

Printing date 25.05.2022

Version number 5 (replaces version 4)

Revision: 25.05.2022

SECTION 1: Identification undertaking	on of the substance/mixture and of the company/
· 1.1 Product identifier	
Trade name: Technovit	powder 6091
	the substance or mixture and uses advised against
No further relevant information as	/ailable.
<ul> <li>Application of the substanc Resin for the treatment of claw</li> </ul>	<i>e / the mixture</i> vs and extracutaneous splinting
1.3 Details of the supplier of th Manufacturer/Supplier: Kulzer GmbH Leipziger Straße 2, 63450 Ha Tel.: +49 (0)6181 9689-2570	nau (Germany)
Informing department: email 1.4 Emergency telephone num	l: technik.wehrheim@kulzer-dental.com <b>ber:</b> Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463
SECTION 2: Hazards iden	tification
· 2.1 Classification of the substa	
	Regulation (EC) No 1272/2008
Aquatic Chronic 2 H411 Toxi	c to aquatic life with long lasting effects.
Hazard pictograms	abelled according to the GB CLP regulation.
regulations. Additional information:	s environment. s/container in accordance with local/regional/national/international n-butyl acrylate. May produce an allergic reaction.
SECTION 3: Composition	/information on ingredients
· 3.2 Mixtures	
· Dangerous components:	
CAS: 94-36-0 EINECS: 202-327-6	dibenzoyl peroxide ≥0.25-<1% Self-react. B, H241; Org. Perox. B, H241

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CAS: 141-32-2 n-butyl acrylate	≥0.1-<1%
EINECS: 205-480-7 Flam. Lig. 3. H226	
Reg.nr.: 01-2119453155-43-xxx Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2	) -,
H319; Skin Sens. 1, H317; STOT SE 3, H335	
Aquatic Chronic 3, H412	
ATE: LC50/4 h inhalative: 10.3 mg/l	
• Additional information For the wording of the listed hazard phrases refer to section	n 16.

**SECTION 4: First aid measures** 

· 4.1 Description of first aid measures

- · General information No special measures required.
- · 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

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**

#### <sup>·</sup> 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. Combustible solids. Fine dust clouds can form explosive mixtures with air.

Carbon dioxide (CO2)

Carbon monoxide (CO)

#### 5.3 Advice for firefighters Protective equipment:

Wear self-contained breathing apparatus.

(EN 133)

· Additional information -

#### **SECTION 6: Accidental release measures**

• 6.1 Personal precautions, protective equipment and emergency procedures Keep people at a distance and stay on the windward side. Wear protective clothing. Avoid causing dust. Keep away from ignition sources Avoid contact with eyes and skin.

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(Contd. of page 2) · 6.2 Environmental precautions: Do not allow to enter drainage system, surface or ground water. Damp down dust with water spray jet. Do not allow to enter the ground/soil. 6.3 Methods and material for containment and cleaning up: Collect mechanically. Send for recovery or disposal in suitable containers. Dispose of the material collected according to regulations. 6.4 Reference to other sections See Section 8 for information on personal protection equipment. See Section 7 for information on safe handling SECTION 7: Handling and storage · 7.1 Precautions for safe handling Wear protective equipment. Keep unprotected persons away. Avoid contact with eyes and skin. Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust. Any deposit of dust which cannot be avoided must be removed regularly. Provide suction extractors if dust is formed. Information about protection against explosions and fires: Dust can combine with air to form an explosive mixture. Use explosion-proof apparatus / fittings and spark-proof tools. Keep ignition sources away - Do not smoke. Protect against electrostatic charges. · Handling do not mix with reducing agent Strong bases Strong oxidizers Strong acids · 7.2 Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and containers: Store in cool, dry place in tightly closed containers. · Information about storage in one common storage facility: Not required. • Further information about storage conditions: Store cool (not above 25 °C). · 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:		
94-36-0 dibenzoyl peroxide		
WEL (Great Britain)	Long-term value: 5 mg/m³	
141-32-2 n-butyl acrylate		
WEL (Great Britain)	Short-term value: 26 mg/m³, 5 ppm Long-term value: 5 mg/m³, 1 ppm	
IOELV (European Union)	Short-term value: 53 mg/m³, 10 ppm Long-term value: 11 mg/m³, 2 ppm	
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	ELs		(Contd. of page	
3 <del>4</del> -30-0 u	ibenzoyl peroxide			
Oral	general population, long	term systemic	2 ma/Ka (not defined)	
Dermal		•	13.3 mg/Kg/d (not defined)	
	worker industrial, long te	-		
	worker industrial, long te	rm, systemic	39 mg/m3 (not defined)	
	n-butyl acrylate			
Inhalative	worker industrial, long te	rm, local	11 mg/m3 (not defined)	
· PN	ECs			
94-36-0 d	ibenzoyl peroxide			
freshwate	r	0.00002 mg/l (	(not defined)	
marine wa	ater	0.000002 mg/l	(not defined)	
sewage tr	eatment plant	0.35 mg/l (not	· /	
-	dry weight, freshwater	0.013 mg/Kg (		
	dry weight, marine water		,	
		0.003 mg/Kg (	,	
soil, dry w	-	0.003 mg/Ng (		
	n-butyl acrylate	0.000	t define d	
freshwate		0.003 mg/l (no		
marine wa		0 mg/l (not dei		
-	eatment plant	3.5 mg/l (not a	,	
	dry weight, freshwater	0.034 mg/Kg (		
sediment,	dry weight, marine water	0.003 mg/Kg (not defined)		
soil, dry w	<i>eight</i>	1 mg/Kg (not a	1 mg/Kg (not defined)	
		e such as nor	data; see item 7.	
Ger Do Do The Avo Wa Bre	neral protective and hyg not inhale dust / smoke / i not eat or drink while work wusual precautionary mea bid contact with the eyes a sh hands during breaks a cathing equipment:	e <b>s, such as per lienic measure</b> mist. king. asures should b and skin.	rsonal protective equipment es e adhered to in handling the chemicals.	
Ger Do Do The Avc Wa Bre Filte	neral protective and hyg not inhale dust / smoke / i not eat or drink while work wusual precautionary mea bid contact with the eyes a sh hands during breaks a cathing equipment: er P3.	<b>is, such as per lienic measure</b> mist. king. asures should b and skin. nd at the end o	rsonal protective equipment es e adhered to in handling the chemicals. f the work.	
Ger Do Do The Avc Wa Bre Filte Use Har The	neral protective and hyg not inhale dust / smoke / i not eat or drink while work with usual precautionary mea old contact with the eyes a sh hands during breaks a sathing equipment: er P3. e a mask with particle filter nd protection e glove material has to be	<b>is, such as per lienic measure</b> mist. king. asures should b and skin. nd at the end o r in case of dus	rsonal protective equipment es e adhered to in handling the chemicals. f the work. t generation.	
Ger Do Do The Avo Wa <b>Bre</b> Filte Use <b>Har</b> The pre Selo the	neral protective and hyg not inhale dust / smoke / i not eat or drink while work with usual precautionary mea bid contact with the eyes a sh hands during breaks a eathing equipment: er P3. e a mask with particle filter nd protection glove material has to b paration. ection of the glove material degradation	<b>is, such as per lienic measure</b> mist. king. asures should b and skin. nd at the end o r in case of dus e impermeable al on considera	rsonal protective equipment e adhered to in handling the chemicals. f the work. t generation. e and resistant to the product/ the substance/ i ation of the penetration times, rates of diffusion a	
Ger Do Do The Avo Wa Bre Filte Use Filte Use Selo the Due prej	neral protective and hyg not inhale dust / smoke / i not eat or drink while work with usual precautionary mea bid contact with the eyes a sh hands during breaks a cathing equipment: er P3. a mask with particle filter nd protection glove material has to b paration. ection of the glove material degradation to missing tests no recomparation/ the chemical mix	<b>is, such as per</b> <b>ienic measure</b> mist. king. asures should b and skin. nd at the end o r in case of dus e impermeable al on considera mmendation to kture.	e adhered to in handling the chemicals. f the work. t generation. e and resistant to the product/ the substance/ t ation of the penetration times, rates of diffusion a the glove material can be given for the product/ t	
Ger Do Do The Avc Wa Bre Filte Use Filte Use the prej Selo the Due che	neral protective and hyg not inhale dust / smoke / i not eat or drink while work with a usual precautionary mea bid contact with the eyes a sh hands during breaks a cathing equipment: er P3. a mask with particle filter of protection e glove material has to b paration. con of the glove material degradation e to missing tests no recon paration/ the chemical mix emical protection gloves ar eck protective gloves prior Material of gloves	<b>is, such as per</b> <b>ienic measure</b> mist. king. asures should b and skin. nd at the end o r in case of dus e impermeable al on considera mmendation to kture. re suitable, whic r to each use fo	e adhered to in handling the chemicals. f the work. t generation. e and resistant to the product/ the substance/ i ation of the penetration times, rates of diffusion a the glove material can be given for the product/ i ch are tested according to EN 374	



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NBR: acrylonitrile-butadiene rubber (0,11 mm) 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. >30 min · Eye/face protection eye protection (EN 166) · Body protection: Light weight protective clothing Environmental exposure controls Do not allow to enter drainage system, surface or ground water. SECTION 9: Physical and chemical properties · 9.1 Information on basic physical and chemical properties **General Information** Physical state Solid · Colour: According to product specification · Smell: Odourless Odour threshold: Not determined. Melting point/freezing point: Not determined · Boiling point or initial boiling point and boiling range 147 °C (141-32-2 n-butyl acrylate) · Flammability Not determined. · Lower and upper explosion limit Lower: Not determined. Upper: Not determined. · Flash point: Not applicable Decomposition temperature: Not determined. SADT · pH Not applicable. · Viscosity: Not applicable. Kinematic viscosity · dynamic: Not applicable. Solubility · Water: Insoluble Partition coefficient n-octanol/water (log value) Not determined. · Steam pressure: Not applicable. · Density and/or relative density Densitv Not determined Relative density Not determined. · Vapour density Not applicable. · 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 of explosive powder/air mixtures is possible. · Change in condition Evaporation rate Not applicable. (Contd. on page 6)



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<ul> <li>Information with regard to physical hazard</li> </ul>		
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	
<ul> <li>Self-reactive substances and mixtures</li> </ul>	Void	
· Pyrophoric liquids	Void	
· Pyrophoric solids	Void	
• Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit		
flammable gases in contact with water	Void	
· 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
- Risk of dust explosion if enriched with fine dust in presence of air **10.4 Conditions to avoid** Heat, flames and sparks.

· 10.5 Incompatible materials:

Strong oxidizers reducing agent Strong bases

Strong acids

· 10.6 Hazardous decomposition products: None

11.1 Infor Acute	mation or toxicity B	n hazard classes as defined in Regulation (EC) No 1272/2008 based on available data, the classification criteria are not met.
· LD/	LC50 valu	ues that are relevant for classification:
94-36-0 di	ibenzoyl j	peroxide
Oral	LD0	>2,000 mg/kg (mouse) (OECD 401)
Inhalative	LC0/4h	24.3 ppm (rat) (OECD 403)
141-32-2 ו	n-butyl ac	rylate
Oral	LD50	3,150 mg/kg (rat) (OECD 401)
Inhalative	LC50/4 h	10.3 mg/l (ATE)
· Seriou	s eye dar	<b>irritation</b> Based on available data, the classification criteria are not met. nage/irritation Based on available data, the classification criteria are not met. skin sensitisation Based on available data, the classification criteria are not m (Contd. on pag



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• 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. **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.

12.1 Toxicity	·	
· Aquatic t	oxicity:	
94-36-0 dibe	nzoyl peroxide	
EC50/72h	0.042 mg/l (algae) (OECD 201)	
EC50/48h	0.11 mg/l (daphnia) (OECD 202)	
LC50/96h	0.06 mg/l (fish) (OECD 203)	
ErC50 / 72 h	0.071 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)	
141-32-2 n-b	utyl acrylate	
EC50/72h	2.65 mg/l (algae) (OECD 201)	
EC50/48h	8.2 mg/l (daphnia) (OECD 202)	
LC50/96h	5.2 mg/l (fish) (OECD 203)	
NOEC / 21d	0.136 mg/l (daphnia) (OECD 211)	
NOEC / 96h	3.8 mg/l (fish) (EPA OTS 797.1400)	
12.2 Persiste	ence and degradability	
94-36-0 dibe	nzoyl peroxide	
Biodegradatio	on 71 % /28d (not defined) (OECD 301D)	
141-32-2 n-b	utyl acrylate	
	on 80-90 % /28d (not defined) (OECD 310)	
12.4 Mobility 12.5 Results PBT: Not vPvB: No 12.6 Endocr	t applicable. ine disrupting properties	
12.7 Other a Additiona Gener Do not	does not contain substances with endocrine disrupting properties. dverse effects al ecological information: al notes: allow undiluted product or large quantities of it to reach ground water,	water bodies
	e system. allow product to reach ground water, water bodies or sewage system.	(Contd. on pag



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Danger to drinking water if even small quantities leak into soil.

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### **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.

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport info	
14.1 UN number or ID number · ADR, IMDG, IATA	UN3077
14.2 UN proper shipping name · ADR	3077 ENVIRONMENTALLY HAZARDOU SUBSTANCE, SOLID, N.O.S. (Ethylen
·IMDG	dibenzoate, dibenzoyl peroxide) ENVIRONMENTALLY HAZARDOU SUBSTANCE, SOLID, N.O.S. (Ethylen dibenzoate, dibenzoyl peroxide), MARIN
·IATA	POLLUTANT ENVIRONMENTALLY HAZARDOU SUBSTANCE, SOLID, N.O.S. (Ethylen dibenzoate, dibenzoyl peroxide)
14.3 Transport hazard class(es)	
ADR	
· Class	9 (M7) Miscellaneous dangerous substance and articles. o
· Label	9 (M7) Miscellaneous dangerous substance and articles. 9
	9 (M7) Miscellaneous dangerous substance and articles. 9
· Label · IMDG, IATA · · · · · · · · · Class	and articles. 9
· Label · IMDG, IATA	and articles. 9 9 Miscellaneous dangerous substances an



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14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR): · Special marking (IATA):	Yes Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances an articles.
<ul> <li>Kemler Number:</li> <li>EMS Number:</li> <li>Stowage Category</li> <li>Stowage Code</li> </ul>	90 F-A,S-F A SW23 When transported in BK3 bul container, see 7.6.2.12 and 7.7.3.9.
14.7 Maritime transport in bulk according IMO instruments	to Not applicable.
· Transport/Additional information:	-
• ADR • Limited quantities (LQ) • Excepted quantities (EQ) • Transport category • Tunnel restriction code	5 kg Code: E1 Maximum net quantity per inner packaging 30 g Maximum net quantity per outer packaging 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 HAZARDOU SUBSTANCE, SOLID, N.O.S. (ETHYLEN DIBENZOATE, 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 women of child-bearing age must be observed. (Contd. on page 10)

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(Contd. of page 9) • **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
H226 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.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful 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
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 (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative Flam. Lig. 3: Flammable liquids – Category 3
Self-react. B: Self-reactive substances and mixtures – Type B
Org. Perox. B: Organic peroxides – Type B
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 Skin 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 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
· Sources
(EC) 1272/2008: classification, labelling and packaging of substances and mixtures
(EC) 12722006: Classification, labelling and packaging of substances and mixtures
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.