</li> </ul>	Characteristic Not determined. Not determined			
<ul> <li>Physical state</li> <li>Colour:</li> <li>Smell:         <ul> <li>Odour threshold:</li> <li>Melting point/freezing point:</li> <li>Boiling point or initial boiling point and boiling range</li> <li>Flammability</li> <li>Lower and upper explosion limit</li> </ul> </li> </ul>	Characteristic Not determined. Not determined 192 °C (584-03-2 butane-1,2-diol) Not applicable.			
<ul> <li>Physical state</li> <li>Colour:</li> <li>Smell:</li> <li>Odour threshold:</li> <li>Melting point/freezing point:</li> <li>Boiling point or initial boiling point and boiling range</li> <li>Flammability</li> <li>Lower and upper explosion limit</li> <li>Lower:</li> </ul>	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)			
<ul> <li>Physical state</li> <li>Colour:</li> <li>Smell: <ul> <li>Odour threshold:</li> <li>Melting point/freezing point:</li> <li>Boiling point or initial boiling point and boiling range</li> <li>Flammability</li> <li>Lower and upper explosion limit <ul> <li>Lower:</li> <li>Upper:</li> </ul> </li> </ul></li></ul>	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)			
<ul> <li>Physical state</li> <li>Colour:</li> <li>Smell:</li> <li>Odour threshold:</li> <li>Melting point/freezing point:</li> <li>Boiling point or initial boiling point and boiling range</li> <li>Flammability</li> <li>Lower and upper explosion limit</li> <li>Lower:</li> </ul>	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)			
<ul> <li>Physical state</li> <li>Colour:</li> <li>Smell: <ul> <li>Odour threshold:</li> <li>Melting point/freezing point:</li> <li>Boiling point or initial boiling point and boiling range</li> <li>Flammability</li> <li>Lower and upper explosion limit <ul> <li>Lower:</li> <li>Upper:</li> </ul> </li> </ul></li></ul>	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)			



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	(Contd. of pag
SADT	
· pH at 20 °C	6-7
· Viscosity:	
Kinematic viscosity	Not determined.
· dynamic:	Not determined.
· Solubility	
· Water:	Fully miscible
<ul> <li>Partition coefficient n-octanol/water (I</li> </ul>	
value)	Not determined.
· Steam pressure:	Not determined.
<ul> <li>Density and/or relative density</li> </ul>	
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	
Substances and mixtures, which emit	v olu
flammable gases in contact with water	r void Void
· Oxidising liquids	
• 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.

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

SECTION 11: Toxicol	logical information
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· 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	LD50	>2,000 mg/kg (rat) (OECD 420)	
	1 0 - 0 / / /		

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.

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#### 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

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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.**