

Printing date 03.06.2022

Version number 3 (replaces version 2)

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A A Due durat tale	
1.1 Product iden	
• Trade name:	Technovit 4006 Powder colourless
	ntified uses of the substance or mixture and uses advised against t information available.
· Application o	f the substance / the mixture Resin for metallographic testing
• <b>Manufacturer</b> Kulzer GmbH Leipziger Stral	supplier of the safety data sheet /Supplier: 8e 2, 63450 Hanau (Germany) 81 9689-2570 (Wehrheim)
Informing dep 1.4 Emergency to	partment: email: technik.wehrheim@kulzer-dental.com elephone number: Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463
SECTION 2: H	azards identification
	n of the substance or mixture
Classification	according to Regulation (EC) No 1272/2008
Skin Sens. 1	H317 May cause an allergic skin reaction.
Aquatic Chron	ic 2 H411 Toxic to aquatic life with long lasting effects.
2.2 Label elemen	its
Labelling acc The product is Hazard pic	ording to Regulation (EC) No 1272/2008 classified and labelled according to the GB CLP regulation. tograms
GHS07 C	SHS09
· Signal wor	d Warning
dibenzoyl p methyl meta • <b>Hazard sta</b> H317 May o H411 Toxic • <b>Precaution</b> P273 P280	hacrylate <b>tements</b> cause an allergic skin reaction. to aquatic life with long lasting effects. <b>pary statements</b> Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.
P333+P313 P501	2 IF ON SKIN: Wash with plenty of soap and water. 3 If skin irritation or rash occurs: Get medical advice/attention. Dispose of contents/container in accordance with local/regional/nationa international regulations.
2.3 Other hazard	s T and vPvB assessment

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	SECTION 3: Composition/information on ingredients		
· 3.2 Mixtures			
<ul> <li>Dangerous component</li> </ul>	ts:		
CAS: 94-36-0 EINECS: 202-327-6	dibenzoyl peroxide Self-react. B, H241; Org. Perox. B, H241 -xxxx Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10) Eye Irrit. 2, H319; Skin Sens. 1, H317		
-	methyl methacrylate ≥1-≤5% Flam. Liq. 2, H225 -xxxx Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335		
· Additional information	For the wording of the listed hazard phrases refer to section 16.		
SECTION 4: First aid	measures		
If skin irritation or rash of After eye contact Rinse opened eye for se Remove contact lenses, After swallowing Rinse out mouth and the In case of persistent sym	nptoms consult doctor. oms and effects, both acute and delayed Allergic reactions ediate medical attention and special treatment needed		
	ion available.		
For safety reasons uns 5.2 Special hazards arisin Combustible solids. Fine du	agents der or water jet. Fight larger fires with water jet or alcohol-resistant foam. suitable extinguishing agents Water with a full water jet. g from the substance or mixture st clouds can form explosive mixtures with air. possible during heating or in case of fire. fire		



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• Additional information Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

<b>SECTION 6</b> :	Accidental release measures				
Avoid contact w	<b>ecautions, protective equipment and emergency procedures</b> th eyes and skin. executivation				
Ensure adequate ventilation Wear protective equipment. Keep unprotected persons away. Avoid causing dust. Keep away from ignition sources <b>6.2 Environmental precautions:</b> Do not allow to enter drainage system, surface or ground water. Damp down dust with water spray jet. <b>6.3 Methods and material for containment and cleaning up:</b> Collect mechanically. Send for recovery or disposal in suitable containers.					
				o other sections r information on safe handling	
				r information on personal protection equipment.	
			<b>SECTION 7:</b>	Handling and storage	
			Avoid contact w Any deposit of c Prevent formatic Use appropriate Information Use explosic Dust can cor Protect again Keep ignition Handling	industrial vacuum cleaners or central vacuum systems for dust removal. <b>about protection against explosions and fires:</b> n-proof apparatus / fittings and spark-proof tools. nbine with air to form an explosive mixture. st electrostatic charges. sources away - Do not smoke.	
do not mix w reducing age Strong oxidiz Strong bases Strong acids	nt ers				
Storage	for safe storage, including any incompatibilities nents to be met by storerooms and containers:				
Store in c · <b>Informat</b>	ool, dry place in tightly closed containers. on about storage in one common storage facility: Not required. Information about storage conditions: I (not above 25 °C).				
	CHOLADOVE ZO CH				



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	ol parameters			
-		ies that require	monitoring at the workplace:	
94-36-0 dibenzoyl peroxide				
WEL (Gre	, –	m value: 5 mg/n	1 <sup>3</sup>	
	ethyl methacrylate			
WEL (Gre	Long-ter	rm value: 416 m m value: 208 mg	g/m³, 50 ppm	
IOELV (European Union) Short-ter Long-ter		m value: 100 ppm n value: 50 ppm		
· DNI	ELs			
94-36-0 di	benzoyl peroxide			
Oral	general population, long	term, systemic	2 mg/Kg (not defined)	
Dermal	worker industrial, long te	erm, systemic	13.3 mg/Kg/d (not defined)	
Inhalative	worker industrial, long te	erm, systemic	39 mg/m3 (not defined)	
	ethyl methacrylate			
Oral	general population, long	term, systemic	8.2 mg/Kg (not defined)	
Dermal	worker industrial, long te	•	13.67 mg/Kg/d (not defined)	
	general population, long	term, systemic	8.2 mg/Kg/d (not defined)	
Inhalative			416 mg/m3 (not defined)	
	worker industrial, long te	erm, systemic	348.4 mg/m3 (not defined)	
	worker industrial, long te		208 mg/m3 (not defined)	
	general population, acut	te, local	208 mg/m3 (not defined)	
	general population, long	term, systemic	74.3 mg/m3 (not defined)	
· PNI	ECs			
94-36-0 di	benzoyl peroxide			
freshwater		0.00002 mg/l (	not defined)	
marine wa	ter	0.000002 mg/l	(not defined)	
sewage tre	eatment plant	0.35 mg/l (not	0.35 mg/l (not defined)	
sediment,	dry weight, freshwater	0.013 mg/Kg (	0.013 mg/Kg (not defined)	
sediment,	dry weight, marine water	<sup>-</sup> 0.001 mg/Kg (		
soil, dry w	eight	0.003 mg/Kg (	0.003 mg/Kg (not defined)	
80-62-6 m	ethyl methacrylate	•		
freshwater		0.94 mg/l (not	defined)	
marine wa	ter	0.094 mg/l (no	0.094 mg/l (not defined)	
sewage tre	eatment plant	10 mg/l (not de	efined)	
sediment,	dry weight, freshwater	10.2 mg/Kg (n	ot defined)	
sediment,	dry weight, marine water	<sup>-</sup> 0.102 mg/Kg (	not defined)	
soil, dry w	eight	1.48 mg/Kg (n	ot defined)	

• Appropriate engineering controls No further data; see item 7.

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<ul> <li>Individual protection measures, s</li> </ul>	such as personal protective equipment
General protective and hygien	ic measures
	es should be adhered to in handling the chemicals.
Do not eat or drink while working	Į.
Avoid contact with the eyes and	
Instantly remove any soiled and	impregnated garments.
Keep away from foodstuffs, beve	erages and food.
Breathing equipment:	
Use breathing protection in case	of insufficient ventilation.
Use a mask with particle filter in	case of dust generation.
• Hand protection	
Not required.	
	endation to the glove material can be given for the product/ the
preparation/ the chemical mixture	
	n consideration of the penetration times, rates of diffusion and
the degradation	
	npermeable and resistant to the product/ the substance/ the
preparation.	
	uitable, which are tested according to EN 374
Check protective gloves prior to	each use for their proper condition.
Material of gloves	
The selection of the suitable	e gloves does not only depend on the material, but also on
further marks of quality and v	aries from manufacturer to manufacturer.
NBR: acrylonitrile-butadiene r	
Penetration time of glove m	
	e has to be found out by the manufacturer of the protective
gloves and has to be observe	ł <b>a</b> .
>30 min	Han (EN1 166)
• Eye/face protection eye protect	
Body protection: Light weight p	
Environmental exposure controls	
Do not allow to enter the ground/soi Do not allow to enter drainage syste	
Do not allow to enter trainage syste	
SECTION 9: Physical and cher	nical properties
• 9.1 Information on basic physical an	d chemical properties
· General Information	• •
· Physical state	Solid.
Colour	According to product aposition

Colour: According to product specification · Smell: Odourless Melting point/freezing point:
 Boiling point or initial boiling point and boiling range Not determined 100 °C (80-62-6 methyl methacrylate) Flash point: Not applicable · SADT · pH · Viscosity: Not applicable. Not applicable. Not applicable. Kinematic viscosity · dynamic: · Solubility Insoluble Water: Not applicable. · Steam pressure:

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<ul> <li>Density and/or relative density</li> </ul>	
· Density	Not determined
· 9.2 Other information	No further relevant information available.
· Appearance:	
Form:	Powder
· Important information on protection	of
health and environment, and on safety.	
Self-inflammability:	Product is not selfigniting.
• Explosive properties:	Product is not explosive. However, formation
	explosive powder/air mixtures is possible.
<ul> <li>Information with regard to physical haza</li> </ul>	rd
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	s Void
<ul> <li>Pyrophoric liquids</li> </ul>	Void
· Pyrophoric solids	Void
<ul> <li>Self-heating substances and mixtures</li> </ul>	s Void
<ul> <li>Substances and mixtures, which emit</li> </ul>	
flammable gases in contact with water	
• Oxidising liquids	Void
• 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** Heat, flames and sparks. Avoid dust formation. • **10.5 Incompatible materials:**
- reducing agent Strong bases Strong oxidizers
- Strong acids

· 10.6 Hazardous decomposition products: None

#### **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.

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		ies that are relevant for classification:	
94-36-0 di	ibenzoyl p		
Oral LD0 >2,000 mg/kg (mouse) (OECD 401)			
Inhalative LC0/4h 24.3 ppm (rat) (OECD 403)			
80-62-6 m		hacrylate	
Oral	LD50	~7,900 mg/kg (rat)	
Dermal	Dermal LD50 >5,000 mg/kg (guinea pig) (OECD 402)		
		29.8 mg/l (rat) rritation Based on available data, the classification criteria are not met.	
Carcin Repro STOT- STOT-	ogenicity ductive to single exp repeated tion haza	genicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. xicity Based on available data, the classification criteria are not met. bosure Based on available data, the classification criteria are not met. exposure Based on available data, the classification criteria are not met. exposure Based on available data, the classification criteria are not met. fd Based on available data, the classification criteria are not met.	
11.2 Infor Endoc	rine disru	n other hazards pting properties nts is listed.	
• 11.2 Infor Endoc None of th SECTIO	rine disru ne ingredie N 12: Ec	pting properties	
• 11.2 Infor Endoc None of th SECTIO • 12.1 Toxic	rine disru le ingredie N 12: Ec city	pting properties nts is listed. cological information	
• 11.2 Infor Endoc None of th SECTIO • 12.1 Toxic Aquati	rine disru e ingredie N 12: Ec city ic toxicity.	pting properties nts is listed. cological information	
11.2 Infor Endoc None of th SECTIO 12.1 Toxic Aquati 94-36-0 di	rine disru e ingredie N 12: Ec city c toxicity ibenzoyl p	pting properties nts is listed. cological information cological information	
11.2 Infor Endoc None of th SECTIO 12.1 Toxic Aquati 94-36-0 di EC50/72h	nine disru ne ingredie N 12: Ec city c toxicity ibenzoyl p 0.042	pting properties nts is listed.  cological information  cological information  mg/l (algae) (OECD 201)	
• 11.2 Infor Endoc None of th SECTIO • 12.1 Toxic Aquati 94-36-0 di EC50/72h EC50/48h	nine disru ne ingredie N 12: Ecc city ic toxicity ibenzoyl p 0.042 0.11 m	pting properties nts is listed. cological information : peroxide mg/l (algae) (OECD 201) ng/l (daphnia) (OECD 202)	
• 11.2 Infor Endoc None of th SECTIO • 12.1 Toxic • Aquati 94-36-0 di EC50/72h EC50/48h LC50/96h	nine disru e ingredie N 12: Ec city c toxicity ibenzoyl p 0.042 0.11 m 0.06 m	pting properties nts is listed.  cological information  cological information  mg/l (algae) (OECD 201)	

NOEC / 72h 0.02 mg/l (algae) (OECD 201)

- NOEC / 96h 0.032 mg/l (fish) (OECD 203)
- NOEC / 48h
   0.076 mg/l (daphnia) (OECD 202)

   ErC10
   0.001 mg/L /21d (daphnia) (OECD 211)
- 80-62-6 methyl methacrylate

   EC50/21d
   49 mg/L (daphnia) (OECD 211)

   EC50/48h
   69 mg/l (daphnia) (EPA OTS 797.1300)

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

   ErC50 / 72 h
   >110 mg/l (algae) (OECD 201)

   NOEC / 72h
   110 mg/l (algae) (OECD 201)

   NOEC / 72h
   48 mg/l (daphnia) (EPA OTS 797.1300)

   EbC50 / 72h
   >110 mg/l (algae) (OECD 201)

   NOEC / 48h
   48 mg/l (daphnia) (EPA OTS 797.1300)

   EbC50 / 72h
   >110 mg/l (algae) (OECD 201)

   NOEC/ 35d
   9.4 mg/L (fish) (OECD 210)

   LC50/ 35d
   33.7 mg/L (fish) (OECD 210)

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· 12.2 Persistence and degradability			
94-36-0 dibenzoyl peroxide			
Biodegradation 71 % /28d (not defined) (OECD 301D)			
80-62-6 methyl methacrylate			
Biodegradation 94 % /14d (not defined) (OECD 301C)			
Biodegradation       94 % /14d (not defined) (OECD 301C)         * 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.         * 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:         Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.         Do not allow product to reach ground water, water bodies or sewage system.         Danger to drinking water if even small quantities leak into soil.			
OFOTION (A. D'ANALASSI'	- ('		
SECTION 13: Disposal considera • 13.1 Waste treatment methods • Recommendation Small quantities can be polymerized wi material can be disposed of with the following the regulations of the local aut • Uncleaned packagings: • Recommendation: Packaging can	rith the matching system component(s) and the cured solio regular garbage. Larger quantities must be disposed of thorities.		
• 13.1 Waste treatment methods Recommendation Small quantities can be polymerized with material can be disposed of with the following the regulations of the local aut • Uncleaned packagings:	rith the matching system component(s) and the cured solid regular garbage. Larger quantities must be disposed of thorities.		
• 13.1 Waste treatment methods • Recommendation Small quantities can be polymerized with material can be disposed of with the following the regulations of the local aut • Uncleaned packagings: • Recommendation: Packaging can	vith the matching system component(s) and the cured solic regular garbage. Larger quantities must be disposed of thorities. be reused or recycled after cleaning.		
• 13.1 Waste treatment methods • Recommendation Small quantities can be polymerized with material can be disposed of with the following the regulations of the local aut • Uncleaned packagings: • Recommendation: Packaging can • SECTION 14: Transport information	vith the matching system component(s) and the cured solic regular garbage. Larger quantities must be disposed o thorities. be reused or recycled after cleaning.		
<ul> <li>13.1 Waste treatment methods         <ul> <li>Recommendation</li> <li>Small quantities can be polymerized with the disposed of with the following the regulations of the local aution</li> <li>Uncleaned packagings:</li></ul></li></ul>	vith the matching system component(s) and the cured solic regular garbage. Larger quantities must be disposed o thorities. be reused or recycled after cleaning.		
<ul> <li>13.1 Waste treatment methods         <ul> <li>Recommendation</li> <li>Small quantities can be polymerized with the following the regulations of the local aution of the l</li></ul></li></ul>	vith the matching system component(s) and the cured solic regular garbage. Larger quantities must be disposed o thorities. be reused or recycled after cleaning.		
<ul> <li>13.1 Waste treatment methods         <ul> <li>Recommendation</li> <li>Small quantities can be polymerized with the disposed of with the following the regulations of the local aution</li> <li>Uncleaned packagings:</li></ul></li></ul>	vith the matching system component(s) and the cured solic regular garbage. Larger quantities must be disposed o thorities. be reused or recycled after cleaning.		

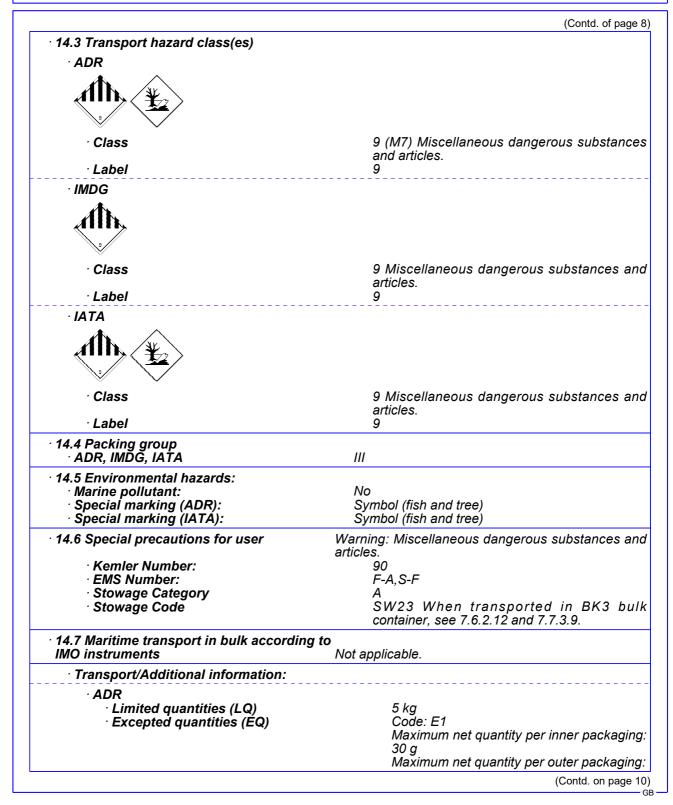


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· · Transport category · Tunnel restriction code	1000 g 3 (-)
• IMDG • Limited quantities (LQ) • Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE), 9, III

#### 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 E2 Hazardous to the Aquatic Environment

- Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
- · Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

· 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. H241 Heating may cause a fire or explosion. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. Abbreviations and acronyms: SADT: Self Accelerating Decomposition Temperature ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement ADK: Accord relating at transport international des machandises dangere 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) DNEL: Derived No-Effect Level (UK REACH) PNEC: Predicted No-Effect Concentration (ÚK REACH) (Contd. on page 11) GB



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(Contd. of page 10) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Self-react. B: Self-reactive substances and mixtures – Type B Org. Percv. B: Organic peroxides – Type B Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Stin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 **Sources** (EC) 1272/2008: classification, labelling and packaging of substances and mixtures (EC) 1907/2006: UK REACH ADR/RID/ADN - IDMG - IATA: transport of dangerous goods by road, rail, inland waterway, with maritime vessels and for the air transport **\* Data compared to the previous version altered.**