

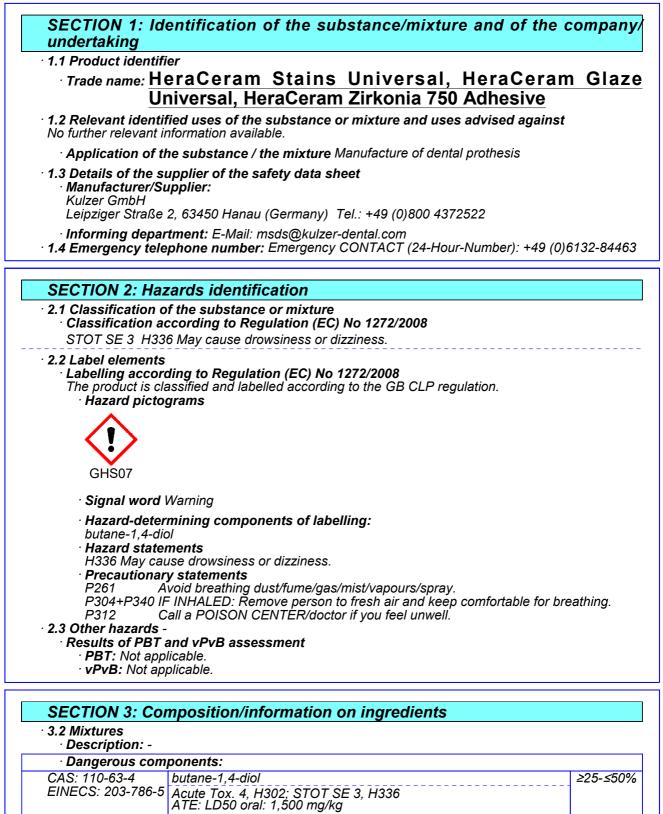
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(Contd. of page 1) • Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

General information

- Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- 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. If symptoms persist, consult doctor. After swallowing
- Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

- Seek medical treatment.
- · 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 Water spray jet Alcohol-resistant foam Fire-extinguishing powder Carbon dioxide Use fire fighting measures that suit the environment. • 5.2 Special hazards arising from the substance or mixture Carbon monoxide (CO) Carbon dioxide (CO2)

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

- 5.3 Advice for firefighters
 - **Protective equipment:** Wear self-contained breathing apparatus.
 - Additional information -

SECTION 6: Accidental release measures

- · 6.1 Personal precautions, protective equipment and emergency procedures Use breathing protection against the effects of fumes/dust/aerosol. Ensure adequate ventilation
- **6.2 Environmental precautions:** Do not allow product to reach sewage system or water bodies.
- 6.3 Methods and material for containment and cleaning up:
- Send for recovery or disposal in suitable containers.
- 6.4 Reference to other sections
- See Section 7 for information on safe handling See Section 8 for information on personal protection equipment.
- See Section 13 for information on disposal.

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(Contd. of page 2) 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. 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 Individual protection measures, such as personal protective equipment General protective and hygienic measures Do not eat, drink or smoke while working. Be sure to clean skin thoroughly after work and before breaks. Keep away from foodstuffs, beverages and food. Wash hands during breaks and at the end of the work. Breathing equipment: Use breathing protection with high concentrations. 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. 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 (Contd. on page 4)



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· Body protection: Light weight protective clothing

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9.1 Information on basic physical and ch	emical properties
· General Information	
· Physical state	Fluid
· Colour:	White
	Brown
	Pink
	Blue
· Smell:	Odourless
 Odour threshold: 	Not determined.
 Melting point/freezing point: 	16 °C
 Boiling point or initial boiling point 	
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:	Not applicable
Auto-ignition temperature:	370 °C (110-63-4 butane-1,4-diol)
Decomposition temperature:	Not determined.
SADT	
∙рН	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
Kinematic viscosity	
· dynamic:	Not determined.
Solubility	Not missible or difficult to mix
· Water:	Not miscible or difficult to mix
· Partition coefficient n-octanol/wate	
value)	Not determined.
Steam pressure:	Not determined.
Vapour pressure:	
Density and/or relative density	Not determined
· Density · Relative density	Not determined Not determined.
· Vapour density	Not determined.
9.2 Other information	No further relevant information available.
· Appearance:	
Form:	Pasty
Important information on protection	
health and environment, and on safety	/. Des des tris es tractficienti
Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.
Channe in condition	Not determined.
· Change in condition	Not data minad
· Evaporation rate	Not determined.



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· 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	volu	
flammable gases in contact with water	Void	
	Void	
· Oxidising liquids	Void Void	
· Oxidising solids		
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: Strong oxidant, acid chloride, acid anhydride, reductant 10.6 Hazardous decomposition products: None

 - Additional information: -

		on on hazard classes as defined in Regulation (EC) No 1272/2008 city Based on available data, the classification criteria are not met.	
• L	D/LC5	0 values that are relevant for classification:	
110-63-4 butane-1,4-diol			
Oral	LD50	1,500 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rat)	
· Seri · Res · Geri	ous ey pirator m cell i cinogel	sion/irritation Based on available data, the classification criteria are not met. e damage/irritation Based on available data, the classification criteria are not met. y or skin sensitisation Based on available data, the classification criteria are not met nutagenicity Based on available data, the classification criteria are not met. nicity Based on available data, the classification criteria are not met. ive toxicity Based on available data, the classification criteria are not met.	

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• 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: Eco	ological information
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- 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** 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.

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	
14.6 Special precautions for user	Not applicable.	



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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

Not applicable.

Void

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.

* Data compared to the previous version altered.

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) 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