

Printing date 10.06.2021

Version number 6

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SECTION 1: Identification of the substance/mixture and of th undertaking	ne company/
· 1.1 Product identifier	
Trade name: Technovit 2210	
• 1.2 Relevant identified uses of the substance or mixture and uses advised agai No further relevant information available.	nst
 Application of the substance / the mixture Lightcuring material for fixing, filling and sealing of specimens 	
 • 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.com 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number): +49 	0 (0)6132-84463
SECTION 2: Hazards identification	
2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Skin Sens. 1 H317 May cause an allergic skin reaction.	
• 2.2 Label elements • Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation. • Hazard pictograms GHS07	
· Signal word Warning	
 Hazard-determining components of labelling: triethylen glycol dimethacrylate methyl methacrylate Hazard statements H317 May cause an allergic skin reaction. Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face prote P302+P352 IF ON SKIN: Wash with plenty of soap and water. P333+P313 If skin irritation or rash occurs: Get medical advice/attention. • 2.3 Other hazards • Results of PBT and vPvB assessment • PBT: Not applicable. • vPvB: Not applicable. 	tection.
SECTION 2: Composition (information on insure disease	
SECTION 3: Composition/information on ingredients	
· 3.2 Chemical characterisation: Mixtures · Description: -	



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 Dangerous components: 		
CAS: 109-16-0 EINECS: 203-652-6 Reg.nr.: 01-2119969287-21-xxxx	triethylen glycol dimethacrylate Skin Sens. 1B, H317	10-25%
CAS: 80-62-6 EINECS: 201-297-1 Reg.nr.: 01-2119452498-28-xxxx	methyl methacrylate Flam. Lig. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	≥0.1-<1%
CAS: 131-57-7 EINECS: 205-031-5	Oxybenzone Aquatic Acute 1, H400; Aquatic Chronic 2, H411	<i>≥</i> 0.25-<1%
• Additional information For t	he wording of the listed hazard phrases refer to section	16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

General information

Personal protection for the First Aider.

Instantly remove any clothing soiled by the product.

- · 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 or rash occurs: Get medical advice/attention.
- · After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor. Remove contact lenses, if present and easy to do. Continue rinsing.

After swallowing

In case of persistent symptoms consult doctor.

Rinse out mouth and then drink plenty of water.

- 4.2 Most important symptoms and effects, both acute and delayed Allergic reactions
- 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. For safety reasons unsuitable extinguishing agents Water with a full water jet. · 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire. Can be released in case of fire Carbon dioxide (CO2) Carbon monoxide (CO) 5.3 Advice for firefighters

Protective equipment:

Wear self-contained breathing apparatus. (EN 133)

Additional information

Cool endangered containers with water spray jet.

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(Contd. of page 2) Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SE	CTION 6: Accidental release measures	
Avo Ens Wea Kee • 6.2 Do I Do I Do I Do I Do I Do I Do I Do I	Personal precautions, protective equipment and emergency procedures id contact with eyes and skin. ure adequate ventilation ar protective equipment. Keep unprotected persons away. p away from ignition sources Environmental precautions: not allow to enter the ground/soil. not allow to enter drainage system, surface or ground water. np down gases/fumes/haze with water spray jet. Methods and material for containment and cleaning up: orb with liquid-binding material (diatomite, universal binders, for small amounts tissues). d for recovery or disposal in suitable containers. Reference to other sections Section 8 for information on personal protection equipment. Section 7 for information on safe handling	
SE	CTION 7: Handling and storage	
Avo Ens Kee	vent formation of aerosols. id contact with eyes and skin. ure good ventilation/exhaustion at the workplace. p away from heat and direct sunlight.	
0 2 2 2 2 2 2 2 2 4 7 2 1 4 7 2 1 1 4 7 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Handling do not mix with borganic peroxides amine Strong bases Strong acids Radical initiator educing agent Strong oxidizers Vater. Information about protection against explosions and fires: Protect from heat. Keep ignition sources away - Do not smoke.	
	Conditions for safe storage, including any incompatibilities Storage	
	Requirements to be met by storerooms and containers: Store in cool location. Information about storage in one common storage facility: Store away from foodstuffs. Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.	
	Further information about storage conditions: Store cool (not above 25 °C). Specific end use(s) No further relevant information available.	

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· Additio		tion about des	ign of technical systems: No further data; see item 7
· Compo	onents with a	critical values a	that require monitoring at the workplace:
80-62-6 m	ethyl methad	crylate	
VEL (Grea	at Britain)		alue: 416 mg/m³, 100 ppm
		-	alue: 208 mg/m³, 50 ppm
OELV (Ei	ıropean Unioi		alue: 100 ppm
		Long-term va	alue: 50 ppm
	DNELs		
'09-16-0 t	riethylen gly	col dimethacr	ylate
Dral	ge.pop., l.te,	syst.	8.33 mg/Kg (nd)
Dermal	worker indus	tr., l.te., syst.	13.9 mg/Kg/d (nd)
	ge.pop., l.te,		8.33 mg/Kg/d (nd)
nhalative	worker indus	tr., l.te., syst.	48.5 mg/m3 (nd)
	ge.pop., l.te,	syst.	14.5 mg/m3 (nd)
80-62-6 m	ethyl methad	crylate	
Dral	ge.pop., l.te,	syst.	8.2 mg/Kg (nd)
Dermal	worker indus	tr., l.te., syst.	13.67 mg/Kg/d (nd)
	ge.pop., l.te,	syst.	8.2 mg/Kg/d (nd)
nhalative	worker indus	tr., acute, local	,
		tr., I.te., syst.	348.4 mg/m3 (nd)
		tr., l.te., local	208 mg/m3 (nd)
	ge.pop., acu		208 mg/m3 (nd)
	ge.pop., l.te,		74.3 mg/m3 (nd)
31-57-7 (Oxybenzone	-	
Dral	ge.pop., l.te,	syst.	2 mg/Kg (nd)
Dermal		tr., l.te., syst.	39 mg/Kg/d (nd)
	ge.pop., l.te,	-	20 mg/Kg/d (nd)
nhalative	worker indus		27.7 mg/m3 (nd)
	ge.pop., l.te,	-	6.8 mg/m3 (nd)
L	PNECs	-	
		col dimethacr	vlate
eshwater		016 mg/l (nd)	y 1410
narine wa		002 mg/l (nd)	
STP		7 mg/l (nd)	
edim., dw		0.185 mg/Kg (nd)	
	·	018 mg/Kg (nd)	
oil,dw	·	027 mg/Kg (nd)	
,	ethyl metha		/
reshwater		94 mg/l (aqua)	
Sonwaler		94 mg/l (aqua) 94 mg/l (nd)	
narine wa		094 mg/l (nd)	
STP		0 mg/l (nd)	
	10	, mg/r (nu)	(Contd. c



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sedim., dw, fre.wat.	
sedim., dw, mar.wat.	0.102 mg/Kg (nd)
soil,dw	1.48 mg/Kg (nd)
131-57-7 Oxybenzon	
freshwater	0.00067 mg/l (nd)
marine water	0.000067 mg/l (nd)
STP	10 mg/l (nd)
sedim., dw, fre.wat.	0.066 mg/Kg (nd)
sedim., dw, mar.wat.	0.007 mg/Kg (nd)
soil,dw	0.013 mg/Kg (nd)
,	prmation: The lists that were valid during the compilation were used as basis.
Avoid contact v Instantly remov Keep away fror Wash hands du Breathing equ Use breathing p Filter A/P2. Protection of I The glove mat preparation. Due to missing preparation/the chemical protect Check protectiv Selection of the the degradation Material of The selectiv further mark NBR: acrylo Penetration The exact b gloves and b >30 min	brotection in case of insufficient ventilation. hands: erial has to be impermeable and resistant to the product/ the substance/ the tests no recommendation to the glove material can be given for the product/ the e chemical mixture. ction gloves are suitable, which are tested according to EN 374 ve gloves prior to each use for their proper condition. e glove material on consideration of the penetration times, rates of diffusion and gloves on of the suitable gloves does not only depend on the material, but also of so of quality and varies from manufacturer to manufacturer. ponitrile-butadiene rubber (0,11 mm) n time of glove material break trough time has to be found out by the manufacturer of the protectiv has to be observed. n: eye protection (EN 166)
Limitation and su Do not allow to en	on: Light weight protective clothing upervision of exposure into the environment ter the ground/soil

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SECTION 9: Physical and chen	
9.1 Information on basic physical and	d chemical properties
General Information Appearance:	
Form:	Pasty
· Colour:	Yellowish
· Smell:	Odourless
· Odour threshold:	Not determined.
· pH-value:	Not determined.
Change in condition	
Melting point/freezing point:	Not determined
Initial boiling point and boiling	
· Flash point:	Not applicable
 Inflammability (solid, gaseous) 	Not applicable.
 Decomposition temperature: 	Not determined.
·SAPT	
Technovit 2210 >300 °C	
Self-inflammability:	Product is not selfigniting.
• Explosive properties:	Product is not explosive.
 Critical values for explosion: 	
Lower:	Not determined.
· Upper:	Not determined.
· Steam pressure:	Not determined.
· Density	Not determined
· Relative density	Not determined.
· Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix
· Partition coefficient: n-octanol/wa	ter: Not determined.
Viscosity:	
dynamic:	Not determined.
· kinematic:	Not determined.

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** Exothermic polymerisation

10.4 Conditions to avoid

moisture exposure Heat, flames and sparks.

· 10.5 Incompatible materials:

amine

organic peroxides

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Radical initiator reducing agent Strong bases Strong oxidizers Strong acids Water. • **10.6 Hazardous decomposition products:** None Hydrocarbons Methanole

	oxicological information
nation or	n toxicological effects
	ased on available data, the classification criteria are not met.
	les that are relevant for classification:
-	glycol dimethacrylate
	8,300 mg/kg (rat)
	>2,000 mg/kg (mouse)
	~7,900 mg/kg (rat)
	>5,000 mg/kg (rab) (OECD 402)
	• • • •
	>12,800 mg/kg (rat) (OECD 401)
	>16,000 mg/kg (rabbit) (OECD 402)
cause an nal toxic R effects Germ cell Carcinoge	or skin sensitisation allergic skin reaction. ological information: (carcinogenity, mutagenicity and toxicity for reproduction) mutagenicity Based on available data, the classification criteria are not met. enicity Based on available data, the classification criteria are not met. tive toxicity Based on available data, the classification criteria are not met.
) T-single) T-repeat	exposure Based on available data, the classification criteria are not met. ed exposure Based on available data, the classification criteria are not met. azard Based on available data, the classification criteria are not met.
T-single T-repeat iration ha	exposure Based on available data, the classification criteria are not met. ed exposure Based on available data, the classification criteria are not met.
T-single T-repeat iration ha N 12: Ec ity c toxicity	exposure Based on available data, the classification criteria are not met. ed exposure Based on available data, the classification criteria are not met. azard Based on available data, the classification criteria are not met. cological information
DT-single DT-repeat iration ha N 12: Ec ity c toxicity riethylen	exposure Based on available data, the classification criteria are not met. ed exposure Based on available data, the classification criteria are not met. azard Based on available data, the classification criteria are not met. cological information
	mation or coxicity Bi C50 valu riethylen LD50 LD50 LD50 LD50 LC50/4 h Dxybenzo LD50 LD50 LD50 LD50 Cybenzo Serious ey Based on a piratory of cause an onal toxic Cerm cell Carcinoge

LC50/96h 16.4 mg/l (fish) (OECD 203)

NOEC / 21d 32 mg/l (daphnia) (OECD 211)

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	n >100 mg/l (algae) (OECD 201)
	18.6 mg/l (algae) (OECD 201)
	n 72.8 mg/l (algae) (OECD 201)
	thyl methacrylate
	49 mg/L (daphnia) (OECD 211)
	69 mg/l (daphnia) (EPA OTS 797.1300)
NOEC / 210	37 mg/l (daphnia) (OECD 211)
ErC50 / 72	n >110 mg/l (algae) (OECD 201)
NOEC / 72h	110 mg/l (algae) (OECD 201)
NOEC / 48h	48 mg/l (daphnia) (EPA OTS 797.1300)
EbC50 / 72l	n >110 mg/l (algae) (OECD 201)
NOEC/ 35d	9.4 mg/L (fish) (OECD 210)
LC50/ 35d	33.7 mg/L (fish) (OECD 210)
131-57-7 O	kybenzone contraction of the second
EC50/48h	1.87 mg/l (daphnia) (OECD 202)
LC50/96h	3.8 mg/l (fish) (OECD 203)
ErC50 / 72	n 0.67 mg/l (algae) (OECD 201)
NOEC / 72h	0.18 mg/l (algae) (OECD 201)
NOEC / 96h	0.72 mg/l (fish) (OECD 203)
NOEC / 48h	1.15 mg/l (daphnia) (OECD 202)
	tence and degradability
	ethylen glycol dimethacrylate
	tion 85 % /28d (nd) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)
	thyl methacrylate
	ion 94 % /14d (nd) (OECD 301C)
131-57-7 O	
Biodegrada	ion 60-70 % /28d (nd)
	cumulative potential
131-57-7 O	-
	ation factor (BCF) >33-<160 (fish) (OECD 305)
Additior Gene	ty in soil No further relevant information available. nal ecological information: ral notes:
sewa	ot allow undiluted product or large quantities of it to reach ground water, water bodies or ge system.
quant	
12.5 Result PBT: No	er to drinking water if even extremely small quantities leak into soil. s of PBT and vPvB assessment t applicable. ot applicable.
· 12.6 Other	adverse effects No further relevant information available.
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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.

SECTION 14: Transport information		
14.1 UN-Number ADR, IMDG, IATA	Void	
• 14.2 UN proper shipping name ADR, IMDG, IATA	Void	
 14.3 Transport hazard class(es) 		
· ADR, ADN, IMDG, IATA · Class	Void	
14.4 Packing group ADR, IMDG, IATA	Void	
 14.5 Environmental hazards: Marine pollutant: 	No	
[•] 14.6 Special precautions for user	Not applicable.	
 14.7 Transport in bulk according to Annex Marpol and the IBC Code 	II of Not applicable.	
· Transport/Additional information:	-	
· UN "Model Regulation":	Void	

SECTION 15: Regulatory information

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

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

· Information about limitation of use:

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning pregnant and lactating women must be observed. • 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

H225 Highly flammable liquid and vapour. H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

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(Contd. of page 9) H400 Very toxic to aquatic life. H411 Toxic to aquatic life with long lasting effects. Abbreviations and acronyms: SAPT: Self Accelerating Polymerisation 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 by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals ELINCCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Society) DNEL: Derived Not-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent LD50: Lethal concrosion/initiation – Category 2 Skin Sens, 11: Skin sensitisation – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 **Sources** (EC) 1272/2008: classification, labelling and packaging of substances and mixtures (EC) 1272/2008: classification, labelling and packaging of substances and mixtures (EC) 1272/2008: classification, labelling and packaging of substances and mixtures (EC) 1272/2008: classification, labelling and packaging of substances and mixtures (EC) 1272/2008: classification, labelling and packaging of substances and mixtures (EC) 1272/2008: classification, labelling and packaging of substances and mixtures (EC) 1272/2008: classification, labelling and pack