

Printing date 14.04.2022 Version number 7 (replaces version 6) Revision: 14.04.2022

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

- · 1.1 Product identifier
 - Trade name: Technovit 7200 VLC
- · 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 histological examinations
- · 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.

STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 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:

2-hydroxyethyl methacrylate

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

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

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.

(Contd. on page 2)



Printing date 14.04.2022 Version number 7 (replaces version 6) Revision: 14.04.2022

Trade name: Technovit 7200 VLC

(Contd. of page 1)

· 2.3 Other hazards

- · Results of PBT and vPvB assessment
 - · PBT: Not applicable.
 - vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Dangerous components:		
CAS: 7534-94-3 EINECS: 231-403-1 Reg.nr.: 01-2119886505-27-xxxx	Exo-1,7,7-trimethyIbicyclo[2.2.1]hept-2-yl methacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3,	50-75%
	H335 Aquatic Chronic 3, H412	
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	25-50%
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	≥0.25-<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.

Take affected persons into the open air.

· After inhalation

In case of unconsciousness bring patient into stable side position for transport.

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

· Áfter 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 CO2, sand, extinguishing powder. Do not use water.

(Contd. on page 3)



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

Printing date 14.04.2022

Version number 7 (replaces version 6)

LG

Trade name: Technovit 7200 VLC

(Contd. of page 2)

· 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

Carbon dioxide (CO2)

Carbon monoxide (CO)

phosphorus oxides (PxOy)

5.3 Advice for firefighters

- · Protective equipment: Wear self-contained breathing apparatus.
- · Additional information Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and skin.

Do not breathe vapor / mist / gas.

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

Keep away from ignition sources

6.2 Environmental precautions:

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

Do not allow to enter the ground/soil.

6.3 Methods and material for containment and cleaning up:

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

· 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

Avoid contact with eyes and skin.

Do not breathe vapor / mist / gas.

Prevent formation of aerosols.

Keep away from heat and direct sunlight.

Information about protection against explosions and fires:

Fumes can combine with air to form an explosive mixture.

Protect against electrostatic charges.

Do not spray on flames or red-hot objects.

Keep ignition sources away - Do not smoke.

Handling

do not mix with

organic peroxides

amine

metals

reducing agent

Strong oxidizers

Radical initiator

· 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.

(Contd. on page 4)



Printing date 14.04.2022 Version number 7 (replaces version 6) Revision: 14.04.2022

Trade name: Technovit 7200 VLC

(Contd. of page 3)

· Further information about storage conditions:

Do not seal container gastight.

Protect from humidity and keep away from water.

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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Not required.

· PNECs

	·DNELs		
	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)
	868-77-9 2	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)
ge		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)
	75980-60-	8 diphenyl(2,4,6-trimethylbenzoyl)pho	sphine oxide
Oral general population, long term, systemic 0.0833 mg/Kg (not o		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/m3 (not defined)
		general population, long term, systemic	0.145 mg/m3 (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

sewage treatment plant
sediment, dry weight, freshwater
sediment, dry weight, marine water
soil, dry weight

0.000233 mg/l (not defined)
2.45 mg/l (not defined)
1.2 mg/Kg (not defined)
0.12 mg/Kg (not defined)
0.239 mg/Kg (not defined)

868-77-9 2-hydroxyethyl methacrylate

freshwater

marine water

sewage treatment plant
sediment, dry weight, freshwater
sediment, dry weight, marine water

sediment, dry weight, marine water
sediment, dry weight, marine water

0.482 mg/l (not defined)

10 mg/l (not defined)

3.79 mg/Kg (not defined)

3.79 mg/Kg (not defined)

(Contd. on page 5)



Printing date 14.04.2022 Version number 7 (replaces version 6) Revision: 14.04.2022

Trade name: Technovit 7200 VLC

	(Contd. of page 4)
soil, dry weight	0.476 mg/Kg (not defined)
75980-60-8 diphenyl(2,4,6-trimeth	y/benzoy/)phosphine oxide
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)

[·] 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.

Do not inhale gases / fumes / aerosols.

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.

· Hand protection

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

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

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 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 Fluid

· Colour: Colourless

(Contd. on page 6)



Printing date 14.04.2022 Version number 7 (replaces version 6) Revision: 14.04.2022

Trade name: Technovit 7200 VLC

	(Contd. of page 5)
· Smell:	Weak, characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Not determined
Boiling point or initial boiling point and	Not determined
boiling range	213 °C (868-77-9 2-hydroxyethyl methacrylate)
· Flammability	Not applicable.
· Lower and upper explosion limit	тог арричало.
· Lower:	Not determined.
Upper:	Not determined.
Flash point:	106 °C (868-77-9 2-hydroxyethyl methacrylate)
· Ignition temperature:	375 °C (868-77-9 2-hydroxyethyl methacrylate)
· Ďecomposition temperature:	Not determined.
·SAPT	
Technovit 7200 VLC >100 °C	
· SADT	
· pH	Not determined.
Viscosity:	
Kinematic viscosity	Not determined.
dynamic:	Not determined.
Solubility	All of the state o
· Water:	Not miscible or difficult to mix
Partition coefficient n-octanol/water (log	Not determed a
value)	Not determined. 0.1 hPa
· Steam pressure at 20 °C: · Density and/or relative density	U. I TIFA
Density and/or relative density Density at 20 °C	1 g/cm³
Relative density	Not determined.
· Vapour density	Not determined.
·	further relevant information available.
Appearance:	artifor rolovant information available.
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.
Solvent content:	
VOC EU	g/l
Change in condition	No. 6 de la marka e d
· Evaporation rate	Not determined.
Information with regard to physical hazard	
classes	14.74
Explosives	Void
Flammable gases	Void
Aerosols	Void
· Oxidising gases	Void Void
· Gases under pressure · Flammable liquids	Void Void
· Flammable solids	Void
Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
i ji opiiono condo	(Contd. on page 7)

(Contd. on page 7)



Printing date 14.04.2022 Version number 7 (replaces version 6) Revision: 14.04.2022

Trade name: Technovit 7200 VLC

(Contd. of page 6)	

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 Exothermic polymerisation
- · 10.4 Conditions to avoid

Heat, flames and sparks.

moisture exposure

10.5 Incompatible materials:

organic peroxides

amine

metals

reducing agent

Strong oxidizers

Radical initiator

· 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.

· Acute toxicity Based on available data, the classification criteria are not met.			
· L.	D/LC5	0 values that are relevant for classification:	
7534-94-3 Exo-1,7,7-trimethylbicyclo[2.2.1]hept-2-yl methacrylate			
Oral	3,160 mg/kg (rat)		
868-77-	9 2-hy	droxyethyl methacrylate	
Oral LD50 5,564 mg/kg (rat)		5,564 mg/kg (rat)	
Dermal	LD50	>5,000 mg/kg (rabbit)	
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)	
	• L 7534-94 Oral 868-77- Oral Dermal 75980-6 Oral	LD/LC5 7534-94-3 Exc Oral LD50 868-77-9 2-hy Oral LD50 Dermal LD50 75980-60-8 dij Oral LD50	

- Skin corrosion/irritation
 - Causes skin irritation.
- · Serious eye damage/irritation

Causes sérious 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.

(Contd. on page 8)



Printing date 14.04.2022

Version number 7 (replaces version 6)

Revision: 14.04.2022

Trade name: Technovit 7200 VLC

(Contd. of page 7)

- · STOT-single exposure
- May cause respiratory irritation.
- · 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: 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)

868-77-9 2-hydroxyethyl methacrylate

	, , ,
EC50/72h	345 mg/l (algae) (OECD 201)
EC50/21d	90.1 mg/L (daphnia) (OECD 211)
EC50/48h (static)	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)

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	3.53 mg/l (daphnia) (OECD 202) 1.4 mg/l (fish) (OECD 203) >2.01 mg/l (algae) (OECD 201) 1.56 mg/L (algae) (OECD 201)
ErC10/72h	1.56 mg/L (algae) (OECD 201)

· 12.2 Persistence and degradability

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

Biodegradation 70 % /28d (not defined) (OECD 310)

868-77-9 2-hydroxyethyl methacrylate

Biodegradation 92-100 % /14d (not defined) (OECD 301C)

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)

(Contd. on page 9)



Printing date 14.04.2022

Version number 7 (replaces version 6)

Revision: 14.04.2022

Trade name: Technovit 7200 VLC

(Contd. of page 8)

· 12.3 Bioaccumulative potential

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

Bloconcentration factor (BCF) 37 (not defined) (OECD 305)

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 No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
 - Recommendation

Small quantities can be polymerized by light and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local

· Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information	on	
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: · Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
14.7 Maritime transport in bulk according IMO instruments	t o Not applicable.	
· Transport/Additional information:	-	
· UN "Model Regulation":	Void	

(Contd. on page 10)



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

Printing date 14.04.2022

Version number 7 (replaces version 6)

Trade name: Technovit 7200 VLC

(Contd. of page 9)

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.

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.

H361f Suspected of damaging fertility.

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

ATA: International Air Transport Agreement

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)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic

compounds)

DNEL: Derived No-Effect Level (GB REACH)
PNEC: Predicted No-Effect Concentration (GB 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

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
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

(EĆ) 1907/2006: GB REACH

ADŔ/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.



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

Printing date 14.04.2022

Version number 6 (replaces version 5)

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

- · 1.1 Product identifier
 - Trade name: Technovit 7210 VLC
- · 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 Fixation adhesive
- · 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

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Skin Irrit. 2 H315 Causes skin irritation.

Eye Dam. 1 H318 Causes serious eye damage.

Skin Sens. 1 H317 May cause an allergic skin reaction.

STOT SE 3 H335 May cause respiratory irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · 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







GHS02 GHS05 GHS07

- · Signal word Danger
- · Hazard-determining components of labelling:

methyl methacrylate

(2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

2- (2H-Benzotriazol-2-yl) -p-cresol

Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P273 Avoid release to the environment.

(Contd. on page 2)



Printing date 14.04.2022 Version number 6 (replaces version 5) Revision: 14.04.2022

Trade name: Technovit 7210 VLC

(Contd. of page 1)

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.

P310 Immediately call a POISON CENTER/doctor.

· 2.3 Other hazards -

· Results of PBT and vPvB assessment

· **PBT:** Not applicable. · **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

3.2 WIACUTES		
· Dangerous components:		
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	≥25-≤75%
CAS: 32435-46-4 EINECS: 251-040-2	Bis [2- (methacryloyloxy) ethyl] phosphate Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≥5-<10%
CAS: 40220-08-4 EINECS: 254-843-6 Reg.nr.: 01-2120741502-64-xxxx	(2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate Eye Dam. 1, H318 Aquatic Chronic 2, H411 Skin Sens. 1B, H317	≥3-<5%
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	<i>≥</i> 1-<2.5%
CAS: 2440-22-4 EINECS: 219-470-5 Reg.nr.: 01-2119583811-34-xxxx	2- (2H-Benzotriazol-2-yl) -p-cresol Aquatic Chronic 1, H410 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

Take affected persons into the open air.

Instantly remove any clothing soiled by the product.

Personal protection for the First Aider.

· After inhalation

In case of unconsciousness bring patient into stable side position for transport.

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

· Áfter 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. Then consult doctor.

(Contd. on page 3)



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

Printing date 14.04.2022

Version number 6 (replaces version 5)

Trade name: Technovit 7210 VLC

(Contd. of page 2)

Remove contact lenses, if present and easy to do. Continue rinsing. Use eye protection.

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 CO2, sand, extinguishing powder. Do not use water.
 - For safety reasons unsuitable extinguishing agents Water.
- · 5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

Can be released in case of fire

Carbon dioxide (CO2)

Carbon monoxide (CO)

phosphorus oxides (PxOy)

Formation of toxic gases is possible during heating or in case of fire.

- 5.3 Advice for firefighters
 - · Protective equipment: Wear self-contained breathing apparatus.
 - Additional information

Cool endangered containers with water spray jet.

Collect contaminated fire fighting water separately. It must not enter drains.

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

Wear protective equipment. Keep unprotected persons away.

Avoid contact with eyes and skin.

Do not breathe vapor / mist / gas.

Ensure adequate ventilation

Keep away from ignition sources

6.2 Environmental precautions:

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

Damp down gases/fumes/haze with water spray jet.

Keep dirty washing water for appropriate disposal.

Do not allow to enter the ground/soil.

· 6.3 Methods and material for containment and cleaning up:

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

Do not flush with water or aqueous cleansing agents

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



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

Printing date 14.04.2022

Version number 6 (replaces version 5)

Trade name: Technovit 7210 VLC

(Contd. of page 3)

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Keep containers tightly sealed.

Prevent formation of aerosols.

Avoid contact with eyes and skin.

Do not breathe vapor / mist / gas.

Ensure good ventilation/exhaustion at the workplace.

Keep away from heat and direct sunlight.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Fumes can combine with air to form an explosive mixture.

Do not spray on flames or red-hot objects.

Protect against electrostatic charges.

· Handling

do not mix with organic peroxides Radical initiator amine Strong oxidizers reducing agent

metals 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 cool (not above 25 °C). Store in cool, dry conditions in well sealed containers.

· 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 methad	80-62-6 methyl methacrylate		
WEL (Great Britain)	Short-term value: 416 mg/m³, 100 ppm		

IOELV (European Union) Short-term value: 100 ppm Long-term value: 50 ppm

· DNELs

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/m3 (not defined)
	worker industrial, long term, systemic	348.4 mg/m3 (not defined)
	worker industrial, long term, local	208 mg/m3 (not defined)

(Contd. on page 5)



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

Printing date 14.04.2022

Version number 6 (replaces version 5)

Trade name: Technovit 7210 VLC

				(Contd. of pa
	general population, acute		208 mg/m3 (not defined)	
			74.3 mg/m3 (not defined)	
	• • •		iyl)triethylene triacrylate	
Oral		-	0.083 mg/Kg (not defined)	
Dermal	worker industrial, long te	-	2.3 mg/Kg/d (not defined)	
		-	0.83 mg/Kg/d (not defined)	
Inhalative	worker industrial, long te	-	1.65 mg/m3 (not defined)	
		•	0.29 mg/m3 (not defined)	
	8 diphenyl(2,4,6-trimeth	• • • •	•	
Oral		-	0.0833 mg/Kg (not defined)	
Dermal	worker industrial, long te	-	0.233 mg/Kg/d (not defined)	
	general population, long	-	0.0833 mg/Kg/d (not defined)	
Inhalative	worker industrial, long te	-	0.822 mg/m3 (not defined)	
			0.145 mg/m3 (not defined)	
	2- (2H-Benzotriazol-2-y	<u> </u>		
Oral	general population, long	-		
Dermal	worker industrial, long te	rm, systemic	2.5 mg/Kg/d (not defined)	
	general population, long	-	1.2 mg/Kg/d (not defined)	
Inhalative	worker industrial, acute,	systemic	1 mg/m3 (not defined)	
	worker industrial, long te	rm, systemic	1 mg/m3 (not defined)	
	worker professional, long	g term, local	1 mg/m3 (not defined)	
· PNE	ECs			
80-62-6 m	ethyl methacrylate			
freshwater	•	0.94 mg/l (not	defined)	
marine wa	ter	0.094 mg/l (no	t defined)	
sewage tre	eatment plant	10 mg/l (not de	efined)	
sediment,	dry weight, freshwater	10.2 mg/Kg (n	ot defined)	
sediment,	dry weight, marine water	0.102 mg/Kg (not defined)		
soil, dry w	eight	1.48 mg/Kg (n	ot defined)	
40220-08-	4 (2,4,6-trioxo-1,3,5-tria	zinane-1,3,5-tr	iyl)triethylene triacrylate	
freshwater	•	0.00943 mg/l (not defined)	
marine wa	ter	0.000943 mg/l	(not defined)	
sewage tre	eatment plant	10 mg/l (not defined)		
sediment,	dry weight, freshwater	0.62 mg/Kg (n	ot defined)	
	dry weight, marine water		•	
soil, dry w		0.118 mg/Kg (
	8 diphenyl(2,4,6-trimeth		,	
freshwater		0.0014 mg/l (n	-	
marine water		0.00014 mg/l (· · · · · · · · · · · · · · · · · · ·	
sediment, dry weight, freshwater		0.115 mg/Kg (,	
	dry weight, marine water		•	
soil, dry w		0.0222 mg/Kg		
	2- (2H-Benzotriazol-2-y		,	
freshwater	<u> </u>	0 mg/l (not def	fined)	
		- '	•	(Contd. on pa



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

Printing date 14.04.2022

Version number 6 (replaces version 5)

(Contd. of page 5)

Trade name: Technovit 7210 VLC

marine water 0 mg/l (not defined)
sewage treatment plant 1 mg/l (not defined)
sediment, dry weight, freshwater 0.014 mg/Kg (not defined)

sediment, dry weight, marine water soil, dry weight 0.014 mg/Kg (not defined) 100 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

Keep away from foodstuffs, beverages and food.

Do not eat or drink while working.

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

Do not inhale gases / fumes / aerosols.

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.

· 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.

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

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

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 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
Colour:
Smell:
Fluid
Colourless
Characteristic

(Contd. on page 7)



Printing date 14.04.2022

Version number 6 (replaces version 5)

Revision: 14.04.2022

Trade name: Technovit 7210 VLC

	(Contd. of page 6)
· Odour threshold:	Not determined.
· Melting point/freezing point:	Not determined
· Boiling point or initial boiling point and	TVOL GOLOTTIMIOG
boiling range	100.3 °C (80-62-6 methyl methacrylate)
· Flammability	Not applicable.
· Lower and upper explosion limit	rvot apphoabio.
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	10 °C (80-62-6 methyl methacrylate)
Decomposition temperature:	Not determined.
· 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 at 20 °C	1 g/cm³
Relative density	Not determined.
· Vapour density	Not determined.
· 9.2 Other information No fo	urther 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. However, formation of
	explosive air/vapour mixtures is possible.
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	
Highly flammable liquid and vapour.	Madal
Flammable solids	Void
· Self-reactive substances and mixtures	Void Void
· Pyrophoric liquids · Pyrophoric solids	Void Void
Self-heating substances and mixtures	Void Void
Substances and mixtures, which emit	VOIU
flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising inquits	Void
· Organic peroxides	Void
	(Contd. on page 8)

(Contd. on page 8)



Printing date 14.04.2022

Version number 6 (replaces version 5)

Revision: 14.04.2022

Trade name: Technovit 7210 VLC

(Contd. of page 7)

· 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 Exothermic polymerisation
- · 10.4 Conditions to avoid

moisture exposure

Heat, flames and sparks.

10.5 Incompatible materials:

organic peroxides Radical initiator

amine

Strong oxidizers

reducing agent

metals

Strong acids

· 10.6 Hazardous decomposition products: None

SECTION 11: Toxicological information

• 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:					
80-62-6 m	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)			
40220-08-	4 (2,4,6-tr	ioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate			
Oral	LD50	>2,000 mg/kg (rat) (OECD 423)			
75980-60-	8 dipheny	rl(2,4,6-trimethylbenzoyl)phosphine oxide			
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)			
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)			
2440-22-4	2440-22-4 2- (2H-Benzotriazol-2-yl) -p-cresol				
Oral	LD50	10,000 mg/kg (rat) (OECD 423)			
	Al. ' ' ' ' ' ' '				

- · Skin corrosion/irritation
- Causes skin irritation.
- · Serious eye damage/irritation

Causes serious eye damage.

· 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 May cause respiratory irritation.
- 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.

(Contd. on page 9)



Printing date 14.04.2022

Version number 6 (replaces version 5)

Revision: 14.04.2022

Trade name: Technovit 7210 VLC

· 11.2 Information on other hazards	(Contd. of page 8)
· Endocrine disrupting properties	
75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	List II

12.1 Toxicity	
· Aquatic t	
	nyl methacrylate
EC50/21d	49 mg/L (daphnia) (OECD 211)
EC50/48h	69 mg/l (daphnia) (EPA OTS 797.1300)
	37 mg/l (daphnia) (OECD 211)
	>110 mg/l (algae) (OECD 201)
	110 mg/l (algae) (OECD 201)
	48 mg/l (daphnia) (EPA OTS 797.1300)
	>110 mg/l (algae) (OECD 201)
NOEC/ 35d	9.4 mg/L (fish) (OECD 210)
LC50/ 35d	33.7 mg/L (fish) (OECD 210)
40220-08-4 (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate
EC50/48h	158.3 mg/l (daphnia) (OECD 202)
LC50/96h	9.43 mg/l (fish) (OECD 203)
ErC50 / 72 h	25.7 mg/l (algae) (OECD 201)
ErC10/72h	12.9 mg/L (algae) (OECD 201)
75980-60-8 d	liphenyl(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)
2440-22-4 2-	(2H-Benzotriazol-2-yl) -p-cresol
EC50/72h	>100 mg/l (algae)
EC50/21d	0.015 mg/L (daphnia) (OECD 211)
LC50/96h	>0.17 mg/l (fish) (OECD 203)
NOEC / 21d	0.013 mg/l (daphnia) (OECD 211)
	>0.0822 mg/l (algae) (OECD 201)
	0.17 mg/l (fish) (OECD 203)
	>1,000 mg/l (daphnia) (OECD 202)
ErC10/72h	0.0588 mg/L (algae) (OECD 201)
	ence and degradability
	hyl methacrylate
	on 94 % /14d (not defined) (OECD 301C)
	2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate
	on 14.5-19.7 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)
Diouegrauali	(Contd. on p



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

Printing date 14.04.2022

Version number 6 (replaces version 5)

Trade name: Technovit 7210 VLC

(Contd. of page 9)

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)

2440-22-4 2- (2H-Benzotriazol-2-yl) -p-cresol

Biodegradation | 0-2 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)

· 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

Small quantities can be polymerized with the matching system component(s) and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities.

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** UN1247

14.2 UN proper shipping name

ADR 1247 METHYL METHACRYLATE MONOMER,

STABILIZED solution

· IMDG, IATA METHYL METHACRYLATE MONOMER,

STABILIZED solution

· 14.3 Transport hazard class(es)

ADR



Class 3 (F1) Flammable liquids.

(Contd. on page 11)



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

Printing date 14.04.2022

Version number 6 (replaces version 5)

VLC

Trade name: Technovit 7210 VLC

(Contd. of page 10) 3 · Label · IMDG, IATA 3 Flammable liquids. · Class · Label 14.4 Packing group ADR, IMDG, IATA II· 14.5 Environmental hazards: Marine pollutant: No · 14.6 Special precautions for user Warning: Flammable liquids. · Kemler Number: 33 · EMS Number: F-E, S-D С · Stowage Category · Stowage Code SW1 Protected from sources of heat. SW2 Clear of living quarters. · 14.7 Maritime transport in bulk according to IMO instruments Not applicable. · Transport/Additional information: Limited quantities (LQ) 1L Excepted quantities (ÉQ) Code: E2 Maximum net quantity per inner packaging: Maximum net quantity per outer packaging: 500 ml · Transport category · Tunnel restriction code D/E · IMDG · Limited quantities (LQ) · Excepted quantities (ÉQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN "Model Regulation": UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED SOLUTION, 3, II

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 P5c FLAMMABLE LIQUIDS

(Contd. on page 12)



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

Printing date 14.04.2022

Version number 6 (replaces version 5)

Trade name: Technovit 7210 VLC

(Contd. of page 11)

- Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50 000 t
- · Information about limitation of use:

Employment restrictions concerning young persons must be observed.

Employment restrictions concerning pregnant and lactating women must be observed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

H361f Suspected of damaging fertility.

H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

SADT: Self Accelerating Decomposition Temperature

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

CHS: Clabelly Hermanical System of Classification and Labellians of Cl

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

LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids — Category 2
Skin Irrit. 2: Skin corrosion/irritation — Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

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 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

(EC) 1272/2008: classification, labelling and packaging of substances and mixtures (EC) 1907/2006: GB REACH

`ADŔ/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.



Revision: 29.04.2022

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

Printing date 29.04.2022

Version number 8 (replaces version 7)

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

- · 1.1 Product identifier
 - · Trade name: Technovit 7230 VLC
- · 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 Fixation adhesive
- · 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 Sens. 1 H317 May cause an allergic skin reaction.

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

- · 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 GHS09

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

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate

diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

Hazard statements

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

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.

P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.

· 2.3 Other hazards

- Results of PBT and vPvB assessment
 - · PBT: Not applicable.
 - · vPvB: Not applicable.



Printing date 29.04.2022 Version number 8 (replaces version 7) Revision: 29.04.2022

Trade name: Technovit 7230 VLC

(Contd. of page 1)

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Dangerous components:		
CAS: 72869-86-4 EINECS: 276-957-5	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate	>90%
Reg.nr.: 01-2120751202-68-xxxx	Aquatic Chronic 2, H411 Skin Sens. 1B, H317 EUH204	
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	≥1-<2.5%

[·] 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

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

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.

Can be released in case of fire

Carbon dioxide (CO2)

Carbon monoxide (CO)

phosphorus oxides (PxOy)

5.3 Advice for firefighters

Protective equipment:

Wear self-contained breathing apparatus.

(EN 133)

(Contd. on page 3)



Printing date 29.04.2022

Version number 8 (replaces version 7)

Revision: 29.04.2022

Trade name: Technovit 7230 VLC

(Contd. of page 2)

· Additional information Cool endangered containers with water spray jet.

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 drainage system, surface or ground water.

Damp down gases/fumes/haze with water spray jet.

· 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 7 for information on safe handling

See Section 8 for information on personal protection equipment.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Avoid contact with eyes and skin.

Keep away from heat and direct sunlight.

Prevent formation of aerosols.

· Information about protection against explosions and fires:

Protect against electrostatic charges.

Keep ignition sources away - Do not smoke.

· Handling

do not mix with organic peroxides Radical initiator

metals

Strong bases

· 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 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Not required.

(Contd. on page 4)



Printing date 29.04.2022

Version number 8 (replaces version 7)

Revision: 29.04.2022

Trade name: Technovit 7230 VLC

(Contd. of page 3					
· DNELs					
72869-86-	72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate				
Oral	general population, long	term, systemic	0.3 mg/Kg (not defined)		
Dermal	worker industrial, long te	rm, systemic	1.3 mg/Kg/d (not defined)		
	general population, long	term, systemic	0.7 mg/Kg/d (not defined)		
Inhalative	worker industrial, long te	rm, systemic	3.3 mg/m3 (not defined)		
	general population, long	term, systemic	0.6 mg/m3 (not defined)		
75980-60-	8 diphenyl(2,4,6-trimeth	ylbenzoyl)pho	sphine oxide		
Oral	general population, long	term, systemic	0.0833 mg/Kg (not defined)		
Dermal	worker industrial, long te	rm, systemic	0.233 mg/Kg/d (not defined)		
	general population, long	term, systemic	0.0833 mg/Kg/d (not defined)		
Inhalative	worker industrial, long te	rm, systemic	0.822 mg/m3 (not defined)		
	general population, long	term, systemic	0.145 mg/m3 (not defined)		
· PNI	ECs				
72869-86-	4 7,7,9(or 7,9,9)-trimet bismethacrylate	hyl-4,13-dioxo	o-3,14-dioxa-5,12-diazahexadecane-1,16-diyl		
freshwate	r	0.01 mg/l (not	defined)		
marine wa	nter	0.001 mg/l (no	t defined)		
sewage tre	eatment plant	3.61 mg/l (not	defined)		
sediment,	dry weight, freshwater	4.56 mg/Kg (n	ot defined)		
sediment, dry weight, marine water		0.46 mg/Kg (n	ot defined)		
soil, dry w	eight	0.91 mg/Kg (not defined)			
75980-60-	-8 diphenyl(2,4,6-trimeth	ylbenzoyl)pho	sphine oxide		
freshwater 0.001		0.0014 mg/l (n	ot defined)		
marine water		0.00014 mg/l (not defined)		
sediment, dry weight, freshwater		0.115 mg/Kg (l	not defined)		
sediment, dry weight, marine water		0.0115 mg/Kg	(not defined)		
soil, dry weight 0.0222 mg/K		0.0222 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.

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and

the degradation

(Contd. on page 5)



Revision: 29.04.2022

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

Printing date 29.04.2022

Version number 8 (replaces version 7)

(Contd. of page 4) The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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

Material of gloves

Trade name: Technovit 7230 VLC

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 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 Fluid · Colour: Colourless

Weak, characteristic · Smell:

Odour threshold: Not determined. · Melting point/freezing point: Not determined

Boiling point or initial boiling point and 140 °C (72869-86-4 7,7,9(or 7,9,9)-trimethylboiling range 4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-

1,16-diyl bismethacrylate)

Not applicable. · Flammability

· Lower and upper explosion limit Not determined. Lower:

Upper: Not determined. >100 °C (72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-· Flash point:

1,16-diyl bismethacrylate)

Ignition temperature: 445 °C (72869-86-4 7.7.9(or 7.9.9)-trimethyl-

4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-

1.16-diyl bismethacrylate)

· Decomposition temperature: Not determined.

·SAPT

Technovit 7230 VLC >100 °C

SADT

Not determined. pН

Viscosity:

Kinematic viscosity Not determined. dynamic: Not determined.

· Solubility · Water: Not miscible or difficult to mix

(Contd. on page 6)



Revision: 29.04.2022

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

Printing date 29.04.2022

Version number 8 (replaces version 7)

Trade name: Technovit 7230 VLC

(Contd. of page 5)

· Partition coefficient n-octanol/water (log

Not determined. · Steam pressure: Not determined. components: no information available

· Density and/or relative density

Density at 20 °C 1.11 g/cm³ Not determined. Relative density · Vapour density Not determined.

· 9.2 Other information

No further relevant information available.

Appearance:

Viscous Form:

· 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.

· 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 Void Corrosive to metals · 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 Exothermic polymerisation
- · 10.4 Conditions to avoid Heat, flames and sparks.
- · 10.5 Incompatible materials:

organic peroxides

Radical initiator

metals

Strong bases

(Contd. on page 7)



Printing date 29.04.2022

Version number 8 (replaces version 7)

Revision: 29.04.2022

Trade name: Technovit 7230 VLC

· 10.6 Hazardous decomposition products: None

(Contd. of page 6)

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.

2.00.	riouse termenty = accurate artifaction and artifaction			
· L	· LD/LC50 values that are relevant for classification:			
72869-8	72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate			
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)		
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)		
75980-6	60-8 di	phenyl(2,4,6-trimethylbenzoyl)phosphine oxide		
		>5,000 mg/kg (rat) (OECD 401)		
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)		

- 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:		
	72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate		
EC50/48h	>1.2 mg/l (daphnia) (OECD 202)		
LC50/96h	10.1 mg/l (fish) (OECD 203)		
ErC50 / 72 h	>0.68 mg/l (algae) (OECD 201)		
NOEC / 72h	0.21 mg/l (algae) (OECD 201)		
75980-60-8 d	liphenyl(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)		
· 12.2 Persiste	ence and degradability		

72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate

Biodegradation 22 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)

(Contd. on page 8)



Printing date 29.04.2022

Version number 8 (replaces version 7)

Revision: 29.04.2022

Trade name: Technovit 7230 VLC

(Contd. of page 7)

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)

· 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 No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Small quantities can be polymerized by light and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities.

· Waste disposal key number: 55370

· Uncleaned packagings:

Recommendation: Disposal must be made according to official regulations.

14.1 UN number or ID number · ADR, IMDG, IATA	UN3082
ADR, INIDG, IATA	UN3002
14.2 UN proper shipping name · ADR	3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (7,7,9(or 7,9,9) trimethyl-4,13-dioxo-3,14-dioxa-5,12 diazahexadecane-1,16-diyl bismethiacrylate
· IMDG	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (7,7,9(or 7,9,9) trimethyl-4,13-dioxo-3,14-dioxa-5,12 diazahexadecane-1,16-diyl bismethacrylate diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide) MARINE POLLUTANT
·IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (7,7,9(or 7,9,9) trimethyl-4,13-dioxo-3,14-dioxa-5,12 diazahexadecane-1,16-diyl bismethacrylate diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide)



Printing date 29.04.2022

Version number 8 (replaces version 7)

Revision: 29.04.2022

Trade name: Technovit 7230 VLC

	(Contd. of page
14.3 Transport hazard class(es)	
ADR	
3/	
· Class	9 (M6) Miscellaneous dangerous substance and articles.
· Label	9
· IMDG, IATA	
1 1 1 1 1 1 1 1 1 1	
Class	9 Miscellaneous dangerous substances an articles.
· Label	9
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant:	No Symbol (fish and tree)
· Special marking (ADR): · Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances an articles.
· Kemler Number: · EMS Number: · Stowage Category	90 F-A,S-F A
· 14.7 Maritime transport in bulk according IMO instruments	to Not applicable.
· Transport/Additional information:	-
ADR Limited quantities (LQ)	5L
Excepted quantities (ÉQ)	Code: E1 Maximum net quantity per inner packaging 30 ml Maximum net quantity per outer packaging
· Transport category · Tunnel restriction code	1000 ml 3 (-)
· IMDG · Limited quantities (LQ)	5L



Printing date 29.04.2022 Version number 8 (replaces version 7) Revision: 29.04.2022

Trade name: Technovit 7230 VLC

(Contd. of page 9)

Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging:

Maximum net quantity per outer packaging:

1000 ml

UN "Model Regulation": UN 3082 ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, LIQUID, N.O.S. (7,7,9(OR 7,9,9)-TRIMETHYL-4,13-DIOXO-3,14-DIOXA-5,12-DIAZAHEXADECANE-1,16-DIYL BISMETHACRYLATE, DIPHENYL(2,4,6-TRIMETHYLBENZOYL)PHOSPHINE OXIDE), 9,

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
 - · Information about limitation of use:
 - Employment restrictions concerning young persons 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

May cause an allergic skin reaction. H317

H361f Suspected of damaging fertility.

Toxic to aquatic life with long lasting effects. H411

EUH204 Contains isocyanates. May produce an allergic reaction.

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

IMDG. International Mantime 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)
LCEO: Lethal concentration, 50 percent

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation - Category 1B

Repr. 2: Reproductive toxicity – Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

(Contd. on page 11)



Printing date 29.04.2022

Version number 8 (replaces version 7)

Revision: 29.04.2022

Trade name: Technovit 7230 VLC

(Contd. of page 10)

· 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.