

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

Printing date 01.06.2022

Version number 6 (replaces version 5)

Revision: 01.06.2022

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

- **1.1 Product identifier**
 - Trade name: **Technovit 2000 LC varnish**
- **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.
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**

GHS02 GHS07
 - **Signal word** Danger
 - **Hazard-determining components of labelling:**
methyl methacrylate
2,2'-[(4-methylphenyl)imino]bisethanol
diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
 - **Hazard statements**
H225 Highly flammable liquid and vapour.
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**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

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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.

- **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: 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: 3290-92-4 EINECS: 221-950-4 Reg.nr.: 01-2119542176-41-xxxx	Propylidynetrimethyl trimethacrylate Aquatic Chronic 2, H411	5-10%
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 ATE: LD50 oral: 959 mg/kg	≥1-<2.5%
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	≥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**

Personal protection for the First Aider.
Take affected persons out of danger area and instruct to lie down.
Take affected persons into the open air.

- **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
Breathing difficulty

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Coughing

- **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)
phosphorus oxides (P_xO_y)
Nitrogen oxides (NO_x)
- **5.3 Advice for firefighters**
 - **Protective equipment:**
Put on breathing apparatus.
(EN 133)
 - **Additional information**
Cool endangered containers with water spray jet.
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.
Keep away from ignition sources
Ensure adequate ventilation
- **6.2 Environmental precautions:**
Inform respective authorities in case product reaches water or sewage system.
Keep dirty washing water for appropriate disposal.
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 13 for information on disposal.
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**
Wear protective equipment. Keep unprotected persons away.
Prevent formation of aerosols.
Avoid contact with eyes and skin.
Do not breathe vapor / mist / gas.

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Keep containers tightly sealed.

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 from heat.

Protect against electrostatic charges.

· Handling

do not mix with

amine

organic peroxides

Radical initiator

Strong bases

Strong oxidizers

Strong acids

Water.

· 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.

Protect from heat and direct sunlight.

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:

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

· 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/m ³ (not defined)
	worker industrial, long term, systemic	348.4 mg/m ³ (not defined)
	worker industrial, long term, local	208 mg/m ³ (not defined)
	general population, acute, local	208 mg/m ³ (not defined)
	general population, long term, systemic	74.3 mg/m ³ (not defined)

3290-92-4 Propylidynetrimethyl trimethacrylate

Oral general population, long term, systemic 1.5 mg/Kg (not defined)

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<i>Dermal</i>	<i>worker industrial, long term, systemic</i>	42 mg/Kg/d (not defined)
	<i>general population, long term, systemic</i>	15 mg/Kg/d (not defined)
<i>Inhalative</i>	<i>worker industrial, long term, systemic</i>	14.81 mg/m ³ (not defined)
	<i>general population, long term, systemic</i>	2.6 mg/m ³ (not defined)
3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol		
<i>Oral</i>	<i>general population, long term, systemic</i>	0.16 mg/Kg (not defined)
<i>Dermal</i>	<i>worker industrial, long term, systemic</i>	0.47 mg/Kg/d (not defined)
	<i>general population, long term, systemic</i>	0.17 mg/Kg/d (not defined)
<i>Inhalative</i>	<i>worker industrial, long term, systemic</i>	3.29 mg/m ³ (not defined)
	<i>general population, long term, systemic</i>	0.58 mg/m ³ (not defined)
75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide		
<i>Oral</i>	<i>general population, long term, systemic</i>	0.0833 mg/Kg (not defined)
<i>Dermal</i>	<i>worker industrial, long term, systemic</i>	0.233 mg/Kg/d (not defined)
	<i>general population, long term, systemic</i>	0.0833 mg/Kg/d (not defined)
<i>Inhalative</i>	<i>worker industrial, long term, systemic</i>	0.822 mg/m ³ (not defined)
	<i>general population, long term, systemic</i>	0.145 mg/m ³ (not defined)
· PNECs		
80-62-6 methyl methacrylate		
	<i>freshwater</i>	0.94 mg/l (not defined)
	<i>marine water</i>	0.094 mg/l (not defined)
	<i>sewage treatment plant</i>	10 mg/l (not defined)
	<i>sediment, dry weight, freshwater</i>	10.2 mg/Kg (not defined)
	<i>sediment, dry weight, marine water</i>	0.102 mg/Kg (not defined)
	<i>soil, dry weight</i>	1.48 mg/Kg (not defined)
3290-92-4 Propylidynetrimethyl trimethacrylate		
	<i>freshwater</i>	0.00276 mg/l (not defined)
	<i>marine water</i>	0.000276 mg/l (not defined)
	<i>sewage treatment plant</i>	10 mg/l (not defined)
	<i>sediment, dry weight, freshwater</i>	0.495 mg/Kg (not defined)
	<i>sediment, dry weight, marine water</i>	0.05 mg/Kg (not defined)
	<i>soil, dry weight</i>	0.097 mg/Kg (not defined)
3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol		
	<i>freshwater</i>	0.026 mg/l (not defined)
	<i>marine water</i>	0.003 mg/l (not defined)
	<i>sewage treatment plant</i>	10 mg/l (not defined)
	<i>sediment, dry weight, freshwater</i>	0.121 mg/Kg (not defined)
	<i>sediment, dry weight, marine water</i>	0.012 mg/Kg (not defined)
	<i>soil, dry weight</i>	0.009 mg/Kg (not defined)
75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide		
	<i>freshwater</i>	0.0014 mg/l (not defined)
	<i>marine water</i>	0.00014 mg/l (not defined)
	<i>sediment, dry weight, freshwater</i>	0.115 mg/Kg (not defined)
	<i>sediment, dry weight, marine water</i>	0.0115 mg/Kg (not defined)
	<i>soil, dry weight</i>	0.0222 mg/Kg (not defined)

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- **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.
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**
*If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.
chemical protection gloves are suitable, which are tested according to EN 374
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 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** *Fluid*
 - **Colour:** *Colourless*
 - **Smell:** *Characteristic*
 - **Odour threshold:** *Not determined.*
 - **Melting point/freezing point:** *Not determined*
 - **Boiling point or initial boiling point and boiling range** *100.3 °C (80-62-6 methyl methacrylate)*
 - **Flammability** *Not applicable.*
 - **Lower and upper explosion limit**
 - **Lower:** *Not determined.*
 - **Upper:** *Not determined.*
 - **Flash point:** *10 °C (80-62-6 methyl methacrylate)*

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· Ignition temperature:	360 °C (3290-92-4 Propylidynetrimethyl trimethacrylate)
· 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	Not determined
· Relative density	Not determined.
· Vapour density	Not determined.

· 9.2 Other information	No further relevant information available.
· Appearance:	
· Form:	Fluid
· Important information on protection of health and environment, and on safety.	
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
· Solvent content:	
· VOC EU	689.9 g/l
· 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.	
· 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

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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**
moisture exposure
Heat, flames and sparks.
- **10.5 Incompatible materials:**
amine
organic peroxides
Radical initiator
Strong bases
Strong acids
Water.
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:**

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)
3290-92-4 Propylidynetrimethyl trimethacrylate		
Oral	LD0	>2,000 mg/kg (rat) (OECD 423)
Dermal	LD0	>2,000 mg/kg (rat) (OECD 402)
3077-12-1 2,2'-[(4-methylphenyl)imino]bisethanol		
Oral	LD50	959 mg/kg (ATE) 959 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)
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)

- **Skin corrosion/irritation**
Causes skin irritation.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**
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.

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11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

80-62-6 methyl 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)

3290-92-4 Propylidynetrimethyl trimethacrylate

EC50/48h	>9.22 mg/l (daphnia) (OECD 202)
LC50/96h	2 mg/l (fish) (OECD 203)
ErC50 / 72 h	3.88 mg/l (algae) (OECD 201)
NOEC / 72h	0.177 mg/l (algae) (OECD 201)
NOEC / 96h	1 mg/l (fish) (OECD 203)
NOEC / 48h	≥9.2 mg/l (daphnia) (OECD 202)
EbC50 / 72h	1.11 mg/l (algae) (OECD 201)
NOEC/ 32d	0.138 mg/L (fish) (OECD 210)

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

EC50/48h	48 mg/l (daphnia) (OECD 202)
LC50/96h	>100 mg/l (fish) (OECD 203)
ErC50 / 72 h	>100 mg/l (algae) (OECD 201)
NOEC / 72h	100 mg/l (algae) (OECD 201)

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	>2.01 mg/l (algae) (OECD 201)
ErC10/72h	1.56 mg/L (algae) (OECD 201)

12.2 Persistence and degradability

80-62-6 methyl methacrylate

Biodegradation 94 % /14d (not defined) (OECD 301C)

3290-92-4 Propylidynetrimethyl trimethacrylate

Biodegradation 53 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)

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

Biodegradation 1.5 % /29d (not defined) (OECD 301D)

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

Bioconcentration 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**
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
 - **Additional ecological information:**
 - **General notes:**
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.
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.
 - **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

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· 14.3 Transport hazard class(es)

· ADR



· Class 3 (F1) Flammable liquids.
· Label 3

· IMDG, IATA



· Class 3 Flammable liquids.
· Label 3

· 14.4 Packing group

· ADR, IMDG, IATA II

· 14.5 Environmental hazards:

· Marine pollutant: No

· 14.6 Special precautions for user

Warning: Flammable liquids.

· Kemer Number: 33
· EMS Number: F-E,S-D
· Stowage Category C
· 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: -

· ADR

· Limited quantities (LQ) 1L
· Excepted quantities (EQ) Code: E2
Maximum net quantity per inner packaging:
30 ml
Maximum net quantity per outer packaging:
500 ml
· Transport category 2
· Tunnel restriction code D/E

· IMDG

· Limited quantities (LQ) 1L
· Excepted quantities (EQ) Code: E2
Maximum net quantity per inner packaging:
30 ml
Maximum net quantity per outer packaging:
500 ml

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

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· **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
 - **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.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- 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
- 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)
- VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)
- DNEL: Derived No-Effect Level (UK REACH)
- PNEC: Predicted No-Effect Concentration (UK REACH)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- PBT: Persistent, Bioaccumulative and Toxic
- vPvB: very Persistent and very Bioaccumulative
- Flam. Liq. 2: Flammable liquids – Category 2
- 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
- Skin Sens. 1B: Skin sensitisation – Category 1B

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*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**(EC) 1907/2006: UK REACH**ADR/RID/ADN - IDMG - IATA: transport of dangerous goods by road, rail, inland waterway, with maritime vessels and for the air transport*** Data compared to the previous version altered.*

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