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undertaking	nixture and of the company,			
· 1.1 Product identifier				
· Trade name: Technovit 2000 LC				
1.2 Relevant identified uses of the substance or mixture and uses advised against				
No further relevant information available.	la uses advised against			
• Application of the substance / the mixture Resin for meta	allographic testing			
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-d	lental com			
1.4 Emergency telephone number: Emergency CONTACT (2				
SECTION 2: Hazards identification				
2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/200	08			
Flam. Liq. 2 H225 Highly flammable liquid and vapor				
Skin Irrit. 2 H315 Causes skin irritation.				
Eye Irrit. 2 H319 Causes serious eye irritation.				
Skin Sens. 1 H317 May cause an allergic skin reaction	on.			
Aquatic Chronic 3 H412 Harmful to aquatic life with long la	sting effects.			
- Hazard pictograms				
GHS02 GHS07				
· Signal word Danger				
Hazard-determining components of labelling:				
ethyl methacrylate methacrylic acid, monoester with propane-1,2-diol				
triethylen glycol dimethacrylate				
mequinol Hozord statements				
 Hazard statements H225 Highly flammable liquid and vapour. 				
H315 Causes skin irritation.				
H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.				
H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.				
Precautionary statements				
P210 Keep away from heat/sparks/open fla P241 Use explosion-proof electrical/ventilation	ting/lighting/equipment.			
	apours/sprav.			
P261 Avoid breathing dust/fume/gas/mist/v P303+P361+P353 IF ON SKIN (or hair): Remove/Tal clothing. Rinse skin with water/showe	ke off immediately all contaminated			



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(Contd. of page 1) P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P321 Specific treatment (see on this label).

· 2.3 Other hazards -

Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

3.2 Chemical characterisation: Mixtures · Description: -				
Dangerous components:				
CAS: 10595-06-9	2-phenoxyethyl methacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319	25-50%		
CAS: 97-63-2 EINECS: 202-597-5 Reg.nr.: 05-2114105438-54-XXXX	ethyl methacrylate Flam. Lig. 2, H225; Skin Irrit. 2, H315; Eve Irrit. 2,	10-25%		
CAS: 27813-02-1 EINECS: 248-666-3	methacrylic acid, monoester with propane-1,2-diol Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	5-10%		
CAS: 7534-94-3 EINECS: 231-403-1	isobornyl methacrylate Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	5-10%		
CAS: 109-16-0 EINECS: 203-652-6 Reg.nr.: 01-2119969287-21-0000	triethylen glycol dimethacrylate Skin Sens. 1B, H317	< 1%		
CAS: 150-76-5 EINECS: 205-769-8	mequinol Acute Tox. 4, H302; Eye Irrit. 2, H319; Skin Sens. 1, H317	< 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

- · After inhalation Supply fresh air; consult doctor in case of symptoms.
- · After skin contact
- Instantly rinse with water.
- 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.
- 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.

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SECTION 5: Firefighting measures

· 5.1 Extinguishing media

Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water.
 For safety reasons unsuitable extinguishing agents Water.

5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

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

- 5.3 Advice for firefighters
 - · Protective equipment: No special measures required.
 - · Additional information -

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Not required.

6.2 Environmental precautions: No special measures required.

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).
- 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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.

- Information about protection against explosions and fires:
- Keep ignition sources away Do not smoke.

Protect against electrostatic charges.

- · 7.2 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: Not required.
 - Further information about storage conditions:
 - Store in cool, dry conditions in well sealed containers.

· 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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· DNELs	(Contd. of page
	glycol dimethacrylate
	dustr., I.te., syst. 13.9 mg/Kg/d (nd)
	dustr., I.te., syst. 48.5 mg/m3 (nd)
PNECs	
	glycol dimethacrylate
marine water	0.0164 mg/l (nd)
sedim., dw, fre.wat.	1.85 mg/Kg (nd)
sedim., dw, mar.wat.	
soil,dw	0.274 mg/Kg (nd)
· Additional inf	formation: The lists that were valid during the compilation were used as basis
Keep away fro Instantly remove Wash hands d Avoid contact of Breathing equ Not neccessar protective mas Protection of The glove man preparation. Selection of the the degradation If skin contact sensitization. Solvent resista Material of The select further man preparation calculated i Penetration The exact gloves and For the por following r	ry with efficient local exhaust. If exposition to vapours is possible, use breathing (filter A). hands: terial has to be impermeable and resistant to the product/ the substance/ to re glove material on consideration of the penetration times, rates of diffusion and t cannot be avoided, protective gloves are recommended to avoid possible ant gloves f gloves f gloves f gloves f of the suitable gloves does not only depend on the material, but also t cannot so f uality and varies from manufacturer to manufacturer. As the product is n of several substances, the resistance of the glove material can not be in advance and has therefore to be checked prior to the application. n time of glove material break trough time has to be found out by the manufacturer of the protecti has to be observed. ermanent contact of a maximum of 15 minutes gloves made of the materials are suitable: er, BR
Nitrile rubbe • Eye protectio	n: Safety glasses ion: Light weight protective clothing

Appearance: · Form:

Fluid

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	(Contd. of page
Colour: Smell: Odour threshold:	Colourless Characteristic Not determined.
pH-value:	Not determined.
Change in condition Melting point/Melting range: Boiling point/Boiling range:	Not determined Not determined
· Flash point:	20 °C
Inflammability (solid, gaseous)	Not applicable.
Ignition temperature:	
• Decomposition temperature:	Not determined.
Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation o explosive air/vapour mixtures is possible.
 Critical values for explosion: Lower: Upper: 	Not determined. Not determined.
· Steam pressure:	Not determined.
 Density Relative density Vapour density Evaporation rate 	Not determined Not determined. Not determined. Not determined.
• Solubility in / Miscibility with • Water:	Not miscible or difficult to mix
· Partition coefficient (n-octanol/wa	ater): Not determined.
 Viscosity: dynamic: kinematic: 	Not determined. Not determined.
· Solvent content:	
Solids content: 9.2 Other information	0.3 % 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

· Additional information: -

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		n toxicological effects Based on available data, the classification criteria are not met.
		ues that are relevant for classification:
		ne acrylate oligomer
Dermal	LD50	> 2000 mg/kg (rat) (OECD 402)
97-63-2 et	hyl meth	acrylate
Oral	LD50	14800 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (can)
Inhalative	LC50/4 ł	n 38 mg/l (rat)
27813-02-	1 methac	crylic acid, monoester with propane-1,2-diol
Oral	LD50	> 2000 mg/kg (rat)
Dermal	LD50	> 5000 mg/kg (rab)
7534-94-3		yl methacrylate
Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rab)
		n glycol dimethacrylate
Oral	LD50	> 5000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (mouse)
150-76-5 I		
Oral	LD50	1600 mg/kg (rat) ant effect:
· Res May · CM · CM · CM · CM · CM · CM · CM · CM	Skin corro Causes sk Serious e Causes se piratory cause an cause an R effects Germ cell Carcinogo Reproduc OT-single OT-repeat	osion/irritation kin irritation. Appe damage/irritation erious eye irritation. or skin sensitisation n allergic skin reaction. (carcinogenity, mutagenicity and toxicity for reproduction) I mutagenicity Based on available data, the classification criteria are not met enicity Based on available data, the classification criteria are not met. ctive toxicity Based on available data, the classification criteria are not met. ctive toxicity Based on available data, the classification criteria are not met. ctive toxicity Based on available data, the classification criteria are not met. ctive toxicity Based on available data, the classification criteria are not met. appendix and available data, the classification criteria are not met. ted exposure Based on available data, the classification criteria are not met. appendix and based on available data, the classification criteria are not met.
SECTIO		cological information
12.1 Toxic · Aquati	c toxicity	/: crylic acid, monoester with propane-1,2-diol

109-16-0 triethylen glycol dimethacrylate EC50/72h > 100 mg/l (algae)

150-76-5 mequinol

LC50/96h 28.5 mg/l (fish)

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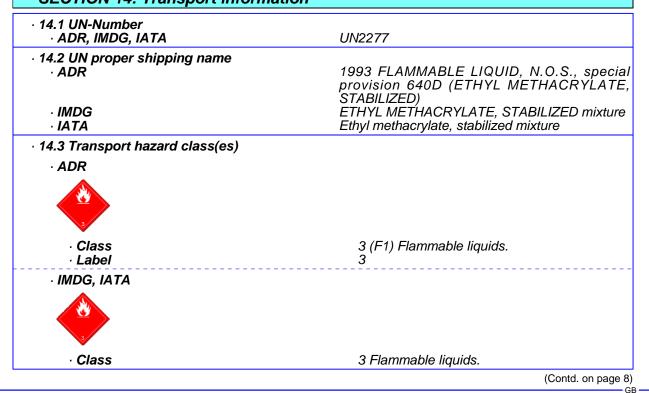
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(Contd. of page 6) 12.2 Persistence and degradability No further relevant information available. · 12.3 Bioaccumulative potential No further relevant information available. · 12.4 Mobility in soil No further relevant information available. Ecotoxical effects: Remark: Harmful to fish · Additional ecological information: General notes: Do not allow product to reach ground water, water bodies or sewage system. Danger to drinking water if even small quantities leak into soil. Harmful to aquatic organisms • 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 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. **SECTION 14: Transport information**





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· Label	(Contd. of page 3
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· 14.4 Packing group · ADR, IMDG, IATA	11
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Flammable liquids.
· Kemler Number:	33
· EMS Number:	F-E,S-D
· Stowage Category	B
· 14.7 Transport in bulk according to Anne	ex II
of Marpol and the IBC Code	Not applicable.
· Transport/Additional information:	-
· ADR	
 Limited quantities (LQ) 	1L
Excepted quantities (ÉQ)	Code: E2
	Maximum net quantity per inn packaging:30 ml
	Maximum net quantity per out
	packaging: 500 ml
 Transport category 	2
• Tunnel restriction code	D/E
· IMDG	
· Limited quantities (LQ)	1L
Excepted quantities (ÉQ)	Code: E2 Maximum pat quantity par inn
	Maximum net quantity per inn packaging:30 ml
	Maximum net quantity per out
	packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S
	SPECIAL PROVISION 640D (ETH)
	METHACRYLATE, STABILIZED), 3, II

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. • Seveso category P5c FLAMMABLE LIQUIDS

• Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t

- Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

National regulations

· Information about limitation of use:

Employment restrictions concerning young persons must be observed. Employment restrictions concerning pregnant and lactating women must be observed.

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