

Printing date 23.05.2022

Version number 8

Revision: 23.05.2022

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Trade name: Technovit 4000 syrup 1 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: Kuizer GmbH Leipziger Straße 2, 63450 Hanau (Germany) Tel. : 449 (0)6181 9689-2570 (Wehrheim) • Informing department: email: technik.wehrheim@kulzer-dental.com 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number): : 449 (0)6132-8446 SECTION 2: Hazards identification 2.1 Classification of the substance or mixture • Classification according to Regulation (EC) No 1272/2008 Flam. Liq. 3 H226 Flammable liquid and vapour. Skin Irit. 2 H317 Causes serious eye irritation. Eye Irit. 2 H317 Causes analergic skin reaction. Repr. 2 H361d Suspected of damaging the unborn child. STOT RE 1 H372 Causes analergic skin reaction. Repourt Hasard-determining components of labelling: • Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. • Hazard-determining components of labelling:<	· 1.1 Product ident	ifier
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	F210	
P280 Wear protective gloves/protective clothing/eye protection/face protection.	0000	

(Contd. on page 2)



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Revision: 23.05.2022

Trade name: Technovit 4000 syrup 1

(Contd. of page 1) 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. IF exposed or concerned: Call a POISON CENTER/doctor. P308+P311 P405 Store locked up. · 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 **Description:** Product based on methacrylates · Dangerous components: CAS: 100-42-5 ≥25-≤50% styrene EINECS: 202-851-5 EINECS: 202-851-5 Reg.nr.: 01-2119457861-32-xxxx Repr. 2, H361d; STOT RE 1, H372 Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319 ATE: LC50/4 h inhalative: 11.8 mg/l CAC. 00 60 6 -100/ >0 E

L	CAS: 80-62-6	metnyi methacrylate	22.5-<10%	
	EINECS: 201-297-1	Flam. Lig. 2, H225		
l	Reg.nr.: 01-2119452498-28-xxx	Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE		
	C .	3, H335		
Γ	CAS: 123-31-9	1,4-dihydrxybenzene	<i>≥</i> 0.025-<0.1%	
	EINECS: 204-617-8	Muta. 2, H341; Carc. 2, H351		
l	Reg.nr.: 01-2119524016-51-xxx	Eye Dam. 1, H318		
l	-	Aquatic Acute 1, H400 (M=10)		
l		Acute Tox. 4, H302; Skin Sens. 1, H317		
		ATE: LD50 oral: 375 mg/kg		
1	Additional information For	the wording of the listed hazard phrases refer to section	on 16	

• 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

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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

Personal protection for the First Aider.

• After inhalation

Supply fresh air; consult doctor in case of symptoms.

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

· 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.

Do not induce vomiting; instantly call for medical help.

(Contd. on page 3)



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(Contd. of page 2) • **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 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) 5.3 Advice for firefighters Protective equipment: Wear self-contained breathing apparatus. (EN 133) Additional information -SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keen upprotected persons away

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:** Do not allow to enter drainage system, surface or ground water. Keep dirty washing water for appropriate disposal.

- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues). Send for recovery or disposal in suitable containers.
 6.4 Reference to other sections See Section 13 for information on disposal.
- See Section 8 for information on personal protection equipment.

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

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Strong oxidizers · 7.2 Conditions for safe storage, including any incompatibilities

· Storage

· Handling do not mix with

- Requirements to be met by storerooms and containers: Store in cool, dry place in tightly closed containers.
 Information about storage in one common storage facility: Not required.
 Further information about storage conditions: None.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

		lical values that require	monitoring at the workplace.	
100-42-5 \$	•	01 11 1 1000	(2.050	
WEL (Gre	at Britain)	Short-term value: 1080 r Long-term value: 430 mg		
80-62-6 m	ethyl methacr			
WEL (Gre		Short-term value: 416 m	a/m³. 100 ppm	
(•	·····,	Long-term value: 208 mg	g/m³, 50 ppm	
IOELV (Ει	uropean Union)	Short-term value: 100 pp		
	-	Long-term value: 50 ppn	า	
	1,4-dihydrxybe			
WEL (Gre	,	Long-term value: 0.5 mg	/m³	
· DNI				
100-42-5 s				
Oral	• • •	tion, long term, systemic	2.1 mg/Kg (not defined)	
Dermal	worker industrial, long term, systemic		406 mg/Kg/d (not defined)	
	• • •	tion, long term, systemic	343 mg/Kg/d (not defined)	
Inhalative		al, acute, systemic	289 mg/m3 (not defined)	
		al, long term, systemic	85 mg/m3 (not defined)	
	worker industrial, long term, local		306 mg/m3 (not defined)	
	general population, acute, systemic		174.25 mg/m3 (not defined)	
	• • •	tion, long term, systemic	10.2 mg/m3 (not defined)	
	general population, long term, local		182.75 mg/m3 (not defined)	
	ethyl methacr			
Oral		tion, long term, systemic	,	
Dermal		al, long term, systemic	13.67 mg/Kg/d (not defined)	
		tion, long term, systemic	8.2 mg/Kg/d (not defined)	
Inhalative	worker industri		416 mg/m3 (not defined)	
		al, long term, systemic	348.4 mg/m3 (not defined)	
	worker industrial, long term, local		208 mg/m3 (not defined)	
	• • •	tion, acute, local	208 mg/m3 (not defined)	
	general popula	tion, long term, systemic	74.3 mg/m3 (not defined)	(Contd. on pag



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123-31-9 1	1,4-dihydrxybenzene		(Contd. of page
Oral	general population, long	term, systemic	0.6 mg/Kg (not defined)
Dermal	worker industrial, long te	-	3.33 mg/Kg/d (not defined)
			1.66 mg/Kg/d (not defined)
Inhalative	worker industrial, long te	•	2.1 mg/m3 (not defined)
	· •		1.05 mg/m3 (not defined)
· PNE		, , , , , , , , , , , , , , , , , , , 	
100-42-5 s			
freshwater	-	0.028 mg/l (no	t defined)
marine wa	ter	0.014 mg/l (no	
sewage tre	eatment plant	5 mg/l (not def	,
-	dry weight, freshwater	0.614 mg/Kg (,
	dry weight, marine water	0.307 mg/Kg (
soil, dry w		0.2 mg/Kg (no	,
-	ethyl methacrylate	0 0 (,
freshwater		0.94 mg/l (not	defined)
marine wa	ter	0.094 mg/l (no	·
sewage tre	eatment plant	10 mg/l (not de	
-	dry weight, freshwater	10.2 mg/Kg (n	,
	dry weight, marine water	0.102 mg/Kg (
soil, dry w	eight	1.48 mg/Kg (n	ot defined)
123-31-9 1	1,4-dihydrxybenzene		
freshwater		0.00057 mg/l (not defined)
marine wa	ter	0.000057 mg/l	(not defined)
sewage tre	eatment plant	0.71 mg/l (not	defined)
sediment,	dry weight, freshwater	0.0049 mg/Kg	(not defined)
sediment,	dry weight, marine water	0.00049 mg/K	g (not defined)
soil, dry w	eight	0.00064 mg/Kg	g (not defined)
· Add	litional information: The	lists that were	valid during the compilation were used as basis
Approp Individ Ger Kee Inst Was Do I Avo Bre Use Filte Han If sl	neral protective and hyg p away from foodstuffs, b antly remove any soiled a sh hands during breaks a not inhale gases / fumes / id contact with the eyes a athing equipment: breathing protection in ca er A. ad protection	s, such as per- ienic measure everages and f ind impregnated nd at the end of aerosols. ind skin. ase of insufficie	sonal protective equipment s food. d garments. f the work.
Solv	ent resistant gloves		
			(Contd. on pag



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(Contd. of page 5) 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. Fluorocarbon rubber (Viton)

>0.4 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.

· 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

· Colour: · Smell:	Yellow Aromatic
Odour threshold:	Not determined.
Melting point/freezing point:	Not determined
Boiling point or initial boiling poin	
boiling range	145 °C
Flammability	Not applicable.
Lower and upper explosion limit	
· Lower:	1.2 Vol %
· Upper:	8.9 Vol %
· Flash point:	31 °C (100-42-5 styrene)
Ignition temperature:	490 °C
 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/wat	
value)	Not determined.
· Steam pressure at 20 °C:	37.8 hPa
· Density and/or relative density	57.0 HF a
Density and/or relative density	$1.1 a/cm^3$
Density at 20 °C	1.1 g/cm³ Not determined.
Relative density	
· Vapour density	Not determined.
9.2 Other information	No further relevant information available.



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A	(Contd. of page
Appearance:	Elisia
· Form:	Fluid
Important information on protection of	
health and environment, and on safety.	Product is used as line it is a
Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation 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	
Flammable liquid and vapour.	
Flammable solids	Void
• Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
• Self-heating substances and mixtures	Void
 Substances and mixtures, which emit 	
flammable gases in contact with water	Void
· Oxidising liquids	Void
• Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

- Conditions to be avoided: No decomposition if used and stored according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- · 10.5 Incompatible materials: Strong oxidizers
- · 10.6 Hazardous decomposition products: None

SECTION 11: Toxicological information

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

· LD/LC50 values that are relevant for classification:

100-42-5 s	100-42-5 styrene		
Oral	LD50	5,000 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)	
Inhalative	LC50/4 h	11.8 mg/l (ATE)	

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		(Contd. of page 7)
		11.8 mg/l (rat)
80-62-6 m	ethyl met	
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)
123-31-9	1,4-dihydr	xybenzene
Oral	LD50	375 mg/kg (ATE)
		>375 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)
Causes Seriou Causes Respir May ca Germ o Carcin Reproo Suspec STOT- Causes Aspira Additio CM	s serious e ratory or s ause an alle cell mutag ogenicity ductive to cted of dan single exp repeated s damage of damage of damage stion hazal onal toxic R effects or. 2	tion. nage/irritation by e irritation. kin sensitisation ergic skin reaction. genicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. xicity maging the unborn child. bosure Based on available data, the classification criteria are not met.
·Endoc	rine disru	pting properties
		unt the current state of scientific knowledge, no data on endocrine disrupting product are available.
		nts is listed.
		cological information
12.1 Toxi	•	
-	ic toxicity:	
100-42-5	•	
EL50/48h	4.7 mg	ı/L (daphnia) (OECD 202)

	EL50/48h	4.7 mg/L (daphnia) (OECD 202)
	LC50/96h	10 mg/l (fish) (OECD 203)
ErC50 / 72 h 4.9 mg/l (algae) (EPA OTS 797.1050)		4.9 mg/l (algae) (EPA OTS 797.1050)
NOEC / 48h 1.9 mg/l (daphnia) (OECD 202)		
	80-62-6 meth	hyl 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)		>110 mg/l (algae) (OECD 201)
NOEC / 72h 110 mg/l (algae) (OECD 201)		110 mg/l (algae) (OECD 201)
	NOEC / 48h	48 mg/l (daphnia) (EPA OTS 797.1300)

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_			(Contd. of page 8)
		>110 mg/l (algae) (OECD 201)	
		9.4 mg/L (fish) (OECD 210)	
	LC50/ 35d	33.7 mg/L (fish) (OECD 210)	
123-31-9 1,4-dihydrxybenzene			
	EC50/48h	0.134 mg/l (daphnia) (OECD 202)	
	LC50/96h	0.638 mg/l (fish) (OECD 203)	
		0.33 mg/l (algae) (OECD 201)	
	NOEC / 48h	0.095 mg/l (daphnia) (OECD 202)	
Γ	12.2 Persiste	ence and degradability	
Γ	100-42-5 sty	rene	
	•	on 70.9-100 % /28d (not defined)	
		nyl methacrylate	
	•	on 94 % /14d (not defined) (OECD 301C)	
		dihydrxybenzene	
	Biodegradatio	on 70 % /14d (not defined) (OECD 301C)	
	12.6 Endocri For informatio The product of 12.7 Other a Additiona Gener Do not	applicable. t applicable. ine disrupting properties on on endocrine disrupting properties see section 11. does not contain substances with endocrine disrupting properties. dverse effects al ecological information: al notes: allow product to reach ground water, water bodies or sewage system. r to drinking water if even small quantities leak into soil.	
	SECTION	13: Disposal considerations	
	Recommo Must not l system. Small qua material d	reatment methods endation be disposed of together with household garbage. Do not allow product ntities can be polymerized with the matching system component(s) an ean be disposed of with the regular garbage. Larger quantities mus he regulations of the local authorities.	nd the cured solid
		d packagings: mendation: Disposal must be made according to official regulations.	

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA

UN1866

14.2 UN proper shipping name
 ADR

1866 RESIN SOLUTION

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· IMDG, IATA	Contd. of page RESIN SOLUTION
	RESIN SOLO HON
· 14.3 Transport hazard class(es)	
ADR	
· Class	3 (F1) Flammable liquids.
· Label	3
· IMDG, IATA	
3	
· Class	3 Flammable liquids.
·Label	3
· 14.4 Packing group	
· ADR, IMĎĞ, IAŤA	III
14.5 Environmental hazards:	
· Marine pollutant:	No
• 14.6 Special precautions for user Kemler Number:	Warning: Flammable liquids.
· Kemier Number: · EMS Number:	30 F-E,S- <u>E</u>
· Stowage Category	A
14.7 Maritime transport in bulk according	ı to
IMO instruments	Not applicable.
 Transport/Additional information: 	-
· ADR	
Limited quantities (LQ)	5L
• Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging
	30 ml
	Maximum net quantity per outer packaging
· Transport category	1000 ml 3
· Tunnel restriction code	J/E
· IMDG	
Limited quantities (LQ)	5L
Excepted quantities (ÉQ)	Code: E1
	Maximum net quantity per inner packaging 30 ml
	Maximum net quantity per outer packaging
	1000 ml
· UN "Model Regulation":	UN 1866 RESIN SOLUTION, 3, III

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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
- · 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.H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
 H317 May cause an allergic skin reaction.
 H318 Causes serious eye damage.
- H319 Causes serious eye irritation.

- H332 Harmful if inhaled.
 H335 May cause respiratory irritation.
 H341 Suspected of causing genetic defects.
 H351 Suspected of causing cancer.
- H361d Suspected of damaging the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H400 Very toxic to aquatic life.

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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (UK REACH)

- PNEC: Predicted No-Effect Concentration (ÚK 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 Flam. Liq. 3: Flammable liquids – Category 3

Acute Tox. 4: Acute toxicity – Category 4 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Muta. 2: Germ cell mutagenicity – Category 2 Carc. 2: Carcinogenicity – Category 2 Repr. 2: Reproductive toxicity – Category 2

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(Contd. of page 11) STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Sources (EC) 1272/2008: classification, labelling and packaging of substances and mixtures (EC) 1907/2006: UK REACH ÀDR/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.