

Printing date 26.06.2017

Version number 3

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SECTION 1: Identification of the substance/mixture	and of the company
undertaking	
· 1.1 Product identifier	
 Trade name: Technovit 8100 hardener 2 	
• 1.2 Relevant identified uses of the substance or mixture and uses No further relevant information available.	advised against
 Application of the substance / the mixture Resin for histological e 	examinations
 1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Kulzer GmbH Leipziger Straße 2, 63450 Hanau (Germany) Tel.: +49 (0)6181 9689-2570 (Wehrheim) 	
Informing department: email: technik.wehrheim@kulzer-dental.cor 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-	n Number): +49 (0)6132-84463
SECTION 2: Hazards identification	
• 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 The product is not classified according to the CLP regulation.	
 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Void Hazard pictograms Void Signal word Void Hazard statements Void Additional information: Safety data sheet available on request. 2.3 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 	
SECTION 3: Composition/information on ingredients	
• 3.2 Chemical characterisation: Mixtures • Description: -	
- · Dangerous components:	
CAS: 4913-13-7 N,N,3,5-tetramethylaniline EINECS: 225-539-0 STOT RE 2, H373; Acute Tox. 4, H302; Acute Tox 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STO	0-5% 4, H312; Acute Tox. DT SE 3, H335
• Additional information For the wording of the listed hazard phrase.	s refer to section 16.
SECTION 4: First aid measures	
• 4.1 Description of first aid measures • After skin contact Instantly wash with water and seen and rinse therewebly	
Instantly wash with water and soap and rinse thoroughly. If skin irritation continues, consult a doctor.	



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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 Not required.
- · 6.2 Environmental precautions:
- Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil.
- 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 protect

See Section 8 for information on personal protection equipment.

See Section 7 for information on safe handling

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.
- · 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

· Additional information about design of technical systems: No further data; see item 7.

- · 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.

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	(Contd. of pa • Additional information: The lists that were valid during the compilation were used as bas
· 8.2 F	xposure controls
	ersonal protective equipment
	General protective and hygienic measures
	Wash hands during breaks and at the end of the work.
	• Breathing equipment: Not required.
	· Protection of hands:
	The glove material has to be impermeable and resistant to the product/ the substance/
	preparation.
	Selection of the glove material on consideration of the penetration times, rates of diffusion
	the degradation
	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
	further marks of quality and varies from manufacturer to manufacturer. As the product
	preparation of several substances, the resistance of the glove material can no
	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 protect
	gloves and has to be observed.
	For the permanent contact of a maximum of 15 minutes gloves made of
	following materials are suitable:
	Butyl rubber, BR
	Nitrile rubber, NBR
	Eye protection: Safety glasses
	Body protection: Light weight protective clothing

· 9.1 Information on	n basic physical	and chemical properties

· Appearance: · Form: · Colour: · Smell:	Fluid Colourless Odourless	
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	-3836 °C Not determined	
· Flash point:	Not applicable	
· Inflammability (solid, gaseous)	Not applicable.	
· Ignition temperature:	320.0 °C	
· Decomposition temperature:	Not determined.	
· Self-inflammability:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive.	
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 Critical values for explosion: Lower: Upper: 	Not determined. Not determined.	
· Steam pressure at 20 °C:	1 hPa	
 Density at 20 °C Relative density Vapour density Evaporation rate 	1.150 g/cm ³ Not determined. Not determined. Not determined.	
 Solubility in / Miscibility with Water at 20 °C: 	500 g/l	
· Partition coefficient (n-octanol/	water): Not determined.	
 Viscosity: dynamic at 20 °C: kinematic: 	100 mPas Not determined.	
Solvent content: VOC EU 9.2 Other information	g/l No further relevant information available.	

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

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

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

LD/LC50 values that are relevant for classification:

Polyethylenglycol 200

Oral LD50 15000 mg/kg (rat)

Primary irritant effect:

- 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.

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) 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. (Contd. on page 5)



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(Contd. of page 4) • Aspiration hazard Based on available data, the classification criteria are not met.

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 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Small quantities can be polymerized with the matching system component(s) and the cured solid material can be disposed of with the regular garbage.

Disposal must be made according to official regulations.

- Waste disposal key number: 55370
- · Uncleaned packagings:
 - · Recommendation: Disposal must be made according to official regulations.
 - Recommended cleaning agent: Water, if necessary with cleaning agent.

14.1 UN-Number · ADR, ADN, IMDG, IATA	Void	
	1010	
14.2 UN proper shipping name	Void	
· ADR, ADN, IMDG, IATA	voiu	
14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA		
· Class	Void	
14.4 Packing group		
· ADR, IMDG, IATA	Void	
14.5 Environmental hazards:		
• Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
• •		
14.7 Transport in bulk according to An	nex II	
of Marpol and the IBC Code	Not applicable.	
· Transport/Additional information:	-	
· UN "Model Regulation":	Void	

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SECTION 15: Regulatory information

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

· National regulations

· 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. · Relevant phrases H302 Harmful if swallowed. H312 Harmful in contact with skin. H315 Causes skin irritation. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure. Abbreviations and acronyms: ADR: Accord européen sur le transport 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, Schweis (Swiss Ordinance on volatile organic compounds) 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 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 * * Data compared to the previous version altered.