

Page 1/13

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

Printing date 04.08.2022

Version number 4

Revision: 04.08.2022

 1.1 Product identifier Trade name: Palaseal 2.2 Relevant identified uses of the substance or mixture and uses a do further relevant information available. Application of the substance / the mixture Auxiliary for manufacture 3.3 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 4 Emergency telephone number: Emergency CONTACT (24-Hour-N 5ECTION 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. 	re of dental prothesis Tel.: +49 (0)800 437252
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FIAM. LIG. 2 H225 HIGNIY TIAMMADIE IIQUID 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. 2 H361f Suspected of damaging fertility.	
STOT SE 3 H335 May cause respiratory irritation.	
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.	·
Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regula Hazard pictograms GHS02 GHS05 GHS07 GHS08 GHS09	ition.
· 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 glycerol, propoxylated, esters with acrylic acid Bisphenol A Diglycidylether Diacrylate (BADGE-DA) maleic anhydride Hazard statements H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H361f Suspected of damaging fertility. H335 May cause respiratory irritation. 	
H411 Toxic to aquatic life with long lasting effects.	(Contd. on page



Page 2/13

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

Printing date 04.08.2022

Version number 4

Revision: 04.08.2022

Trade name: Palaseal

(Contd. of page 1)

- Precautionary statements
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P261 Avoid breathing mist/vapours/spray.
- P273Avoid release to the environment.P280Wear protective gloves / eye protection.P309+P311IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.P405Store locked up.
- · 2.3 Other hazards -

· Results of PBT and vPvB assessment

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

3.2 Mixtures Description: Product based of	on methacrylates	
 Dangerous components: 		
EINECS: 201-297-1	methyl methacrylate Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	≥25- <i>≤</i> 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	<i>≥</i> 25- <i>≤</i> 50%
	glycerol, propoxylated, esters with acrylic acid Eye Irrit. 2, H319; Skin Sens. 1, H317	10%
	Bisphenol A Diglycidylether Diacrylate (BADGE-DA) Aquatic Chronic 2, H411 Skin Sens. 1, H317	<i>≥</i> 5- <i>≤</i> 10%
CAS: 75980-60-8 EINECS: 278-355-8 Reg.nr.: 01-2119972295-29-xxxx	diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Repr. 2, H361f Aquatic Chronic 2, H411 Skin Sens. 1B, H317	<i>≥</i> 3- <i>≤</i> 5%
	Polysiloxane hexa-acrylate Eye Irrit. 2, H319	<i>≥</i> 0- <i>≤</i> 5%
EINECS: 203-571-6	maleic anhydride Resp. Sens. 1, H334; STOT RE 1, H372 Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Sens. 1A, H317 Specific concentration limit: Skin Sens. 1A; H317: C≥ 0.001 %	≥0-<0.0019

(Contd. on page 3)



Page 3/13

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

Printing date 04.08.2022

Version number 4

Revision: 04.08.2022

Trade name: Palaseal

(Contd. of page 2)

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 -

· 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.

SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling Keep containers tightly sealed. 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.

(Contd. on page 4) GB



Page 4/13

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

Printing date 04.08.2022

Version number 4

Revision: 04.08.2022

(Contd. of page 3)

Trade name: Palaseal

- 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.

	ol parameters			
•		-	e monitoring at the workplace:	
	ethyl methacry			
WEL (Gre	at Britain)	Short-term value: 416 m	g/m ³ , 100 ppm	
	ronoon Union)	Long-term value: 208 mg		
IUELV (El	nopean Union)	Short-term value: 100 pp Long-term value: 50 ppn	וות ח	
108-31-6	naleic anhydri		-	
WEL (Gre		Short-term value: 3 mg/r	n³	
•	,	Long-term value: 1 mg/n	n ³	
		Sen		
· DN	-	-		
	ethyl methacry	•		
Oral	• • •	tion, long term, systemic		
Dermal		al, long term, systemic	13.67 mg/Kg/d (not defined)	
			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 industri	al, long term, local	208 mg/m3 (not defined)	
	general popula	tion, acute, local	208 mg/m3 (not defined)	
			74.3 mg/m3 (not defined)	
40220-08-			iyl)triethylene triacrylate	
Oral			0.083 mg/Kg (not defined)	
Dermal	worker industri	al, long term, systemic	2.3 mg/Kg/d (not defined)	
	general popula	tion, long term, systemic	0.83 mg/Kg/d (not defined)	
Inhalative	worker industri	al, long term, systemic	1.65 mg/m3 (not defined)	
	general popula	tion, long term, systemic	0.29 mg/m3 (not defined)	
52408-84-	1 glycerol, pro	poxylated, esters with a	acrylic acid	
Dermal	worker industri	al, long term, systemic	2.1 mg/Kg/d (not defined)	
Inhalative	worker industri	al, long term, systemic	7.4 mg/m3 (not defined)	
55818-57-	0 Bisphenol A	Diglycidylether Diacryl	ate (BADGE-DA)	
Dermal	worker industrial, long term, systemic		17.5 mg/Kg/d (not defined)	
Inhalative			122.5 mg/m3 (not defined)	
75980-60-	8 diphenyl(2,4	,6-trimethylbenzoyl)pho	sphine oxide	
Oral	general popula	tion, long term, systemic	0.0833 mg/Kg (not defined)	
Dermal	worker industri	al, long term, systemic	0.233 mg/Kg/d (not defined)	
	general popula	tion, long term, systemic	0.0833 mg/Kg/d (not defined)	
Inhalative	• • •	al, long term, systemic	0.822 mg/m3 (not defined)	



Page 5/13

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

Printing date 04.08.2022

Version number 4

Revision: 04.08.2022

Trade name: Palaseal

general population, long	term, systemic 0.145 mg/m3 (not defined)	(Contd. of pa
PNECs		
80-62-6 methyl methacrylate		
freshwater	0.94 mg/l (not defined)	
marine water	0.094 mg/l (not defined)	
sewage treatment plant	10 mg/l (not defined)	
sediment, dry weight, freshwater	10.2 mg/Kg (not defined)	
sediment, dry weight, marine water		
soil, dry weight	1.48 mg/Kg (not defined)	
	zinane-1,3,5-triyl)triethylene triacrylate	
freshwater	0.00943 mg/l (not defined)	
marine water	0.000943 mg/l (not defined)	
sewage treatment plant	10 mg/l (not defined)	
sediment, dry weight, freshwater	0.62 mg/Kg (not defined)	
sediment, dry weight, marine water	,	
soil, dry weight	0.118 mg/Kg (not defined)	
52408-84-1 glycerol, propoxylate	· · · · · · · · · · · · · · · · · ·	
freshwater	0.006 mg/l (not defined)	
marine water	0.001 mg/l (not defined)	
sewage treatment plant	10 mg/l (not defined)	
sediment, dry weight, freshwater	0.078 mg/Kg (not defined)	
sediment, dry weight, marine water		
soil, dry weight	0.012 mg/Kg (not defined)	
55818-57-0 Bisphenol A Diglycidy	· · · · · · · · · · · · · · · · · ·	
freshwater	0.1 mg/l (not defined)	
marine water	0.01 mg/l (not defined)	
intermediate water release	1 mg/l (not defined)	
sewage treatment plant	10 mg/l (not defined)	
sediment, dry weight, freshwater	35.8 mg/Kg (not defined)	
soil, dry weight	71 mg/Kg (not defined)	
75980-60-8 diphenyl(2,4,6-trimeth	ylbenzoyl)phosphine oxide	
freshwater	0.0014 mg/l (not defined)	
marine water	0.00014 mg/l (not defined)	
sediment, dry weight, freshwater	0.115 mg/Kg (not defined)	
sediment, dry weight, marine water	0.0115 mg/Kg (not defined)	
soil, dry weight	0.0222 mg/Kg (not defined)	
Additional information: The	lists that were valid during the compilation were	used as bas
8.2 Exposure controls Appropriate engineering controls Individual protection measure General protective and hyg Keep away from foodstuffs, b Instantly remove any soiled a Wash hands during breaks a	s, such as personal protective equipment ienic measures beverages and food. and impregnated garments.	
Avoid contact with the eyes a		
,		(Contd. on pa



Page 6/13

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

Printing date 04.08.2022

Version number 4

Revision: 04.08.2022

(Contd. of page 5)

GB

Trade name: Palaseal

· 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

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

SECTION 9: 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.
· Lower and upper explosion limit	
· Lower:	2.1 Vol %
· Upper:	12.5 Vol %
	13 °C
· Flash point:	
Ignition temperature:	430 °C
 Decomposition temperature: 	Not determined.
·SAPT	
Palaseal > 60 °C	
·SADT	
· pH	Mixture is non-soluble (in water).
· Viscosity:	
· Kinematic viscosity	Not determined.
· dynamic at 20 °C:	11 mPas



Page 7/13

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

Printing date 04.08.2022

Version number 4

Revision: 04.08.2022

Trade name: Palaseal

Solubility	(Contd. of pag
Solubility Water:	Not miscible or difficult to mix
· Partition coefficient n-octanol/water (le	
value)	Not determined.
· Steam pressure at 20 °C:	47 hPa
Density and/or relative density	
· Density at 20 °C	1.060 g/cm³
Relative density	Not determined.
· Vapour density	Not determined.
• 9.2 Other information	lo 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
	explosive air/vapour mixtures is possible.
· Solvent content:	
· VOC EU	504.9 g/l
Change in condition	
· Evaporation rate	Not determined.
Information with regard to physical hazar	rd .
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	
· Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures Substances and mixtures, which emit	Void
flammable gases in contact with water	r Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void
Deschshista explosives	VUIU

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

- 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

(Contd. on page 8) ĠВ



Page 8/13

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

Printing date 04.08.2022

Version number 4

Revision: 04.08.2022

(Contd. of page 7)

Trade name: Palaseal

· Additional information:

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

• LD/L/C50 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) 40220-08-4 (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate Oral Oral LD50 >2,000 mg/kg (rat) (OECD 423) 52408-84-1 glycerol, propoxylated, esters with acrylic acid Oral Oral LD50 >2,000 mg/kg (rat) (OECD 401) Dermal LD50 >2,000 mg/kg (rat) (OECD 401) Dermal LD0 >2,000 mg/kg (rat) (OECD 402) 55818-57-0 Bisphenol A Diglycidylether Diacrylate (BADGE-DA) Oral D10 >2,000 mg/kg (rat) (OECD 402) Sensitization (muman) (mouse) (LLNA) (mouse) (LLNA) 75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Oral Oral LD50 >2,000 mg/kg (rat) (OECD 402) Polysiloxane hexa-acrylate Oral LD50 Oral LD50 >2,000 mg/kg (rat) Dermal LD50 >2,000 mg/kg (rat) Dermal LD50	11.1 Informa	tion on haza	rd classes as defined in Regulation (EC) No 1272/2008 n available data, the classification criteria are not met.
80-62-6 methyl methacrylate Oral LD50 >7,900 mg/kg (rat) Dermal LD50 >5,000 mg/kg (guinea pig) (OECD 402) Inhalative LC50/4 h 29.8 mg/l (rat) 40220-08-4 (2,4,6-tritoxo-1,3,5-trizinane-1,3,5-triyl)triethylene triacrylate Oral LD50 Oral LD50 >2,000 mg/kg (rat) (OECD 423) 52408-84-1 glycerol, propoxylated, esters with acrylic acid Oral D50 Oral LD50 >2,000 mg/kg (rat) (OECD 401) Dermal LD50 >2,000 mg/kg (rat) (OECD 402) 55818-57-0 Bisphenol A Diglycidylether Diacrylate (BADGE-DA) Oral Oral LD0 >2,000 mg/kg (rat) (OECD 402) Sensitisation sensitization (muan) (muan) (mouse) (LLNA) T5980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Oral LD50 >2,000 mg/kg (rat) (OECD 401) Dermal LD50 >2,000 mg/kg (rat) Dermal			
Oral LD50 ~7,900 mg/kg (rat) Dermal LD50 >5,000 mg/kg (guinea pig) (OECD 402) Inhalative LC50/4 h 29.8 mg/l (rat) 40220-08-4 (2,4,6-trixor-1,3,5-trizinane-1,3,5-triyl)triethylene triacrylate Oral LD50 >2,000 mg/kg (rat) (OECD 423) 52408-84-1 glycerol, propoxylated, esters with acrylic acid Oral Oral LD50 >2,000 mg/kg (rat) (OECD 401) Dermal LD50 >2,000 mg/kg (rat) (OECD 402) 55818-57-0 Bisphenol A Diglycidylether Diacrylate (BADGE-DA) Oral Oral LD0 >2,000 mg/kg (rat) (OECD 401) Dermal LD0 >2,000 mg/kg (rat) (OECD 402) Stsitisation sensitization (mouse) (LLNA) 75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Oral Oral LD50 >2,000 mg/kg (rat) (OECD 401) Dermal LD50 >2,000 mg/kg (rat) Dermal LD50 >2,000 mg/kg (rat) Oral LD50 >2,000 mg/kg (rat) Dermal LD50 >2,000 mg/kg (rat) Dermal LD50 >2,000 mg/kg (rat) Oral LD50 >2,000 mg/k			
DermalLD50>5,000 mg/kg (guinea pig) (OECD 402)InhalativeLC50/4 h29.8 mg/l (rat)40220-08-4 (2,4,6-trioxo-1,3,5-trizzinane-1,3,5-trizyl)triethylene triacrylateOralLD50>2,000 mg/kg (rat) (OECD 423)52408-84-1 glycerol, propoxylated, esters with acrylic acidOralLD50>2,000 mg/kg (rat) (OECD 401)DermalLD50>2,000 mg/kg (rat) (OECD 402)5818-57-0 Bisphenol A Diglycidylether Diacrylate (BADGE-DA)OralLD0>2,000 mg/kg (rat) (OECD 401)DermalLD0>2,000 mg/kg (rat) (OECD 402)Sensitisationsensitization(human)(mouse) (LLNA)75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxideOralLD50>2,000 mg/kg (rat) (OECD 401)DermalLD50>2,000 mg/kg (rat) (OECD 402)Polysiloxanehexa-acrylateOralLD50>2,000 mg/kg (rat)DermalLD50>2,000 mg/kg (rat)DermalLD50>2,000 mg/kg (rat)DermalLD50>2,000 mg/kg (rat)Causes skin irritationcauses skin irritationGauses skin irritationSerious eye damage.Respiratory or skin sensitisation May cause respiratory irritation.Germ cell mutagenicity Based on available data, the classification criteria		• •	
Inhalative LC50/4 h 29.8 mg/l (rat) 40220-08-4 (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triy))triethylene triacrylate Oral LD50 >2,000 mg/kg (rat) (OECD 423) 52408-84-1 glycerol, propoxylated, esters with acrylic acid Oral LD50 >2,000 mg/kg (rat) (OECD 401) Dermal LD50 >2,000 mg/kg (rat) (OECD 402) 55818-57-0 Bisphenol A Diglycidylether Diacrylate (BADGE-DA) Oral LD0 >2,000 mg/kg (rat) (OECD 402) Sensitisation sensitization (mouse) (LLNA) 75980-60-8 diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide (mouse) (LLNA) Oral LD50 >2,000 mg/kg (rat) (OECD 402) Polysiloxane hexa-acrylate Oral LD50 Oral LD50 >2,000 mg/kg (rat) (OECD 402) Polysiloxane hexa-acrylate Oral LD50 >2,000 mg/kg (rat) (OECD 402) Polysiloxane hexa-acrylate Oral LD50 >2,000 mg/kg (rat) OECD 402) Polysiloxane hexa-acrylate Oral LD50 >2,000 mg/kg (rat) OECD 402) Skin corrosion/irritation causes skin irritation. Serious eye damage. Respiratory or skin sensitisation			
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) 52408-84-1 glycerol, propoxylated, esters with acrylic acid Oral D50 >2,000 mg/kg (rat) (OECD 401) Dermal LD50 >2,000 mg/kg (rat) (OECD 402) 55818-57-0 Bisphenol A Diglycidylether Diacrylate (BADGE-DA) Oral LD0 >2,000 mg/kg (rat) (OECD 401) 0 Dermal LD0 >2,000 mg/kg (rat) (OECD 402) S5818-57-0 Bisphenol A Diglycidylether Diacrylate (BADGE-DA) 0 Oral LD0 >2,000 mg/kg (rat) (OECD 402) Sensitisation sensitization (human) (mouse) (LLNA) 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) Dermal LD50 >2,000 mg/kg (rat) Dermal LD50 >2,000 mg/kg (rat) Dermal LD50 >2,000 mg/kg (rabbit) Skin corrosion/irritation causes skin irritation. Gauses skin irritation. Serious eye damage. Respiratory or skin seensitisation May cause an alleguic skin reaction. <			
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Page 9/13

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

Printing date 04.08.2022

Version number 4

Revision: 04.08.2022

Trade name: Palaseal

· 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)	
40220-08-4 (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate	
	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)	
	lycerol, propoxylated, esters with acrylic acid	
	91.4 mg/l (daphnia) (OECD 202)	
LC50/96h	5.74 mg/l (fish) (OECD 203)	
	12.2 mg/l (algae) (OECD 201)	
	1.59 mg/l (fish) (OECD 203)	
	2.06 mg/L (algae) (OECD 201)	
	Bisphenol A Diglycidylether Diacrylate (BADGE-DA)	
EC50/72h	>110 mg/l (algae) (OECD 201)	
LC50/96h	>79 mg/l (fish) (OECD 203)	
	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)	
	>2.01 mg/l (algae) (OECD 201)	
ErC10/72h	1.56 mg/L (algae) (OECD 201)	
	ence and degradability	
	hyl methacrylate	
	on 94 % /14d (not defined) (OECD 301C)	
	2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate	
Biodegradatio	on 14.5-19.7 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)	

(Contd. of page 8)



Page 10/13

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

Printing date 04.08.2022

Version number 4

Revision: 04.08.2022

(Contd. on page 11)

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Trade name: Palaseal

	(Contd. of page 9)			
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				
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-trimethylbenzoy	ıl)phosphine oxide			
Bloconcentration factor (BCF) 47-55 (not def	ined)			
 12.4 Mobility in soil No further relevant infor 12.5 Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 12.6 Endocrine disrupting properties For information on endocrine disrupting properties 12.7 Other adverse effects Additional ecological information: General notes: Do not allow product to reach ground we Danger to drinking water if even small of the second s	t erties see section 11. vater, water bodies or sewage system.			
SECTION 13: Disposal consideration • 13.1 Waste treatment methods • Recommendation Must not be disposed of together with how system. Disposal must be made according to offici • Waste disposal key number: 55512	usehold garbage. Do not allow product to reach sewage			
Uncleaned packagings: Recommendation: Disposal must be made according to or Non contaminated packagings can be				
SECTION 14: Transport information	า			
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, MARINE POLLUTANT METHYL METHACRYLATE MONOMER,			
	STABILIZED solution			



Page 11/13

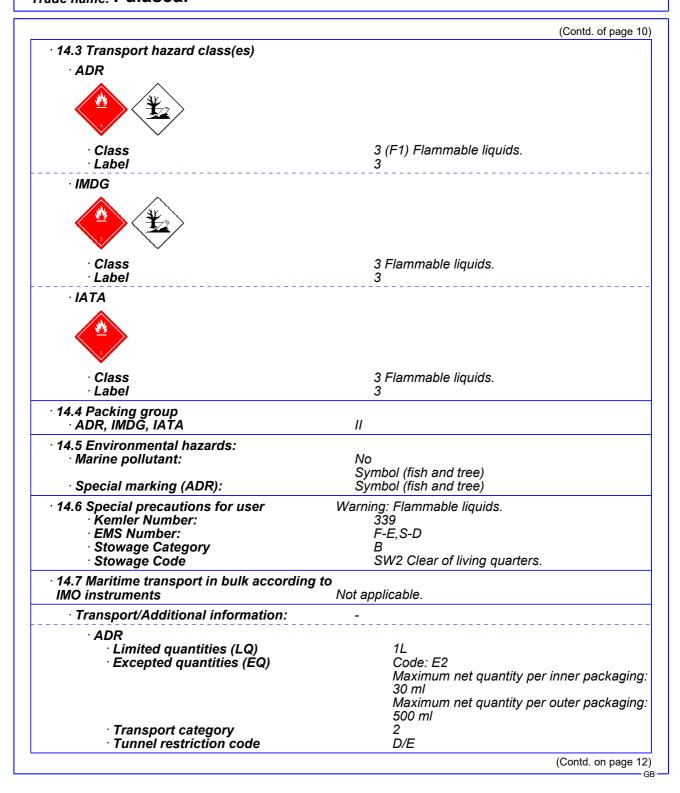
Safety data sheet according to 1907/2006/EC, Article 31

Version number 4

Revision: 04.08.2022

Trade name: Palaseal

Printing date 04.08.2022





Page 12/13

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

Printing date 04.08.2022

Version number 4

Revision: 04.08.2022

Trade name: Palaseal

(Contd. of page 11)

· 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.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H335 May cause respiratory irritation.
- H361f Suspected of damaging fertility.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

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

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

IMDG: International Maritime Code for Dangerous Goods

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 (ÚK REACH) LC50: Lethal concentration, 50 percent

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

vPvB: very Persistent and very Bioaccumulative

(Contd. on page 13)

GB



Page 13/13

GB

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

Printing date 04.08.2022

Version number 4

Revision: 04.08.2022

Trade name: Palaseal

Flam. Liq. 2: Flammable liquids – Category 2 Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1B: Skin corrosion/irritation – Category 1B 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 Resp. Sens. 1: Respiratory sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 1A Skin Sens. 1B: Skin sensitisation – Category 1B Repr. 2: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 * Data compared to the previous version altered. (Contd. of page 12)