

**Safety data sheet  
according to 1907/2006/EC, Article 31**

Printing date 12.05.2022

Version number 6 (replaces version 5)

Revision: 12.05.2022

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- **1.1 Product identifier**
  - Trade name: **Technovit 2220**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

  - **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](mailto:technik.wehrheim@kulzer-dental.com)
- **1.4 Emergency telephone number:** Emergency CONTACT (24-Hour-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**

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 GB CLP regulation.

    - **Hazard pictograms**



GHS07

- **Signal word** Warning
- **Hazard-determining components of labelling:**

triethylen glycol dimethacrylate  
2-Propenoic acid, reaction products with pentaerythritol  
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide  
methyl methacrylate
- **Hazard statements**

H317 May cause an allergic skin reaction.
- **Precautionary statements**

P261 Avoid breathing mist/vapours/spray.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
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.

GB

(Contd. on page 2)

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 12.05.2022

Version number 6 (replaces version 5)

Revision: 12.05.2022

**Trade name: Technovit 2220**

(Contd. of page 1)

**SECTION 3: Composition/information on ingredients**

**3.2 Mixtures**

**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: 1245638-61-2 EC number: 629-850-6 Reg.nr.: 01-2119490003-49-xxxx	2-Propenoic acid, reaction products with pentaerythritol Eye Dam. 1, H318 Aquatic Chronic 2, H411 Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 ATE: LD50 oral: 540 mg/kg	≥0.25-<1%
CAS: 75980-60-8 EINECS: 278-355-8 Reg.nr.: 01-2119972295-29-xxxx	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Repr. 2, H361f Aquatic Chronic 2, H411 Skin Sens. 1B, H317	≥0.1-<0.25%
CAS: 80-62-6 EINECS: 201-297-1 Reg.nr.: 01-2119452498-28-xxxx	methyl methacrylate Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	≥0.1-<1%

**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**

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** 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**

CO<sub>2</sub>, 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

(Contd. on page 3)

**Safety data sheet  
according to 1907/2006/EC, Article 31**

Printing date 12.05.2022

Version number 6 (replaces version 5)

Revision: 12.05.2022

**Trade name: Technovit 2220**

(Contd. of page 2)

Carbon dioxide (CO<sub>2</sub>)

Carbon monoxide (CO)

phosphorus oxides (P<sub>x</sub>O<sub>y</sub>)**5.3 Advice for firefighters****Protective equipment:**

Wear self-contained breathing apparatus.

(EN 133)

**Additional information**

Cool endangered containers with water spray jet.

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

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Avoid contact with eyes and skin.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources

**6.2 Environmental precautions:**

Do not allow to enter the ground/soil.

Do not allow to enter drainage system, surface or ground water.

Keep dirty washing water for appropriate disposal.

**6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).

Send for recovery or disposal in suitable containers.

**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**

Prevent formation of aerosols.

Avoid contact with eyes and skin.

Ensure good ventilation/exhaustion at the workplace.

Keep away from heat and direct sunlight.

**Information about protection against explosions and fires:**

Protect from heat.

Keep ignition sources away - Do not smoke.

**Handling**

do not mix with

organic peroxides

amine

reducing agent

Strong oxidizers

Strong bases

Radical initiator

metals

**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: Store away from foodstuffs.**

(Contd. on page 4)

GB

**Safety data sheet**  
 according to 1907/2006/EC, Article 31

Printing date 12.05.2022

Version number 6 (replaces version 5)

Revision: 12.05.2022

**Trade name: Technovit 2220**

(Contd. of page 3)

- **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:**

**80-62-6 methyl methacrylate**

WEL (Great Britain)	Short-term value: 416 mg/m <sup>3</sup> , 100 ppm Long-term value: 208 mg/m <sup>3</sup> , 50 ppm
IOELV (European Union)	Short-term value: 100 ppm Long-term value: 50 ppm

· **DNELs**

**109-16-0 triethylen glycol dimethacrylate**

Oral	general population, long term, systemic	8.33 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	13.9 mg/Kg/d (not defined)
	general population, long term, systemic	8.33 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, systemic	48.5 mg/m <sup>3</sup> (not defined)
	general population, long term, systemic	14.5 mg/m <sup>3</sup> (not defined)

**75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**

Oral	general population, long term, systemic	0.0833 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	0.233 mg/Kg/d (not defined)
	general population, long term, systemic	0.0833 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, systemic	0.822 mg/m <sup>3</sup> (not defined)
	general population, long term, systemic	0.145 mg/m <sup>3</sup> (not defined)

**80-62-6 methyl methacrylate**

Oral	general population, long term, systemic	8.2 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	13.67 mg/Kg/d (not defined)
	general population, long term, systemic	8.2 mg/Kg/d (not defined)
Inhalative	worker industrial, acute, local	416 mg/m <sup>3</sup> (not defined)
	worker industrial, long term, systemic	348.4 mg/m <sup>3</sup> (not defined)
	worker industrial, long term, local	208 mg/m <sup>3</sup> (not defined)
	general population, acute, local	208 mg/m <sup>3</sup> (not defined)
	general population, long term, systemic	74.3 mg/m <sup>3</sup> (not defined)

· **PNECs**

**109-16-0 triethylen glycol dimethacrylate**

freshwater	0.016 mg/l (not defined)
marine water	0.002 mg/l (not defined)
sewage treatment plant	1.7 mg/l (not defined)
sediment, dry weight, freshwater	0.185 mg/Kg (not defined)
sediment, dry weight, marine water	0.018 mg/Kg (not defined)
soil, dry weight	0.027 mg/Kg (not defined)

**1245638-61-2 2-Propenoic acid, reaction products with pentaerythritol**

freshwater	0.003 mg/l (not defined)
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(Contd. on page 5)

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 12.05.2022

Version number 6 (replaces version 5)

Revision: 12.05.2022

**Trade name: Technovit 2220**

(Contd. of page 4)

marine water	0 mg/l (not defined)
sewage treatment plant	10 mg/l (not defined)
sediment, dry weight, freshwater	1.73 mg/Kg (not defined)
sediment, dry weight, marine water	0.173 mg/Kg (not defined)
soil, dry weight	0.34 mg/Kg (not defined)
<b>75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide</b>	
freshwater	0.0014 mg/l (not defined)
marine water	0.00014 mg/l (not defined)
sediment, dry weight, freshwater	0.115 mg/Kg (not defined)
sediment, dry weight, marine water	0.0115 mg/Kg (not defined)
soil, dry weight	0.0222 mg/Kg (not defined)
<b>80-62-6 methyl methacrylate</b>	
freshwater	0.94 mg/l (not defined)
marine water	0.094 mg/l (not defined)
sewage treatment plant	10 mg/l (not defined)
sediment, dry weight, freshwater	10.2 mg/Kg (not defined)
sediment, dry weight, marine water	0.102 mg/Kg (not defined)
soil, dry weight	1.48 mg/Kg (not defined)

· **Additional information:** The lists that were valid during the compilation were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see item 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures**

The usual precautionary measures should be adhered to in handling the chemicals.

Do not eat or drink while working.

Avoid contact with the eyes and skin.

Instantly remove any soiled and impregnated garments.

Keep away from foodstuffs, beverages and food.

Wash hands during breaks and at the end of the work.

· **Breathing equipment:**

Use breathing protection in case of insufficient ventilation.

Filter A/P2.

· **Hand protection**

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

chemical protection gloves are suitable, which are tested according to EN 374

Check protective gloves prior to each use for their proper condition.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

NBR: acrylonitrile-butadiene rubber (0,11 mm)

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

(Contd. on page 6)

**Safety data sheet  
according to 1907/2006/EC, Article 31**

Printing date 12.05.2022

Version number 6 (replaces version 5)

Revision: 12.05.2022

**Trade name: Technovit 2220**

(Contd. of page 5)

- >30 min
- **Eye/face protection** eye protection (EN 166)
- **Body protection:** Light weight protective clothing
- **Environmental exposure controls**  
Do not allow to enter the ground/soil.  
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** Fluid
- **Colour:** Different according to colour
- **Smell:** Odourless
- **Odour threshold:** Not determined.
- **Melting point/freezing point:** Not determined
- **Boiling point or initial boiling point and boiling range** 100 °C (80-62-6 methyl methacrylate)
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
  - **Lower:** Not determined.
  - **Upper:** Not determined.
- **Flash point:** 10 °C (80-62-6 methyl methacrylate)
- **Ignition temperature:** 255 °C (109-16-0 triethylen glycol dimethacrylate)
- **Decomposition temperature:** Not determined.

· **SAPT**

Technovit 2220 >300 °C

· **SADT**

- **pH** Not determined.
- **Viscosity:**
  - **Kinematic viscosity** Not determined.
  - **dynamic:** Not determined.
- **Solubility**
  - **Water:** Not miscible or difficult to mix
- **Partition coefficient n-octanol/water (log value)** Not determined.
- **Steam pressure at 20 °C:** 37 hPa (80-62-6 methyl methacrylate)
- **Density and/or relative density**
  - **Density** Not determined
  - **Relative density** Not determined.
  - **Vapour density** Not determined.

· **9.2 Other information**

No further relevant information available.

· **Appearance:**

· **Form:** Fluid

· **Important information on protection of health and environment, and on safety.**

- **Self-inflammability:** Product is not selfigniting.
- **Explosive properties:** Product is not explosive.

· **Change in condition**

· **Evaporation rate** Not determined.

(Contd. on page 7)



**Safety data sheet**  
 according to 1907/2006/EC, Article 31

Printing date 12.05.2022

Version number 6 (replaces version 5)

Revision: 12.05.2022

**Trade name: Technovit 2220**

(Contd. of page 6)

**Information with regard to physical hazard classes**

· <b>Explosives</b>	Void
· <b>Flammable gases</b>	Void
· <b>Aerosols</b>	Void
· <b>Oxidising gases</b>	Void
· <b>Gases under pressure</b>	Void
· <b>Flammable liquids</b>	Void
· <b>Flammable solids</b>	Void
· <b>Self-reactive substances and mixtures</b>	Void
· <b>Pyrophoric liquids</b>	Void
· <b>Pyrophoric solids</b>	Void
· <b>Self-heating substances and mixtures</b>	Void
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Void
· <b>Oxidising liquids</b>	Void
· <b>Oxidising solids</b>	Void
· <b>Organic peroxides</b>	Void
· <b>Corrosive to metals</b>	Void
· <b>Desensitised explosives</b>	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** Exothermic polymerisation
- **10.4 Conditions to avoid** Heat, flames and sparks.
- **10.5 Incompatible materials:**
  - amine
  - metals
  - organic peroxides
  - Radical initiator
  - reducing agent
  - Strong bases
  - Strong oxidizers
- **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.

**LD/LC50 values that are relevant for classification:**

**109-16-0 triethylen glycol dimethacrylate**

Oral	LD50	8,300 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (mouse)

**1245638-61-2 2-Propenoic acid, reaction products with pentaerythritol**

Oral	LD50	540 mg/kg (ATE) 540 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)

(Contd. on page 8)

**Safety data sheet**  
 according to 1907/2006/EC, Article 31

Printing date 12.05.2022

Version number 6 (replaces version 5)

Revision: 12.05.2022

**Trade name: Technovit 2220**

(Contd. of page 7)

**75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**

Oral	LD50	>5,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)

**80-62-6 methyl methacrylate**

Oral	LD50	~7,900 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (guinea pig) (OECD 402)
Inhalative	LC50/4 h	29.8 mg/l (rat)

- **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**  
May cause an allergic skin reaction.
- **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**

75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

List II

**SECTION 12: Ecological information**

**12.1 Toxicity**

- **Aquatic toxicity:**

**109-16-0 triethylen glycol dimethacrylate**

EC50/21d	51.9 mg/L (daphnia) (OECD 211)
LC50/96h	16.4 mg/l (fish) (OECD 203)
NOEC / 21d	32 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	>100 mg/l (algae) (OECD 201)
NOEC / 72h	18.6 mg/l (algae) (OECD 201)
EbC50 / 72h	72.8 mg/l (algae) (OECD 201)

**1245638-61-2 2-Propenoic acid, reaction products with pentaerythritol**

EC50/48h	13 mg/l (daphnia) (OECD 202)
LC50/96h	3.2 mg/l (fish) (OECD 203)
NOEC / 96h	2.2 mg/l (fish) (OECD 203)
NOELR	10 mg/L /96h (algae) (OECD 201)

**75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**

EC50/48h	10,100 mg/l (algae) 3.53 mg/l (daphnia) (OECD 202)
LC50/96h	1.4 mg/l (fish) (OECD 203)
ErC50 / 72 h	>2.01 mg/l (algae) (OECD 201)
ErC10/72h	1.56 mg/L (algae) (OECD 201)

**80-62-6 methyl methacrylate**

EC50/21d	49 mg/L (daphnia) (OECD 211)
EC50/48h	69 mg/l (daphnia) (EPA OTS 797.1300)

(Contd. on page 9)



**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 12.05.2022

Version number 6 (replaces version 5)

Revision: 12.05.2022

**Trade name: Technovit 2220**

(Contd. of page 8)

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 / 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)

**· 12.2 Persistence and degradability**

**109-16-0 triethylen glycol dimethacrylate**

Biodegradation 85 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)

**75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**

Biodegradation 0-10 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)

**80-62-6 methyl methacrylate**

Biodegradation 94 % /14d (not defined) (OECD 301C)

**· 12.3 Bioaccumulative potential**

**75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide**

Bloconcentration factor (BCF) 47-55 (not defined)

**· 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 Endocrine disrupting properties**

For information on endocrine disrupting properties see section 11.

**· 12.7 Other adverse effects**

**· Additional ecological information:**

**· General notes:**

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.  
 Danger to drinking water if even extremely small quantities leak into soil.

**SECTION 13: Disposal considerations**

**· 13.1 Waste treatment methods**

· **Recommendation** Disposal must be made according to official regulations.

**· Uncleaned packagings:**

· **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

**· 14.1 UN number or ID number**

· **ADR, IMDG, IATA** Void

**· 14.2 UN proper shipping name**

· **ADR, IMDG, IATA** Void

(Contd. on page 10)

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 12.05.2022

Version number 6 (replaces version 5)

Revision: 12.05.2022

**Trade name: Technovit 2220**

(Contd. of page 9)

· <b>14.3 Transport hazard class(es)</b>	
· <b>ADR, ADN, IMDG, IATA</b>	
· <b>Class</b>	Void
· <b>14.4 Packing group</b>	
· <b>ADR, IMDG, IATA</b>	Void
· <b>14.5 Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>14.6 Special precautions for user</b>	Not applicable.
· <b>14.7 Maritime transport in bulk according to IMO instruments</b>	Not applicable.
· <b>Transport/Additional information:</b>	-
· <b>UN "Model Regulation":</b>	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.
  - H302 Harmful if swallowed.
  - H315 Causes skin irritation.
  - H317 May cause an allergic skin reaction.
  - H318 Causes serious eye damage.
  - H335 May cause respiratory irritation.
  - H361f Suspected of damaging fertility.
  - H411 Toxic to aquatic life with long lasting effects.
- **Abbreviations and acronyms:**
  - SADT: Self Accelerating Decomposition Temperature
  - 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
  - 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 (GB REACH)
  - PNEC: Predicted No-Effect Concentration (GB REACH)
  - LC50: Lethal concentration, 50 percent

(Contd. on page 11)

**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 12.05.2022

Version number 6 (replaces version 5)

Revision: 12.05.2022

**Trade name: Technovit 2220**

(Contd. of page 10)

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Flam. Liq. 2: Flammable liquids – Category 2*

*Acute Tox. 4: Acute toxicity – Category 4*

*Skin Irrit. 2: Skin corrosion/irritation – Category 2*

*Eye Dam. 1: Serious eye damage/eye irritation – Category 1*

*Skin Sens. 1: Skin sensitisation – Category 1*

*Skin Sens. 1B: Skin sensitisation – Category 1B*

*Repr. 2: Reproductive toxicity – Category 2*

*STOT SE 3: Specific target organ toxicity (single exposure) – Category 3*

*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) 1907/2006: GB 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.*

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