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

Printing date 17.06.2022 Version number 3 Revision: 17.06.2022

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 GB 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 17.06.2022 *Version number 3* *Revision: 17.06.2022*

Trade name: Technovit 2021 LC fast

(Contd. of page 1)

· **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

· **3.2 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-<15%
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 17.06.2022 *Version number 3* *Revision: 17.06.2022*

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 (PxOy)
Nitrogen oxides (NOx)
· **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**
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.
-

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.

· **Handling**
do not mix with
amine
organic peroxides
Radical initiator
reducing agent
Strong bases
Strong oxidizers

(Contd. on page 4)

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

Printing date 17.06.2022 *Version number 3* *Revision: 17.06.2022*

Trade name: Technovit 2021 LC fast

(Contd. of page 3)

Strong acids

· **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.

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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	general population, long term, systemic	2.5 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	4.2 mg/Kg/d (not defined)
	general population, long term, systemic	2.5 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, systemic	14.7 mg/m3 (not defined)
	general population, long term, systemic	8.8 mg/m3 (not defined)
868-77-9 2-hydroxyethyl methacrylate		
Oral	general population, long term, systemic	0.83 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	1.3 mg/Kg/d (not defined)
	general population, long term, systemic	0.83 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, systemic	4.9 mg/m3 (not defined)
	general population, long term, systemic	2.9 mg/m3 (not defined)
7534-94-3 Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate		
Oral	general population, long term, systemic	0.21 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	0.35 mg/Kg/d (not defined)
	general population, long term, systemic	0.21 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, systemic	1.22 mg/m3 (not defined)
	general population, long term, systemic	0.36 mg/m3 (not defined)
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/m3 (not defined)
	general population, long term, systemic	14.5 mg/m3 (not defined)
84434-11-7 ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate		
Oral	general population, long term, systemic	0.5 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	1.4 mg/Kg/d (not defined)
	general population, long term, systemic	0.5 mg/Kg/d (not defined)
Inhalative	worker professional, long term, systemic	4.93 mg/m3 (not defined)

(Contd. on page 5)

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

Printing date 17.06.2022 *Version number 3* *Revision: 17.06.2022*

Trade name: Technovit 2021 LC fast

(Contd. of page 4)

	general population, long term, systemic	0.87 mg/m3 (not defined)

· **PNECs**

27813-02-1 methacrylic acid, monoester with propane-1,2-diol	
freshwater	0.904 mg/l (not defined)
marine water	0.904 mg/l (not defined)
sewage treatment plant	10 mg/l (not defined)
sediment, dry weight, freshwater	6.28 mg/Kg (not defined)
sediment, dry weight, marine water	6.28 mg/Kg (not defined)
soil, dry weight	0.727 mg/Kg (not defined)
868-77-9 2-hydroxyethyl methacrylate	
freshwater	0.482 mg/l (not defined)
marine water	0.482 mg/l (not defined)
sewage treatment plant	10 mg/l (not defined)
sediment, dry weight, freshwater	3.79 mg/Kg (not defined)
sediment, dry weight, marine water	3.79 mg/Kg (not defined)
soil, dry weight	0.476 mg/Kg (not defined)
7534-94-3 Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	
freshwater	0.00233 mg/l (not defined)
marine water	0.000233 mg/l (not defined)
sewage treatment plant	2.45 mg/l (not defined)
sediment, dry weight, freshwater	1.2 mg/Kg (not defined)
sediment, dry weight, marine water	0.12 mg/Kg (not defined)
soil, dry weight	0.239 mg/Kg (not defined)
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)
84434-11-7 ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	
freshwater	0.00101 mg/l (not defined)
marine water	0.000101 mg/l (not defined)
sediment, dry weight, freshwater	0.24 mg/Kg (not defined)
sediment, dry weight, marine water	0.024 mg/Kg (not defined)
soil, dry weight	0.0475 mg/Kg (not defined)

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

· **8.2 Exposure controls**
· **Individual protection measures, such as 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.

(Contd. on page 6)

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

Printing date 17.06.2022 *Version number 3* *Revision: 17.06.2022*

Trade name: Technovit 2021 LC fast

(Contd. of page 5)

· **Breathing equipment:**
Use breathing protection in case of insufficient ventilation.
Filter A/P2.
· **Hand protection**
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
· **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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
>30 min
· **Eye/face protection** Safety glasses
· **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.

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SECTION 9: Physical and chemical properties

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

· **Physical state**	Fluid
· **Colour:**	Colourless
· **Smell:**	Characteristic
· **Odour threshold:**	Not determined.
· **Melting point/freezing point:**	Not determined
· **Boiling point or initial boiling point and boiling range**	209 °C (27813-02-1 methacrylic acid, monoester with propane-1,2-diol)
· **Flammability**	Not applicable.
· **Lower and upper explosion limit**	
· **Lower:**	Not determined.
· **Upper:**	Not determined.
· **Flash point:**	106 °C (868-77-9 2-hydroxyethyl methacrylate)
· **Ignition temperature:**	355 °C (27813-02-1 methacrylic acid, monoester with propane-1,2-diol)
· **Decomposition temperature:**	Not determined.

· **SAPT**

Technovit 2021 LC fast	>75 °C

· **SADT**	
· **pH**	Not determined.
· **Viscosity:**	
· **Kinematic viscosity**	Not determined.
· **dynamic:**	Not determined.

(Contd. on page 7)

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

Printing date 17.06.2022 *Version number 3* *Revision: 17.06.2022*

Trade name: Technovit 2021 LC fast

(Contd. of page 6)

· **Solubility**	
· **Water:**	Not miscible or difficult to mix
· **Partition coefficient n-octanol/water (log value)**	Not determined.
· **Steam pressure at 20 °C:**	0.1 hPa
· **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:**	In use, may form flammable/explosive vapour-air mixture.
· **Change in condition**	
· **Evaporation rate**	Not determined.
· **Information with regard to physical hazard classes**	
· **Explosives**	Void
· **Flammable gases**	Void
· **Aerosols**	Void
· **Oxidising gases**	Void
· **Gases under pressure**	Void
· **Flammable liquids**	Void
· **Flammable solids**	Void
· **Self-reactive substances and mixtures**	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:** 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

(Contd. on page 8)

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

Printing date 17.06.2022 *Version number 3* *Revision: 17.06.2022*

Trade name: Technovit 2021 LC fast

(Contd. of page 7)

Radical initiator
reducing agent
Strong bases
Strong oxidizers
Strong acids

· **10.6 Hazardous decomposition products:** None
· **Additional information:** -

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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:		
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 (rabbit)
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)

· **Skin corrosion/irritation** Causes skin irritation.
· **Serious eye damage/irritation** Causes serious eye irritation.
· **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
None of the ingredients is listed.

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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)

(Contd. on page 9)

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

Printing date 17.06.2022 *Version number 3* *Revision: 17.06.2022*

Trade name: Technovit 2021 LC fast

(Contd. of page 8)

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)
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 (not defined) (OECD 301C)
868-77-9 2-hydroxyethyl methacrylate	
Biodegradation	92-100 % /14d (not defined) (OECD 301C)
7534-94-3 Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	
Biodegradation	70 % /28d (not defined) (OECD 310)

(Contd. on page 10)

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

Printing date 17.06.2022 *Version number 3* *Revision: 17.06.2022*

Trade name: Technovit 2021 LC fast

(Contd. of page 9)

109-16-0 triethylen glycol dimethacrylate	
Biodegradation	85 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)
84434-11-7 ethyl phenyl(2,4,6-trimethylbenzoyl)phosphinate	
Biodegradation	<10 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)

· **12.3 Bioaccumulative potential**	
7534-94-3 Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate	
Bioconcentration factor (BCF)	37 (not defined) (OECD 305)

· **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**
The product does not contain substances with endocrine disrupting properties.
· **12.7 Other adverse effects**
· **Additional ecological information:**
· **General notes:**
Harmful to aquatic organisms
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**
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.
Non contaminated packagings can be used for recycling.

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
· **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.

(Contd. on page 11)

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

Printing date 17.06.2022 *Version number 3* *Revision: 17.06.2022*

Trade name: Technovit 2021 LC fast

(Contd. of page 10)

· **14.6 Special precautions for user**	Not applicable.
· **14.7 Maritime transport in bulk according to IMO instruments**	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

· **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.

· **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 (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
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

(Contd. on page 12)

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

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(Contd. of page 11)

· ***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.***