

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

Printing date 04.03.2021

Version number 2

Revision: 04.03.2021

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

- **1.1 Product identifier**
 - Trade name: **Technovit 2021 LC fast**
- **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** Resin for metallographic 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-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 Irrit. 2 H315 Causes skin irritation.
 Eye Irrit. 2 H319 Causes serious eye irritation.
 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:**
 methacrylic acid, monoester with propane-1,2-diol
 2-hydroxyethyl methacrylate
 triethylen glycol dimethacrylate
 ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate
- **Hazard statements**
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H317 May cause an allergic skin reaction.
- **Precautionary statements**
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P302+P352 IF ON SKIN: Wash with plenty of soap and water.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
 P337+P313 If eye irritation persists: Get medical advice/attention.
- **2.3 Other hazards -**
 - **Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.

(Contd. on page 2)

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

Printing date 04.03.2021

Version number 2

Revision: 04.03.2021

Trade name: Technovit 2021 LC fast

· **vPvB:** Not applicable.

(Contd. of page 1)

SECTION 3: Composition/information on ingredients

· **3.2 Chemical characterisation: Mixtures**

· **Description:** -

· **Dangerous components:**

CAS: 27813-02-1 EINECS: 248-666-3 Reg.nr.: 01-2119490226-37-xxxx	methacrylic acid, monoester with propane-1,2-diol Eye Irrit. 2, H319; Skin Sens. 1, H317	25-50%
CAS: 868-77-9 EINECS: 212-782-2 Reg.nr.: 01-2119490169-29-xxxx	2-hydroxyethyl methacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	10-25%
CAS: 7534-94-3 EINECS: 231-403-1 Reg.nr.: 01-2119886505-27-xxxx	Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 Aquatic Chronic 3, H412	≥10-<20%
CAS: 109-16-0 EINECS: 203-652-6 Reg.nr.: 01-2119969287-21-xxxx	triethylen glycol dimethacrylate Skin Sens. 1B, H317	≥1-≤5%
CAS: 84434-11-7 EINECS: 282-810-6 Reg.nr.: 01-2119987994-10-0000	ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate Aquatic Chronic 2, H411 Skin Sens. 1B, H317	≥0.25-<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**

· **General information**

Instantly remove any clothing soiled by the product.

Personal protection for the First Aider.

· **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.

· **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, sand, extinguishing powder. Do not use water.

(Contd. on page 3)

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

Printing date 04.03.2021

Version number 2

Revision: 04.03.2021

Trade name: Technovit 2021 LC fast

(Contd. of page 2)

- **For safety reasons unsuitable extinguishing agents** Water.
- **5.2 Special hazards arising from the substance or mixture**
Formation of toxic gases is possible during heating or in case of fire.
In case of fire the following can be released:
Carbon dioxide (CO₂)
Carbon monoxide (CO)
phosphorus oxides (P_xO_y)
Nitrogen oxides (NO_x)
- **5.3 Advice for firefighters**
 - **Protective equipment:** Wear self-contained breathing apparatus.
 - **Additional information -**

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:**
Inform respective authorities in case product reaches water or sewage system.
Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Dispose of the material collected according to regulations.
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 7 for information on safe handling
See Section 8 for information on personal protection equipment.
See Section 13 for information on disposal.
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SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Avoid contact with eyes and skin.
Do not seal containers gas-tight.
Prevent formation of aerosols.
 - **Information about protection against explosions and fires:**
Keep ignition sources away - Do not smoke.
Protect from heat.
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.

GB
(Contd. on page 4)

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

Printing date 04.03.2021

Version number 2

Revision: 04.03.2021

Trade name: Technovit 2021 LC fast

(Contd. of page 3)

SECTION 8: Exposure controls/personal protection

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.

Not required.

DNELs

27813-02-1 methacrylic acid, monoester with propane-1,2-diol

Oral	ge.pop., l.te, syst.	2.5 mg/Kg (nd)
Dermal	worker industr., l.te., syst.	4.2 mg/Kg/d (nd)
	ge.pop., l.te, syst.	2.5 mg/Kg/d (nd)
Inhalative	worker industr., l.te., syst.	14.7 mg/m ³ (nd)
	ge.pop., l.te, syst.	8.8 mg/m ³ (nd)

868-77-9 2-hydroxyethyl methacrylate

Oral	ge.pop., l.te, syst.	0.83 mg/Kg (nd)
Dermal	worker industr., l.te., syst.	1.3 mg/Kg/d (nd)
	ge.pop., l.te, syst.	0.83 mg/Kg/d (nd)
Inhalative	worker industr., l.te., syst.	4.9 mg/m ³ (nd)
	ge.pop., l.te, syst.	2.9 mg/m ³ (nd)

7534-94-3 Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

Oral	ge.pop., l.te, syst.	0.21 mg/Kg (nd)
Dermal	worker industr., l.te., syst.	0.35 mg/Kg/d (nd)
	ge.pop., l.te, syst.	0.21 mg/Kg/d (nd)
Inhalative	worker industr., l.te., syst.	1.22 mg/m ³ (nd)
	ge.pop., l.te, syst.	0.36 mg/m ³ (nd)

109-16-0 triethylen glycol dimethacrylate

Oral	ge.pop., l.te, syst.	8.33 mg/Kg (nd)
Dermal	worker industr., l.te., syst.	13.9 mg/Kg/d (nd)
	ge.pop., l.te, syst.	8.33 mg/Kg/d (nd)
Inhalative	worker industr., l.te., syst.	48.5 mg/m ³ (nd)
	ge.pop., l.te, syst.	14.5 mg/m ³ (nd)

84434-11-7 ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate

Oral	ge.pop., l.te, syst.	0.5 mg/Kg (nd)
Dermal	worker industr., l.te., syst.	1.4 mg/Kg/d (nd)
	ge.pop., l.te, syst.	0.5 mg/Kg/d (nd)
Inhalative	worker profess., l.te., syst.	4.93 mg/m ³ (nd)
	ge.pop., l.te, syst.	0.87 mg/m ³ (nd)

PNECs

27813-02-1 methacrylic acid, monoester with propane-1,2-diol

freshwater	0.904 mg/l (nd)
marine water	0.904 mg/l (nd)
STP	10 mg/l (nd)
sedim., dw, fre.wat.	6.28 mg/Kg (nd)
sedim., dw, mar.wat.	6.28 mg/Kg (nd)

(Contd. on page 5)

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

Printing date 04.03.2021

Version number 2

Revision: 04.03.2021

Trade name: Technovit 2021 LC fast

(Contd. of page 4)

soil,dw	0.727 mg/Kg (nd)
868-77-9 2-hydroxyethyl methacrylate	
freshwater	0.482 mg/l (nd)
marine water	0.482 mg/l (nd)
STP	10 mg/l (nd)
sedim., dw, fre.wat.	3.79 mg/Kg (nd)
sedim., dw, mar.wat.	3.79 mg/Kg (nd)
soil,dw	0.476 mg/Kg (nd)
7534-94-3 Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	
freshwater	0.00233 mg/l (nd)
marine water	0.00233 mg/l (nd)
STP	2.45 mg/l (nd)
sedim., dw, fre.wat.	1.2 mg/Kg (nd)
sedim., dw, mar.wat.	0.12 mg/Kg (nd)
soil,dw	0.239 mg/Kg (nd)
109-16-0 triethylen glycol dimethacrylate	
freshwater	0.016 mg/l (nd)
marine water	0.002 mg/l (nd)
STP	1.7 mg/l (nd)
sedim., dw, fre.wat.	0.185 mg/Kg (nd)
sedim., dw, mar.wat.	0.018 mg/Kg (nd)
soil,dw	0.027 mg/Kg (nd)
84434-11-7 ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	
freshwater	0.00101 mg/l (nd)
marine water	0.000101 mg/l (nd)
sedim., dw, fre.wat.	0.24 mg/Kg (nd)
sedim., dw, mar.wat.	0.024 mg/Kg (nd)
soil,dw	0.0475 mg/Kg (nd)

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

· **8.2 Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.
 Instantly remove any soiled and impregnated garments.
 Wash hands during breaks and at the end of the work.
 Avoid contact with the eyes and skin.

· **Breathing equipment:**

Use breathing protection in case of insufficient ventilation.
 Filter A/P2.

· **Protection of hands:**

If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.
 The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
 Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 6)

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

Printing date 04.03.2021

Version number 2

Revision: 04.03.2021

Trade name: Technovit 2021 LC fast

(Contd. of page 5)

- **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.
 >30 min
- **Eye protection:** Safety glasses
- **Body protection:** Light weight protective clothing

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

- **Form:** Fluid
- **Colour:** Colourless
- **Smell:** Characteristic
- **Odour threshold:** Not determined.

· **pH-value:** Not determined.

· **Change in condition**

- **Melting point/freezing point:** Not determined
- **Initial boiling point and boiling range:** Not determined

· **Flash point:** Not applicable

· **Inflammability (solid, gaseous)** Not applicable.

· **Decomposition temperature:** Not determined.

· **SAPT**

Technovit 2021 LC fast >75 °C

· **Self-inflammability:** Product is not selfigniting.

· **Explosive properties:** In use, may form flammable/explosive vapour-air mixture.

· **Critical values for explosion:**

- **Lower:** Not determined.
- **Upper:** Not determined.

· **Steam pressure:** Not determined.

· **Density**

- **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/water:** Not determined.

· **Viscosity:**

· **dynamic:** Not determined.

(Contd. on page 7)

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

Printing date 04.03.2021

Version number 2

Revision: 04.03.2021

Trade name: Technovit 2021 LC fast

(Contd. of page 6)

· **kinematic:** Not determined.

· **9.2 Other information** 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:** Protect from heat and direct sunlight.
- **10.3 Possibility of hazardous reactions** Exothermic polymerisation
- **10.4 Conditions to avoid**
 Heat, flames and sparks.
 moisture exposure
- **10.5 Incompatible materials:**
 amine
 organic peroxides
 Radical initiator
 reducing agent
 Strong bases
 Strong oxidizers
 Strong acids
- **10.6 Hazardous decomposition products:** None
- **Additional information:** -

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
 - **Acute toxicity** Based on available data, the classification criteria are not met.

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

27813-02-1 methacrylic acid, monoester with propane-1,2-diol

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

Dermal LD50 >5,000 mg/kg (rab)

868-77-9 2-hydroxyethyl methacrylate

Oral LD50 5,564 mg/kg (rat)

Dermal LD50 >5,000 mg/kg (rabbit)

7534-94-3 Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

Oral LD50 3,160 mg/kg (rat)

109-16-0 triethylen glycol dimethacrylate

Oral LD50 8,300 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (mouse)

84434-11-7 ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate

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

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

- **Primary irritant effect:**
 - **Skin corrosion/irritation**
 Causes skin irritation.
 - **Serious eye damage/irritation**
 Causes serious eye irritation.

(Contd. on page 8)

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

Printing date 04.03.2021

Version number 2

Revision: 04.03.2021

Trade name: Technovit 2021 LC fast

(Contd. of page 7)

- **Respiratory or skin sensitisation**
 May cause an allergic skin reaction.
- **Additional toxicological information:**
 - **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
 - **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.

SECTION 12: Ecological information

· **12.1 Toxicity**

· **Aquatic toxicity:**

27813-02-1 methacrylic acid, monoester with propane-1,2-diol

EC50/72h	>97.2 mg/l (algae)
EC50/48h	>143 mg/l (daphnia) (OECD 202)
NOEC / 21d	45.2 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	>97.2 mg/l (algae) (OECD 201)
NOEC / 72h	>97.2 mg/l (algae) (OECD 201)
LC50/48h	483 mg/L (fish)

868-77-9 2-hydroxyethyl methacrylate

EC50/21d	90.1 mg/L (daphnia) (OECD 211)
EC50/48h	380 mg/l (daphnia) (OECD 202)
LC50/96h	>100 mg/l (fish) (OECD 203)
NOEC / 21d	24.1 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	836 mg/l (algae) (OECD 201)
NOEC / 72h	400 mg/l (algae) (OECD 201)
NOEC / 48h	171 mg/l (daphnia) (OECD 202)
EbC50 / 72h	345 mg/l (algae) (OECD 201)

7534-94-3 Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

EC50/72h	2.28 mg/l (algae)
EC50/21d	0.658 mg/L (daphnia) (OECD 211)
EC50/48h	>2.57 mg/l (daphnia) (OECD 202)
LC50/96h	1.79 mg/l (fish) (OECD 203)
NOEC / 21d	0.233 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	2.28 mg/l (algae) (OECD 201)
NOEC / 72h	0.251 mg/l (algae) (OECD 201)
NOEC / 96h	0.97 mg/l (fish) (OECD 203)
NOEC / 48h	2.57 mg/l (daphnia) (OECD 202)
ErC10/72h	0.751 mg/L (algae) (OECD 201)

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)

(Contd. on page 9)

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

Printing date 04.03.2021

Version number 2

Revision: 04.03.2021

Trade name: Technovit 2021 LC fast

(Contd. of page 8)

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)

84434-11-7 ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate

EC50/72h	1.01 mg/l (algae)
EC50/48h	2.26 mg/l (daphnia) (OECD 202)
LC50/96h	1.89 mg/l (fish) (OECD 203)
ErC50 / 72 h	1.01 mg/l (algae) (OECD 201)
NOEC / 96h	≥1.29 mg/l (fish) (OECD 203)

12.2 Persistence and degradability

27813-02-1 methacrylic acid, monoester with propane-1,2-diol

Biodegradation	81 % /28d (nd) (OECD 301C)
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868-77-9 2-hydroxyethyl methacrylate

Biodegradation	92-100 % /14d (nd) (OECD 301C)
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7534-94-3 Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

Biodegradation	70 % /28d (nd) (OECD 310)
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109-16-0 triethylen glycol dimethacrylate

Biodegradation	85 % /28d (nd) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)
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84434-11-7 ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate

Biodegradation	<10 % /28d (nd) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)
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12.3 Bioaccumulative potential

7534-94-3 Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate

Bloconcentration factor (BCF)	37 (nd) (OECD 305)
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12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

Harmful to aquatic organisms

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

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.

Disposal must be made according to official regulations.

Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations.

(Contd. on page 10)

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

Printing date 04.03.2021

Version number 2

Revision: 04.03.2021

Trade name: Technovit 2021 LC fast

Non contaminated packagings can be used for recycling.

(Contd. of page 9)

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:	Not applicable.
· 14.6 Special precautions for user	Not applicable.
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	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.
 - **Seveso category** not assigned
 - **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.
- **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**
 H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H411 Toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

(Contd. on page 11)

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

Printing date 04.03.2021

Version number 2

Revision: 04.03.2021

Trade name: Technovit 2021 LC fast

(Contd. of page 10)

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
 - 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 (REACH)
 - PNEC: Predicted No-Effect Concentration (REACH)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
 - 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
 - Skin Sens. 1B: Skin sensitisation – Category 1B
 - 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
 - Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
- * Data compared to the previous version altered.**

GB