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Tel.: +49 (0)800 4372522

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

Printing date 29.07.2024 Version number 5 (replaces version 4) Revision: 03.07.2024

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

- · 1.1 Product identifier
 - · Trade name: Palaseal
- 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 Auxiliary for manufacture of dental prothesis
- · 1.3 Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany)

Informing department: E-Mail: msds@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.

Repr. 1B H360Fd May damage fertility. Suspected of damaging the unborn child.

STOT SE 3 H335 May cause respiratory irritation.

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











GHS02 GHS05 GHS07 GHS08 GHS09

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

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

methyl methacrylate

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

Bisphenol A Diglycidylether Diacrylate (BADGE-DA)

glycerol, propoxylated, esters with acrylic acid

Hazard statements

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

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H360Fd May damage fertility. Suspected of damaging the unborn child.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P201 Obtain special instructions before use.

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

sources. No smoking.

P280 Wear protective gloves / eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

· Additional information:

Restricted to professional users.

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: 80-62-6 EINECS: 201-297-1 Index number: 607-035-00-6	methyl methacrylate Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	≥25-≤50%
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	≥25-≤50%
CAS: 55818-57-0 NLP: 500-130-2 Reg.nr.: 01-2119490020-53-XXXX	Bisphenol A Diglycidylether Diacrylate (BADGE-DA) Aquatic Chronic 2, H411 (Skin Sens. 1, H317	<i>≥</i> 5- <i>≤</i> 10%
CAS: 52408-84-1 NLP: 500-114-5 Reg.nr.: 01-2119487948-12	glycerol, propoxylated, esters with acrylic acid Eye Irrit. 2, H319; Skin Sens. 1, H317	≥5-<10%
CAS: 75980-60-8 EINECS: 278-355-8 Index number: 015-203-00-X Reg.nr.: 01-2119972295-29-xxxx	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Repr. 1B, H360Fd Aquatic Chronic 2, H411 Skin Sens. 1B, H317	1-4%
	Polysiloxane hexa-acrylate Eye Irrit. 2, H319	<i>≥</i> 0-≤5%
	(Co	ntd. on page 3

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· 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
 - · After inhalation Supply fresh air; consult doctor in case of symptoms.
 - · After skin contact

Instantly rinse with water.

Seek medical treatment.

- · After eye contact Rinse opened eye for several minutes under running water. Then consult doctor.
- After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

· 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.

- · 5.3 Advice for firefighters
 - Protective equipment: No special measures required.
 - · 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.

- 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

6.4 Reference to other sections

No dangerous materials are released.

See Section 8 for information on personal protection equipment.

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SECTION 7: Handling and storage

· 7.1 Precautions for safe handling Keep containers tightly sealed.

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- Information about protection against explosions and fires:
 - Keep ignition sources away Do not smoke.

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.
 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.

### WEL (Great Britain) ### Short-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm ### 108-31-6 maleic anhydride #### WEL (Great Britain) ### Short-term value: 100 ppm Long-term value: 50 ppm ### 108-31-6 maleic anhydride ### WEL (Great Britain) ### Short-term value: 3 mg/m³ Long-term value: 1 mg/m³ Sen ### Short-term value: 3 mg/m³ Long-term value: 1 mg/m³ Sen ### PNELs ### 80-62-6 methyl methacrylate ### Oral	· Compo	nents with cri	tical values that require	monitoring at the workplace:	
Short-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm	-		<u>-</u>	,	
Long-term value: 208 mg/m³, 50 ppm Short-term value: 100 ppm Long-term value: 50 ppm				g/m³, 100 ppm	
Down	,	ŕ	Long-term value: 208 mg	g/m³, 50 ppm	
### WEL (Great Britain) ### Short-term value: 3 mg/m³ Long-term value: 1 mg/m³ Sen ### Short-term value: 3 mg/m³ Long-term value: 1 mg/m³ Sen ### Short-term value: 3 mg/m³ Long-term value: 1 mg/m³ Sen ### Para Book Sen	IOELV (Eu	ıropean Union)			
Short-term value: 3 mg/m³ Long-term value: 1 mg/m³ Sen				n	
DNELs **B0-62-6 methyl methacrylate** Oral general population, long term, systemic general population, long term, systemic worker industrial, long term, local general population, acute, local general population, acute, local general population, long term, systemic general population, long term, systemic Take and the systemic papers of the systemic papers of the systemic papers of the systemic papers of the systemic general population, long term, systemic general population, long t					
Oral general population, long term, systemic worker industrial, acute, local worker industrial, long term, systemic worker industrial, long term, local general population, acute, local general population, long term, systemic general population, long term, systemic oral general population, long term, systemic worker industrial, long term, systemic oral general population, long term, systemic general general population, long term, systemic general general population, long term, systemic general gene	WEL (Grea	at Britain)	Long-term value: 1 mg/m³		
Oral general population, long term, systemic worker industrial, acute, local worker industrial, long term, systemic worker industrial, long term, systemic worker industrial, long term, local general population, acute, local general population, long term, systemic oral general population, long term, systemic oral population, long term, systemic oral general population, long term, systemic general populat	· DNE	ELs			
Dermal worker industrial, long term, systemic general population, long term, systemic worker industrial, acute, local worker industrial, long term, systemic worker industrial, long term, local general population, acute, local general population, long term, systemic oral population, long term, systemic oral general population, long term, systemic oral population, long term, systemic permal worker industrial, long term, systemic oral general population, long term, systemic permal worker industrial, long term, systemic general population, long term, systemic gene	80-62-6 m	ethyl methacry	/late		
Inhalative worker industrial, acute, local worker industrial, long term, systemic worker industrial, long term, systemic worker industrial, long term, local general population, acute, local general population, long term, systemic oral general population, long term, systemic oral worker industrial, long term, systemic oral general population, long term, systemic oral worker industrial, long term, systemic general population, long term, systemi	Oral	general popula	tion, long term, systemic	8.2 mg/Kg (not defined)	
Inhalative worker industrial, acute, local worker industrial, long term, systemic worker industrial, long term, local general population, acute, local general population, long term, systemic oral population, long term, systemic oral worker industrial, long term, systemic oral general population, long term, systemic permal worker industrial, long term, systemic general population, long term, systemic general gen	Dermal	worker industri	al, long term, systemic	13.67 mg/Kg/d (not defined)	
worker industrial, long term, systemic worker industrial, long term, local general population, acute, local general population, long term, systemic Oral Dermal Worker industrial, long term, systemic general population, long term, systemic general		general popula	tion, long term, systemic	8.2 mg/Kg/d (not defined)	
worker industrial, long term, local general population, acute, local general population, long term, systemic Oral Dermal Worker industrial, long term, systemic general population, long term, systemic gener	Inhalative	worker industri	al, acute, local	416 mg/m3 (not defined)	
general population, acute, local general population, long term, systemic 40220-08-4 (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate Oral general population, long term, systemic Dermal worker industrial, long term, systemic general population, long term, systemic Inhalative worker industrial, long term, systemic general population, long term, systemic		worker industri	al, long term, systemic	348.4 mg/m3 (not defined)	
general population, long term, systemic 40220-08-4 (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate Oral general population, long term, systemic worker industrial, long term, systemic general population, long term, systemic general population, long term, systemic worker industrial, long term, systemic general population, long term, systemic general gen				,	
40220-08-4 (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate Oral general population, long term, systemic worker industrial, long term, systemic general population, long term, systemic general population, long term, systemic worker industrial, long term, systemic general population, long term, systemic general population, long term, systemic general population, long term, systemic 0.29 mg/m3 (not defined)		•		,	
Oral general population, long term, systemic Dermal worker industrial, long term, systemic general population, long term, systemic Inhalative worker industrial, long term, systemic general population, long term, systemic general population, long term, systemic general population, long term, systemic 0.29 mg/m3 (not defined)		general popula	tion, long term, systemic	74.3 mg/m3 (not defined)	
Dermal worker industrial, long term, systemic general population, long term, systemic worker industrial, long term, systemic general population, long term, systemic general population, long term, systemic general population, long term, systemic 0.29 mg/m3 (not defined)	40220-08-	8-4 (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate			
general population, long term, systemic nhalative worker industrial, long term, systemic general population, long term, systemic general population, long term, systemic 0.83 mg/Kg/d (not defined) 1.65 mg/m3 (not defined) 0.29 mg/m3 (not defined)	Oral	general population, long term, systemic		, , , , , , , , , , , , , , , , , , ,	
Inhalative worker industrial, long term, systemic general population, long term, systemic 0.29 mg/m3 (not defined)	Dermal			,	
general population, long term, systemic 0.29 mg/m3 (not defined)		. , ,	, ,	, , , , , , , , , , , , , , , , , , ,	
	Inhalative			, ,	
		general popula	tion, long term, systemic	0.29 mg/m3 (not defined)	



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52400 04 4 mlyaayal maa		J 4	andia asid	(Contd. of pa
52408-84-1 glycerol, propoxylated, esters with acrylic acid Dermal worker industrial, long term, systemic 2.1 mg/Kg/d (not defined)				
	_	-	2.1 mg/Kg/d (not defined)	
Inhalative worker industrial,			7.4 mg/m3 (not defined)	
55818-57-0 Bisphenol A Dig			,	
Dermal worker industrial,	_	-	17.5 mg/Kg/d (not defined)	
Inhalative worker industrial,			122.5 mg/m3 (not defined)	
75980-60-8 diphenyl(2,4,6-t			-	
	_	-	0.0833 mg/Kg (not defined)	
Dermal worker industrial,	_	-	0.233 mg/Kg/d (not defined)	
general population	_	•	0.0833 mg/Kg/d (not defined)	
Inhalative worker industrial,	_	-	0.822 mg/m3 (not defined)	
general population	n, long i	term, systemic	0.145 mg/m3 (not defined)	
· PNECs				
80-62-6 methyl methacryla	te			
freshwater		0.94 mg/l (not	defined)	
marine water		0.094 mg/l (no	t defined)	
sewage treatment plant		10 mg/l (not de	efined)	
sediment, dry weight, freshw	ater	10.2 mg/Kg (not defined)		
sediment, dry weight, marine	water	0.102 mg/Kg (not defined) 1.48 mg/Kg (not defined)		
soil, dry weight				
40220-08-4 (2,4,6-trioxo-1,3	,5-triaz	zinane-1,3,5-tr	iyl)triethylene triacrylate	
freshwater		0.00943 mg/l (not defined)	
marine water		0.000943 mg/l	(not defined)	
sewage treatment plant		10 mg/l (not de	efined)	
sediment, dry weight, freshw	ater	0.62 mg/Kg (n	ot defined)	
sediment, dry weight, marine	water	0.062 mg/Kg (not defined)	
soil, dry weight		0.118 mg/Kg (not defined)	
52408-84-1 glycerol, propo	xylated	l, esters with a	acrylic acid	
freshwater		0.006 mg/l (no	t defined)	
marine water		0.001 mg/l (no	t defined)	
sewage treatment plant		10 mg/l (not de	efined)	
sediment, dry weight, freshw	ater	0.078 mg/Kg (not defined)	
sediment, dry weight, marine		0.008 mg/Kg (not defined)	
soil, dry weight 0 55818-57-0 Bisphenol A Diglycidyle freshwater 0 marine water 0 intermediate water release 1 sewage treatment plant 1		0.012 mg/Kg (not defined)	
			-	
		0.1 mg/l (not a	lefined)	
		0.01 mg/l (not	defined)	
		1 mg/l (not det	fined)	
		10 mg/l (not de	efined)	
		35.8 mg/Kg (n	- 1 - 1 - ft 1\	



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soil, dry w	veight veight	71 mg/Kg (not defined)
75980-60	-8 diphenyl(2,4,6-trimeth	ylbenzoyl)phosphine oxide
freshwate	r	0.0014 mg/l (not defined)
marine wa	ater	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 w	veight	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 section 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:

Not neccessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (filter A).

· Hand protection

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

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.

recommended

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.

· 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.

· For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Butyl rubber, BR

- Nitrile rubber, NBR
 Eye/face protection Tightly sealed safety glasses.
- · Body protection: Light weight protective clothing

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state Fluid · Colour: Yellow

Smell: Characteristic
 Odour threshold: Not determined.
 Melting point/freezing point: Not determined

Boiling point or initial boiling point and

boiling range 100 °C
• Flammability Not applicable

· Flammability Not applicable. · Lower and upper explosion limit

• Lower: 2.1 Vol %
• Upper: 12.5 Vol %

· Flash point: 13 °C · Auto-ignition temperature: 430 °C

· Decomposition temperature: Not determined.

·SAPT

Palaseal > 60 °C

SADT

· **pH** Mixture is non-soluble (in water).

Viscosity:
Kinematic viscosity

· Kinematic viscosity Not determined.

· Kinematic viscosity

· dynamic at 20 °C: 11 mPas

Solubility

• Water: Not miscible or difficult to mix

· Partition coefficient n-octanol/water (log

value) Not determined.

· Steam pressure at 20 °C: 47 hPa

· Vapour pressure:

Density and/or relative density

Density at 20 °C
 Relative density
 Vapour density
 Not determined.
 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** 504.9 g/l

· Change in condition

· Evaporation rate Not determined.

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1d55E5	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void

Information with regard to physical hazard

· Aerosols Void
· Oxidising gases Void
· Gases under pressure Void

• Flammable liquids Highly flammable liquid and vapour.

Flammable solids
Self-reactive substances and mixtures
Pyrophoric liquids
Pyrophoric solids
Self-heating substances and mixtures
Substances and mixtures
Substances and mixtures
Flammable gases in contact with water
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: No further relevant information available.
- · 10.6 Hazardous decomposition products: None
 - · Additional information:

If stored longer than recommended and/or above recommended temperature, product may polymerize generating heat.

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/L(· LD/LC50 values that are relevant for classification:				
80-62-6 me	80-62-6 methyl methacrylate				
Oral	Oral LD50 ~7,900 mg/kg (rat)				
Dermal	Dermal LD50 >5,000 mg/kg (guinea pig) (OECD 402)				
Inhalative LC50/4 h 29.8 mg/l (rat)		29.8 mg/l (rat)			
40220-08-4 (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate					
Oral LD50 >2,000 mg/kg (rat) (OECD 423)		>2,000 mg/kg (rat) (OECD 423)			

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52408-84-1 g	52408-84-1 glycerol, propoxylated, esters with acrylic acid				
Oral	LD50	>2,000 mg/kg (rat) (OECD 401)			
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)			
55818-57-0 B	Sisphenol A D	Diglycidylether Diacrylate (BADGE-DA)			
Oral	LD0	>2,000 mg/kg (rat) (OECD 401)			
Dermal	LD0	>2,000 mg/kg (rat) (OECD 402)			
Sensitisation sensitization (human)		(human)			
		(mouse) (LLNA)			
75980-60-8 d	iphenyl(2,4,6	-trimethylbenzoyl)phosphine oxide			
Oral	LD50	>5,000 mg/kg (rat) (OECD 401)			
Dermal LD50		>2,000 mg/kg (rat) (OECD 402)			
Polysiloxane hexa-acrylate					
Oral LD50 >2,000 mg/kg (rat)		>2,000 mg/kg (rat)			
Dermal LD50 >2,000 mg/kg (rabbit)		>2,000 mg/kg (rabbit)			

- · Skin corrosion/irritation
- Causes skin irritation.
- Serious eye damage/irritation
- Causes sérious 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
- May damage fertility. Suspected of damaging the unborn child.
- · 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.
- · Additional toxicological information:
 - CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Repr. 1B
- · 11.2 Information on other hazards
 - · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicit	· 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)			

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	>110 mg/l (algae) (OECD 201)				
	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)				
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)				
52408-84-1 g	lycerol, propoxylated, esters with acrylic acid				
EC50/48h	91.4 mg/l (daphnia) (OECD 202)				
LC50/96h	5.74 mg/l (fish) (OECD 203)				
ErC50 / 72 h	12.2 mg/l (algae) (OECD 201)				
NOEC / 96h	1.59 mg/l (fish) (OECD 203)				
ErC10/72h	2.06 mg/L (algae) (OECD 201)				
55818-57-0 E	55818-57-0 Bisphenol A Diglycidylether Diacrylate (BADGE-DA)				
EC50/72h	>110 mg/l (algae) (OECD 201)				
LC50/96h	>79 mg/l (fish) (OECD 203)				
75980-60-8 c	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 Persisto	ence and degradability				
	nyl methacrylate				
Biodegradation	on 94 % /14d (not defined) (OECD 301C)				
40220-08-4 (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate				
Biodegradation	on 14.5-19.7 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)				
52408-84-1 glycerol, propoxylated, esters with acrylic acid Biodegradation 72-85 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C) 75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide					
					on 0-10 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)
				· 12.3 Bioaccumulative potential	
12.3 Bioaccu	75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide				
	liphenyi(2,4,6-trimethyibenzoyi)phosphine oxide				



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· 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 product to reach ground water, water bodies or sewage system. Danger to drinking water if even small quantities leak into soil.

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
 - Recommendation

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

Disposal must be made according to official regulations.

- · Waste disposal key number: 55512
- Uncleaned packagings:
 - Recommendation:

Disposal must be made according to official regulations. Non contaminated packagings can be used for recycling.

SECTION 14: Transport information	
· 14.1 UN number or ID number · ADR, IMDG, IATA	UN1993
· 14.2 UN proper shipping name	
ADR	1247 METHYL METHACRYLATE MONOMER STABILIZED solution
· IMDG	FLAMMABLE LIQUID, N.O.S. (METHY METHACRYLATE MONOMER, STABILIZED (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triy triethylene triacrylate), MARINE POLLUTANT
· IATA	FLAMMABLE LIQUID, N.O.S. (METHY METHACRYLATE MONOMER, STABILIZEL (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triy triethylene triacrylate)
	(Contd. on page

- GB



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· 14.3 Transport hazard class(es)	
· ADR	
· Class · Label	3 (F1) Flammable liquids. 3
·IMDG	
· Class	2 Elammahla liquida
· Label	3 Flammable liquids. 3
·IATA	
· Class · Label	3 Flammable liquids. 3
14.4 Packing group ADR, IMDG, IATA	II
14.5 Environmental hazards: Marine pollutant: Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Flammable liquids.
Kemler Number: EMS Number:	33 <i>F-E,S-E</i>
· Stowage Category	, <u>2,3 2</u> В
· 14.7 Maritime transport in bulk according to instruments	IMO Not applicable.
· Transport/Additional information:	-
ADR	41
· Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inne
	packaging: 30 ml Maximum net quantity per oute packaging: 500 ml
	(Contd. on page 1:



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	(Contd. of page 12)
· Transport category · Tunnel restriction code	2 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L 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
 - Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t
 - Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t
- 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.

Causes skin irritation. H315

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

Causes serious eye irritation. H319

H335 May cause respiratory irritation.

H360Fd May damage fertility. Suspected of damaging the unborn child.

Toxic to aquatic life with long lasting effects. H411

Abbreviations and acronyms:

SADT: Self Accelerating Decomposition Temperature SAPT: Self Accelerating Polymerisation Temperature

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the

International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

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

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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. 1B: Reproductive toxicity — Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) — Category 3
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard — Category 2
* Data compared to the previous version altered.