

Printing date 17.03.2021 Version number 6 Revision: 17.03.2021

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

- · 1.1 Product identifier
 - Trade name: Technovit 4004 Liquid
- · 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

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

Skin Irrit. 2 H315 Causes skin 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 CLP regulation.

Hazard pictograms





GHS02 GHS07

· Signal word Danger

· Hazard-determining components of labelling:

methyl methacrylate

1,4-butandioldimethacrylate

2- (2H-Benzotriazol-2-yl) -p-cresol 2,2'-[(4-methylphenyl)imino]bisethanol

· Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

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.

Use explosion-proof [electrical/ventilating/lighting] equipment. P241

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

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water [or shower]. Store locked up.

P405 Store

· 2.3 Other hazards -· Results of PBT and vPvB assessment

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

SECTION 3: Composition/information on ingredients

- · 3.2 Chemical characterisation: Mixtures
 - Description: -

Description.			
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 Acute Tox. 5, H333	>90%	
CAS: 2082-81-7 EINECS: 218-218-1 Reg.nr.: 02-2119849716-25-xxxx	1,4-butandioldimethacrylate Skin Sens. 1B, H317 (≥1-≤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. 1, H317	≥0.25-<1%	
CAS: 3077-12-1 EINECS: 221-359-1 Reg.nr.: 01-2120791684-40-xxxx	2,2'-[(4-methylphenyl)imino]bisethanol Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Sens. 1, H317 Aquatic Chronic 3, H412	≥0.1-<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

Personal protection for the First Aider.

Take affected persons out of danger area and instruct to lie down.

- · 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 continues, consult a doctor.

· 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.

Rinse out mouth and then drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed Allergic reactions

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• **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.

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)

Nitrogen oxides (NOx)

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Avoid contact with eyes and skin.

Ensure adequate ventilation

Keep away from ignition sources

- · 6.2 Environmental precautions: Prevent material from reaching sewage system, holes and cellars.
- · 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.

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

Keep containers tightly sealed.

Avoid contact with eyes and skin.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

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.

- · 7.2 Conditions for safe storage, including any incompatibilities
 - · Storage
 - · Requirements to be met by storerooms and containers: Store in cool location.

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- Information about storage in one common storage facility: Not required. Further information about storage conditions:
- Store in a cool place. Heat will increase pressure and may lead to the container exploding.

 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· DNELs

Additional information about design of technical systems: No further data; see item 7. · Components with critical values that require monitoring at the workplace:

Components with critical values that require monitoring at the workplace.			
80-62-6 methyl methacrylate			
WEL (Great Britain)	Short-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm		
IOELV (European Union)	Short-term value: 100 ppm Long-term value: 50 ppm		

-	DIVLES	
80-62-6 m	ethyl methacrylate	
Oral	ge.pop., l.te, syst.	8.2 mg/Kg (nd)
Dermal	worker industr., l.te., syst.	13.67 mg/Kg/d (nd)
	ge.pop., l.te, syst.	8.2 mg/Kg/d (nd)
Inhalative	worker industr., acute, local	416 mg/m3 (nd)
	worker industr., l.te., syst.	348.4 mg/m3 (nd)
	worker industr., l.te., local	208 mg/m3 (nd)
	ge.pop., acu., local	208 mg/m3 (nd)
	ge.pop., l.te, syst.	74.3 mg/m3 (nd)
2082-81-7	1,4-butandioldimethacryla	te
Oral	ge.pop., l.te, syst.	2.5 mg/Kg (nd)
Dermal	worker industr., l.te., syst.	4.2 mg/Kg/d (nd)
	ge.pop., l.te, syst.	2.5 mg/Kg/d (nd)
Inhalative	worker profess., l.te., syst.	14.5 mg/m3 (nd)
	ge.pop., l.te, syst.	4.3 mg/m3 (nd)
2440-22-4	ا- (2H-Benzotriazol-2-yl) -	o-cresol
Oral	ge.pop., l.te, syst.	1.2 mg/Kg (nd)
Dermal	worker industr., l.te., syst.	2.5 mg/Kg/d (nd)
	ge.pop., l.te, syst.	1.2 mg/Kg/d (nd)
Inhalative	worker industr., acute, syst.	1 mg/m3 (nd)
	worker industr., l.te., syst.	1 mg/m3 (nd)
	worker profess., l.te., local	1 mg/m3 (nd)
3077-12-1	2,2'-[(4-methylphenyl)imin	o]bisethanol
Oral	ge.pop., l.te, syst.	0.16 mg/Kg (nd)
Dermal	worker industr., I.te., syst.	0.47 mg/Kg/d (nd)
	ge.pop., l.te, syst.	0.17 mg/Kg/d (nd)
Inhalative	worker industr., I.te., syst.	3.29 mg/m3 (nd)
	ge.pop., l.te, syst.	0.58 mg/m3 (nd)
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· PNECs	
80-62-6 methyl meth	nacrylate
freshwater	0.94 mg/l (aqua)
	0.94 mg/l (nd)
marine water	0.094 mg/l (nd)
STP	10 mg/l (nd)
sedim., dw, fre.wat.	10.2 mg/Kg (nd)
sedim., dw, mar.wat.	0.102 mg/Kg (nd)
soil,dw	1.48 mg/Kg (nd)
2082-81-7 1,4-butan	dioldimethacrylate
freshwater	0.043 mg/l (nd)
marine water	0.004 mg/l (nd)
STP	2 mg/l (nd)
sedim., dw, fre.wat.	3.12 mg/Kg (nd)
sedim., dw, mar.wat.	0.312 mg/Kg (nd)
soil,dw	0.573 mg/Kg (nd)
-	nzotriazol-2-yl) -p-cresol
freshwater	0.00026 mg/l (nd)
marine water	0.000026 mg/l (nd)
interm. wat. release	1 mg/l (nd)
STP	1 mg/l (nd)
sedim., dw, fre.wat.	0.136 mg/Kg (nd)
sedim., dw, mar.wat.	
soil,dw	11 mg/Kg (nd)
	ethylphenyl)imino]bisethanol
freshwater	0.026 mg/l (nd)
marine water	0.003 mg/l (nd)
STP	10 mg/l (nd)
sedim., dw, fre.wat.	0.121 mg/Kg (nd)
sedim., dw, mar.wat.	
soil,dw	0.009 mg/Kg (nd)

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

· 8.2 Exposure controls

Personal protective equipment
General protective and hygienic measures
Keep away from foodstuffs, beverages and food.
Instantly remove any soiled and impregnated garments.

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

Avoid contact with the eyes and skin.

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

Protection of hands:

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

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

If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.

Solvent resistant gloves

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 protection: Safety glasses

· Body protection: Light weight protective clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and General Information	chemical properties				
Appearance: Form:	Fluid				
· Form: · Colour:	Fluid Colourless				
Colour.	Yellowish				
	Light brown				
· Smell:	Characteristic				
· Odour threshold:	Not determined.				
· pH-value:	Not determined.				
· Change in condition · Melting point/freezing point: · Initial boiling point and boiling range: >35 °C					
· Flash point:	<23 °C				
· Inflammability (solid, gaseous)	Not applicable.				
· Decomposition temperature:	Not determined.				
· Self-inflammability:	Product is not selfigniting.				
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.				
· Critical values for explosion:					
Lower:	Not determined.				
· Upper:	Not determined.				
· Steam pressure:	Not determined.				
· Density at 20 °C	0.94954 g/cm³				
· Relative density	Not determined.				
· Vapour density	Not determined.				
Evaporation rate	Not determined.				

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· Solubility in / Miscibility with

· Water: Not miscible or difficult to mix

· Partition coefficient: n-octanol/water: Not determined.

Viscosity:

· dynamic: Not determined. · kinematic: Not determined.

• 9.2 Other information No further relevant information available.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
 - · Conditions to be avoided: No decomposition if used and stored according to specifications.
- 10.3 Possibility of hazardous reactions Danger of polymerisation
- · 10.4 Conditions to avoid

Heat, flames and sparks.

moisture exposure

· 10.5 Incompatible materials:

amine

Radical initiator

Strong oxidizers

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

SECTION 11: Toxicological information

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

	· LD/LC50 values that are relevant for classification:			
	80-62-6 methyl methacrylate			
	Oral	LD50	~7,900 mg/kg (rat)	
	Dermal	LD50	>5,000 mg/kg (rab) (OECD 402)	
	Inhalative	LC50/4 h	29.8 mg/l (rat)	
	2082-81-7 1,4-butandioldimethacrylate			
	Oral		10,066 mg/kg (rat) (OECD 401)	
2440-22-4 2- (2H-Benzotriazol-2-yl) -p-cresol				
	Oral	LD50	10,000 mg/kg (rat) (OECD 423)	
	3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol			
	Oral	LD50	959 mg/kg (rat) (OECD 401)	
	Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)	

- · Primary irritant effect:
 - · Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

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- · Additional toxicological information:

 - CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

 · Germ cell mutagenicity Based on available data, the classification criteria are not met.

 · Carcinogenicity Based on available data, the classification criteria are not met.

 · Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure
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.

12.1 Toxicity	12: Ecological information	
· Aquatic to		
•	nyl methacrylate	
EC50/21d	49 mg/L (daphnia) (OECD 211)	
EC50/48h	69 mg/l (daphnia) (EPA OTS 797.1300)	
NOEC / 21d	37 mg/l (daphnia) (OECD 211)	
ErC50 / 72 h	>110 mg/l (algae) (OECD 201)	
NOEC / 72h	110 mg/l (algae) (OECD 201)	
NOEC / 48h	48 mg/l (daphnia) (EPA OTS 797.1300)	
EbC50 / 72h	>110 mg/l (algae) (OECD 201)	
NOEC/ 35d	9.4 mg/L (fish) (OECD 210)	
LC50/ 35d	33.7 mg/L (fish) (OECD 210)	
2082-81-7 1,4	1-butandioldimethacrylate	
EC50/21d	14.1 mg/L (daphnia) (OECD 211)	
EC50/48h	32.5 mg/l (fish)	
NOEC / 21d	5.09 mg/l (daphnia) (OECD 211)	
ErC50 / 72 h	9.79 mg/l (algae) (OECD 201)	
NOEC / 72h	2.11 mg/l (algae) (OECD 201)	
NOEC / 48h	25 mg/l (fish)	
ErC10/72h	4.35 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)	
	0.013 mg/l (daphnia) (OECD 211)	
	>0.0822 mg/l (algae) (OECD 201)	
NOEC / 96h	0.17 mg/l (fish) (OECD 203)	
EC50 / 24h	>1,000 mg/l (daphnia) (OECD 202)	
ErC10/72h	58.8 mg/L (algae) (OECD 201)	
	2'-[(4-methylphenyl)imino]bisethanol	
EC50/48h	48 mg/l (daphnia) (OECD 202)	
LC50/96h	>100 mg/l (fish) (OECD 203)	
	>100 mg/l (algae) (OECD 201)	
NOEC / 72h	100 mg/l (algae) (OECD 201)	(Contd. on pag



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12.2 Persistence and degradability

80-62-6 methyl methacrylate

Biodegradation 94 % /14d (nd) (OECD 301C)

2082-81-7 1,4-butandioldimethacrylate

Biodegradation 84 % /28d (nd) (OECD 310)

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

Biodegradation 0-2 % /28d (nd) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)

3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol

Biodegradation 1.5 % /29d (nd) (OECD 301D)

- 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
 - Additional ecological information:
 - · General notes:

Do not allow product to reach ground water, water bodies or sewage system.

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

- · 12.5 Results of PBT and vPvB assessment
 - · PBT: Not applicable.
 - · vPvB: Not applicable.
- 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
 - · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
 - · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport information

•	14.1	UN-	Nun	iber
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· ADR, IMDG, IATA

UN1247

· 14.2 UN proper shipping name

ADR

1247 METHYL METHACRYLATE MONOMER, STABILIZED mixture

· IMDG, IATA METHYL METHACRYLATE MONOMER,

STABILIZED mixture

· 14.3 Transport hazard class(es)

· ADR



· Class 3 (F1) Flammable liquids.

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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

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- 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
- · National regulations
 - · 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

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H333 May be harmful if inhaled.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids — Category 2

Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 5: Acute toxicity – Category 5
Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1B: Skin sensitisation – Category 1B
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 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

* Data compared to the previous version altered.