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

Printing date 10.01.2024

Version number 4

Revision: 10.01.2024

SECTION 1: Identification of the substance/mixture undertaking	e and of the company/
· 1.1 Product identifier	
· Trade name: Palaseal	
• 1.2 Relevant identified uses of the substance or mixture and uses ad No further relevant information available.	lvised against
 Application of the substance / the mixture Auxiliary for manufacture 	e of dental prothesis
• 1.3 Details of the supplier of the safety data sheet • Manufacturer/Supplier: Kulzer GmbH Leipziger Straße 2, 63450 Hanau (Germany)	Tel.: +49 (0)800 4372522
Informing department: E-Mail: msds@kulzer-dental.com 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Nu	ımber): +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. 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.	
• 2.2 Label elements • Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulat • Hazard pictograms	ion.
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 glycerol, propoxylated, esters with acrylic acid Bisphenol A Diglycidylether Diacrylate (BADGE-DA) Hazard statements H225 Highly flammable liquid and vapour. H315 Causes skin irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. 	
non may cause an anorgie skin reaction.	(Contd. on page 2)



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Trade name: Palaseal

- H361f Suspected of damaging fertility.H335 May cause respiratory irritation.H411 Toxic 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.

P261 Avoid breathing mist/vapours/spray.

- P273 Avoid release to the environment.
- P280 Wear protective gloves / eye protection. P312 Call a POISON CENTER/doctor if you feel unwell.
- 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

CAS: 80-62-6	methyl methacrylate	<i>≥</i> 25-≤50%
EINECS: 201-297-1 Index number: 607-035-00-6	Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 40220-08-4 EINECS: 254-843-6	(2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate	<i>≥</i> 25- <i>≤</i> 50%
Reg.nr.: 01-2120741502-64-xxxx	Eye Dam. 1, H318 Aquatic Chronic 2, H411 Skin Sens. 1B, H317	
CAS: 52408-84-1 NLP: 500-114-5 Reg.nr.: 01-2119487948-12-xxxx	glycerol, propoxylated, esters with acrylic acid Eye Irrit. 2, H319; Skin Sens. 1, H317	10%
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: 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. 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%

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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.
- -

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.

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Trade name: Palaseal

· 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.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Components with critical values that require monitoring at the workplace:

	ethyl methacry		- (
	eat Britain) Short-term value: 416 m Long-term value: 208 mg		g/m³, 50 ppm	
IOELV (Ει	ıropean Union)			
		Long-term value: 50 ppn	า	
	naleic anhydri		-	
WEL (Gre	eat Britain) Short-term value: 3 mg/r Long-term value: 1 mg/n Sen		n³ 1³	
· DN	ELs			
80-62-6 m	ethyl methacry	/late		
Oral	general popula	tion, long term, systemic	8.2 mg/Kg (not defined)	
Dermal	worker industri	al, long term, systemic	13.67 mg/Kg/d (not defined)	
	general popula	tion, long term, systemic	8.2 mg/Kg/d (not defined)	
Inhalative	worker industri	al, acute, local	416 mg/m3 (not defined)	
	worker industri	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-	4 (2,4,6-trioxo-	1,3,5-triazinane-1,3,5-tr	iyl)triethylene triacrylate	
Oral	general popula	tion, long term, systemic	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 population, 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)	



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Trade name: Palaseal

55818-57-0 Bi	sphenol A Diglycidy	lether Diacryl	ate (BADGE-DA)	(Contd. of pag
	worker industrial, long term, systemic 17.5 mg/Kg/d (not defined)			
Inhalative wor	worker industrial, long term, systemic		122.5 mg/m3 (not defined)	
	ohenyl(2,4,6-trimeth			
	eral population, long		0.0833 mg/Kg (not defined)	
5	ker industrial, long te	-	0.233 mg/Kg/d (not defined)	
	eral population, long	•	0.0833 mg/Kg/d (not defined)	
-	ker industrial, long te	-	0.822 mg/m3 (not defined)	
	•	· •	0.145 mg/m3 (not defined)	
· PNECs				
80-62-6 methy	/l methacrylate			
freshwater		0.94 mg/l (not	defined)	
marine water		0.094 mg/l (no	,	
sewage treatm	ent plant	10 mg/l (not de		
-	weight, freshwater	10.2 mg/Kg (n	,	
-	weight, marine water			
soil, dry weight	-	1.48 mg/Kg (n		
			iyl)triethylene triacrylate	
freshwater	,	0.00943 mg/l (
marine water		0.000943 mg/l		
sewage treatm	ent plant	10 mg/l (not de	. ,	
-	weight, freshwater	0.62 mg/Kg (n	,	
-	-			
sediment, dry weight, marine water 0.062 mg/Kg (not defined) soil, dry weight 0.118 mg/Kg (not defined)				
	, vcerol, propoxylate		,	
freshwater	, , , , , ,	0.006 mg/l (no	-	
marine water		0.001 mg/l (no		
sewage treatm	ent plant	10 mg/l (not de		
-	weight, freshwater	0.078 mg/Kg (,	
•	weight, marine water			
soil, dry weight	-	0.012 mg/Kg (,	
	sphenol A Diglycidy		,	
freshwater		0.1 mg/l (not a	, ,	
marine water		0.01 mg/l (not		
	diate water release 1 mg/l (not defined)			
	reatment plant 10 mg/l (not defined			
•	, dry weight, freshwater 35.8 mg/Kg (not defined)			
soil, dry weight	-	71 mg/Kg (not		
	ohenyl(2,4,6-trimeth		,	
freshwater	······································	0.0014 mg/l (n		
				(Contd. on pag

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Trade name: Palaseal

	(Contd. of pa
marine water	0.00014 mg/l (not defined)
sediment, dry weight, freshwater	0.115 mg/Kg (not defined)
sediment, dry weight, marine water	
soil, dry weight	0.0222 mg/Kg (not defined)
· · ·	e lists that were valid during the compilation were used as basis.
 Individual protection measure General protective and hyg Keep away from foodstuffs, b Instantly remove any soiled a Wash hands during breaks a Avoid contact with the eyes a Breathing equipment: Not neccessary with efficier protective mask (filter A). Hand protection The glove material has to preparation. Selection of the glove material 	neverages and food. And impregnated garments. nd at the end of the work.
sensitization. Solvent resistant gloves	avoided, protective gloves are recommended to avoid poss r to each use for their proper condition.
The selection of the suita marks of quality and varie of several substances, th and has therefore to be ch Penetration time of glov The exact break trough ti and has to be observed.	ime has to be found out by the manufacturer of the protective glo tact of a maximum of 15 minutes gloves made of the follow sealed safety glasses.
SECTION 9: Physical and cl	hemical properties
-	and chemical properties
9.1 Information on basic physical General Information	l and chemical properties
9.1 Information on basic physical	I and chemical properties Fluid

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Trade name: Palaseal

Smell: Characteristic · Odour threshold: Not determined. · Melting point/freezing point: Not determined. · Boiling point or initial boiling point and boiling range 100 °C · Lower: 2.1 Vol % · Lower: 125 Vol % · Flash point: 13 °C · Auto-ignition temperature: 430 °C · Auto-ignition temperature: Not determined. · SAPT Pelaseal > 60 °C · SADT Mixture is non-soluble (in water). · Short · Short · Short Not determined. · SADT Mixture is non-soluble (in water). · Short · Short · Solubility Not determined. · Solubility Not determined. · Steam pressure at 20 °C: 11 mPas · Density and/or relative density Not determined. · Steam pressure at 20 °C: 47 hPa · Steam pressure at 20 °C: 47 hPa · Vapour density Not determined.		(Contd. of page
Melting point/freezing point: Not determined Boiling point or initial boiling point and boiling range 100 °C Not applicable. Lower and upper explosion limit 2.1 Vol % · Lower: 2.1 Vol % · Upper: 12.5 Vol % · Flash point: 13 °C · Auto-ignition temperature: Not determined. · SAPT Not determined. · Shert Not determined. · Shert Not determined. · Skicsosity: Not determined. · Wiscosity: Not determined. · Water: Not miscible or difficult to mix · Partition coefficient n-octanol/water (log value) Not determined. · Steam pressure at 20 °C: 47 hPa · Density and/or relative density Not determined. · Vapour pressure: 1.060 g/cm ³ · Peratition coefficient n-octanol/water (log Not determined. · Vapour density Not determined. · Steam pressure at 20 °C: 1.060 g/cm ³	· Smell:	Characteristic
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 12.5 Vol % · Lower: 2.1 Vol % · Upper: 12.5 Vol % · Flash point: 13 °C · Auto-ignition temperature: Not determined. · SAPT Not determined. · Skert: Not determined. · Skicosity: Not determined. · Viscosity: Not determined. · Water: Not miscible or difficult to mix · Partition coefficient n-octanol/water (log value) Not determined. · Steam pressure at 20 °C: 47 hPa · Density and/or relative density Not determined. · Vapour pressure: 1.060 g/cm³ · Pensity at 20 °C 1.060 g/cm³ · Appearance: Fluid · Form: Fluid · Solubility: Product is not selfigniting.	· Odour threshold:	Not determined.
Boiling point or initial boiling point and boiling range 100 °C Flammability Not applicable. · Lower and upper explosion limit 2.1 Vol % · Lower: 2.1 Vol % · Upper: 12.5 Vol % · Flash point: 13 °C · Auto-ignition temperature: Not determined. · SAPT Not determined. Palaseal > 60 °C · · SAPT Not determined. · SAPT Not determined. · SAPT · · PH Mixture is non-soluble (in water). · Viscosity: · · Kinematic viscosity Not determined. · Water: Not miscible or difficult to mix · Partition coefficient n-octanol/water (log value) Not determined. · Vapour pressure: · · Density at 20 °C: 47 hPa · Vapour density Not determined. ·		
boiling range 100 °C Flammability Not applicable. Lower and upper explosion limit 2.1 Vol % . 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 Not determined. . Wiscosity: Not determined. . Kinematic viscosity Not determined. . Kinematic viscosity Not determined. . Water: Not miscible or difficult to mix . Solubility Water: Not miscible or difficult to mix . Stam pressure at 20 °C: 47 hPa Vapour pressure: Density and/or relative density . Density at 20 °C 1.060 g/cm³ . Relative density Not determined. . Vapour density Not determined. . Appearance: . . Form: Fluid 'Important information on protection of health and environment, and on safety. . . Sole-finalmamability: Product is not selfigniting. .	· Boiling point or initial boiling point and	
Flammability Not applicable. Lower and upper explosion limit 2.1 Vol % Lower: 2.1 Vol % Upper: 12.5 Vol % Flash point: 13 °C Auto-ignition temperature: 430 °C Decomposition temperature: Not determined. SAPT Palaseal Palaseal > 60 °C SADT Not determined. · bH Mixture is non-soluble (in water). · Viscosity: Not determined. · Kinematic viscosity Not determined. · Water: Not miscible or difficult to mix · Partition coefficient n-octanol/water (log Not determined. · Value) Steam pressure at 20 °C: 47 hPa · Vapour pressure: · Density at 20 °C 1.060 g/cm³ · Vapour density Not determined. · Vapour density · Density at 20 °C 1.060 g/cm³ · Relative density · Density at 20 °C 1.060 g/cm³ · Relative density · Density at 20 °C 1.060 g/cm³ · Relative density · Density at 20 °C 1.060 g/cm³ · Relative density · Density at 20 °C		100 °C
· Lower and upper explosion limit · Lower: · Upper: · Lower: · Upper: · 12.5 Vol % · Jassed > 60 °C · Auto-ignition temperature: · Jecomposition temperature: · Decomposition temperature: · Not determined. · SAPT · PH · Viscosity: · Kinematic viscosity · Viscosity: · Viscosity: · Viscosity: · Vanamic at 20 °C: · Junamic at 20 °C: · Density and/or relative density · Density and/or relative density · Density at 20 °C · Relative density · Self-inflammability: · Solvent content: · VoC EU · Change in condition · Explosives · Void · Farmabile gases · Void · Aerosols · Void	· Flammability	
· Lower: 2.1 Vol % · Upper: 12.5 Vol % · Hash point: 13 °C · Auto-ignition temperature: Valo °C · Decomposition temperature: Not determined. · SAPT Palaseal > 60 °C · SADT Not determined. · PH Mixture is non-soluble (in water). · Viscosity: Not determined. · Viscosity: Not determined. · Viscosity: Not determined. · Vanematic viscosity Not miscible or difficult to mix · Vanematic viscosity Not miscible or difficult to mix · Vanuer: Not miscible or difficult to mix · Vanuer pressure at 20 °C: 47 hPa · Vapour pressure: 1.060 g/cm³ · Density and/or relative density Not determined. · Density at 20 °C 1.060 g/cm³ · Relative density Not determined. · Vapour density Not determined. · Vapour density Not further relevant information available. · Appearance: · Fluid · Form: Fluid · Solvent content: · Product is not selfigniting. · Sett-		
· Upper: 12.5 Vol % · Flash point: 13 °C · Auto-Ignition temperature: 430 °C · Decomposition temperature: Not determined. · Decomposition temperature: Not determined. · SAPT Palaseal ≥ 60 °C · SADT Mixture is non-soluble (in water). · Pilaseal ≥ 60 °C · · SADT Mixture is non-soluble (in water). · Viscosity: Not determined. · Kinematic viscosity Not determined. · Solubility 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 Not determined. · Vapour gressure at 20 °C: 47 hPa · Vapour gressure: · · Density and 20 °C 1.060 g/cm³ · Partition coefficient n-octanol/water (log value) · · Vapour gressure: · · Density and/or relative density Not determined. · Vapour gressure: · · Pormity at 20 °C 1.060 g/cm³		211019
 Flash point: 13 °C Auto-ignition temperature: 430 °C Decomposition temperature: Not determined. SAPT Palassea! > 60 °C SADT pH Kinematic viscosity Kinematic viscosity Auto-ignition temperature: Not determined. Viscosity: Not determined. Kinematic viscosity Anto advantic at 20 °C: 11 mPas Solubility Water: Not miscible or difficult to mix Partition coefficient n-octanol/water (log value) Vater: Not determined. Steam pressure at 20 °C: 47 hPa Vapour pressure: Density and/or relative density Density and/or relative density Not determined. Vapour pressure: Obersity at 20 °C Solubility Steam pressure at 20 °C: 47 hPa Vapour pressure: Density and/or relative density Not determined. Vapour pressure: Solvent content: Solvent content: Solvent content: Solvent content: Solvent content: VOC EU Solvent content:<td></td><td></td>		
· Auto-İgnition temperature: 430 °C · Decomposition temperature: Not determined. · SAPT Palaseal ≥ 60 °C · SADT · pH · pH Mixture is non-soluble (in water). · Viscosity: · Not determined. · Kinematic viscosity Not determined. · Kinematic viscosity Not determined. · dynamic at 20 °C: 11 mPas · Solubility Not miscible or difficult to mix · Partition coefficient n-octanol/water (log value) Not determined. · Steam pressure at 20 °C: 47 hPa · Density and/or relative density Not determined. · Density at 20 °C 1.060 g/cm³ · Patieve density Not determined. · Density at 20 °C 1.060 g/cm³ · Papearance: · Product is not selfigniting. · Form: Fluid · Important information on protection of health and environment, and on safety. Product is not explosive. However, formation explosive air/vapour mixtures is possible.		
Decomposition temperature: Not determined. • SAPT Palaseal > 60 °C • SADT Mixture is non-soluble (in water). • PH Mixture is non-soluble (in water). • Viscosity: Not determined. • Kinematic viscosity Not miscible or difficult to mix • Aprention coefficient n-octanol/water (log Not determined. • Value) Not determined. • Steam pressure at 20 °C: 47 hPa • Vapour pressure: • Density and/or relative density • Density and/or relative density Not determined. • Vapour pressure: • Not determined. • Vapour density Not determined. • Vapour pressure: • Density and/or relative density • Density and/or relative density Not determined. • Vapour density Not determined. • Vapour density Not determined. • Parmatic information on protection of health and environment, and on safety. • Foduct is not explosive. However, formation explosive eair/vapour mixtures is possible. • Solven		
SAPT Palaseal > 60 °C SADT · pH Mixture is non-soluble (in water). · Viscosity: Not determined. · Kinematic viscosity Not determined. · Water: 11 mPas · Solubility Not miscible or difficult to mix · Partition coefficient n-octanol/water (log value) Not determined. · Steam pressure at 20 °C: 47 hPa · Density and/or relative density Density and/or relative density · Density and/or relative density Not determined. · Vapour pressure: 1.060 g/cm³ · Density at 20 °C 1.060 g/cm³ · Partition coefficient n-octanol /water (log value) Not determined. · Vapour pressure: 1.060 g/cm³ · Density at 20 °C 1.060 g/cm³ · Density at 20 °C 1.060 g/cm³ · Density at 20 °C 1.060 g/cm³ · Vapour density Not determined. · Vapour density Not further relevant information available. · Appearance: · Form: · Form: Fluid Important information on protection of health and environment, and on safety. · Solvent content: <td>Auto-ignition temperature:</td> <td></td>	Auto-ignition temperature:	
Palaseal > 60 °C • SADT • pH Mixture is non-soluble (in water). • Viscosity: Not determined. • Kinematic viscosity Not determined. • dynamic at 20 °C: 11 mPas • Solubility Not miscible or difficult to mix • Water: Not miscible or difficult to mix • Partition coefficient n-octanol/water (log value) Not determined. • Steam pressure at 20 °C: 47 hPa • Density and/or relative density 1.060 g/cm³ • Density and/or relative density Not determined. • Vapour pressure: 1.060 g/cm³ • Density and/or relative density Not determined. • Vapour density Not determined. • Vapour density Not determined. • Vapour density Not determined. • Appearance: • Form: • Form: Fluid Important information on protection of health and environment, and on safety. Product is not selfigniting. • Solvent content: • VOC EU 504.9 g/l • Change in condition • Kaporation rate Not determined. • Information with regard to physical hazard classes Void <td>· Decomposition temperature:</td> <td>Not determined.</td>	· Decomposition temperature:	Not determined.
SADT	SAPT	
· pH Mixture is non-soluble (in water). · Viscosity: Not determined. · Kinematic viscosity Not determined. · dynamic at 20 °C: 11 mPas · Solubility Not miscible or difficult to mix · Water: Not miscible or difficult to mix · Water: Not determined. · Value) Not determined. · Steam pressure at 20 °C: 47 hPa · Vapour pressure: · Density and/or relative density · Density and/or relative density Not determined. · Vapour density Not determined. · Porm: Fluid Important information on protection of health and environment, and on safety. Product is not selfigniting. · Solvent content: · VOC EU 504.9 g/l · Change in condition Not determined. · VOC EU 504.9 g/l · Change in condition Not determined. · Explosives Void · Explosives <t< td=""><td></td><td></td></t<>		
Viscosity: Not determined. Kinematic viscosity 11 mPas Solubility Not miscible or difficult to mix Partition coefficient n-octanol/water (log value) Not determined. Steam pressure at 20 °C: 47 hPa 'Vapour pressure: 0 Density and/or relative density 1.060 g/cm³ · Density at 20 °C 1.060 g/cm³ · Partition coefficient Not determined. · Vapour pressure: 0 · Density at 20 °C 1.060 g/cm³ · Pelative density Not determined. · Vapour density Not determined. · Vapour density Not further relevant information available. · Appearance: Fluid · Form: Fluid · Important information on protection of health and environment, and on safety. Product is not selfigniting. · Solvent content: Solvent content: 504.9 g/l · Vange in condition Solvet content: 504.9 g/l · Unformation with regard to physical hazard classes Void · Explosives Void · Flammable gases Void	-	Mixture is non coluble (in water)
· Kinematic viscosity Not determined. · Kinematic viscosity 11 mPas · dynamic at 20 °C: 11 mPas · Solubility Not miscible or difficult to mix · Water: Not determined. · Water: Not determined. · Water: Not determined. · Vapour pressure at 20 °C: 47 hPa · Vapour pressure: - · Density and/or relative density Not determined. · Density and/or relative density Not determined. · Vapour density Not further relevant information available. · Appearance: - · Form: Fluid · Important information on protection of health and environment, and on safety. Product is not selfigniting. · Solvent content: - · Solvent content: - · VOC EU 504.9 g/l · Change in condition - · Evaporation ra		wixture is non-soluble (in water).
Kinematic viscosity		
• dynamic at 20 °C: 11 mPas • Solubility Not miscible or difficult to mix • Partition coefficient n-octanol/water (log value) Not determined. • Partition coefficient n-octanol/water (log value) Not determined. • Steam pressure at 20 °C: 47 hPa • Vapour pressure: 0 • Density and/or relative density 1.060 g/cm³ • Density at 20 °C 1.060 g/cm³ • Relative density Not determined. • Vapour density Not further relevant information available. • Appearance: • Form: • Form: Fluid Important information on protection of health and environment, and on safety. Product is not selfigniting. • Explosive properties: Product is not selfigniting. • Explosive properties: Product is not explosive. However, formation explosive air/vapour mixtures is possible. • VOC EU 504.9 g/l • Change in condition Not determined. <td>Kinematic viscosity</td> <td>Not determined.</td>	Kinematic viscosity	Not determined.
 Solubility Water: Water: Water: Water: Variation coefficient n-octanol/water (log value) Not miscible or difficult to mix Partition coefficient n-octanol/water (log value) Not determined. Steam pressure at 20 °C: 47 hPa Vapour pressure: 		
· 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: 47 hPa · Density and/or relative density 50 g/cm³ · Density at 20 °C 1.060 g/cm³ · Not determined. Not determined. · Vapour density Not determined. · Vapour density Not further relevant information available. · Vapearance: Fluid · Important information on protection of health and environment, and on safety. Froduct is not selfigniting. · Solvent content: · VOC EU 504.9 g/l · Change in condition Solvent content: 504.9 g/l · Information with regard to physical hazard classes Not determined. · Information with regard to physical hazard classes Void · Flammable gases Void		11 mPas
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 Density and/or relative density Density at 20 °C 1.060 g/cm³ Relative density Not determined. Vapour density Not determined. Yapour density No further relevant information available. Appearance: Form: Form: Fluid Important information on protection of health and environment, and on safety. Self-inflammability: Product is not selfigniting. Explosive properties: Solvent content: VOC EU Solvent content: VOC EU Solvent condition Evaporation rate Not determined. Information with regard to physical hazard classes Explosives Void Flammable gases Void 	· Vapour pressure:	
 Density at 20 °C Relative density Not determined. Vapour density Not determined. Not determined. 9.2 Other information No further relevant information available. Appearance: Form: Form: Form: Fluid Important information on protection of health and environment, and on safety. Self-inflammability: Explosive properties: Solvent content: VOC EU Solvent content: VOC EU Solvent content: VOC EU Solvent content: Information with regard to physical hazard classes Explosives Void Flammable gases Void 	[.] Density and/or relative density	
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· Vapour density Not determined. · 9.2 Other information No further relevant information available. · Appearance: Fluid · Form: Fluid · Important information on protection of health and environment, and on safety. Product is not selfigniting. · Self-inflammability: Product is not selfigniting. · Explosive properties: Product is not explosive. However, formation explosive air/vapour mixtures is possible. · Solvent content: · VOC EU · VOC EU 504.9 g/l · Change in condition Not determined. · Information with regard to physical hazard classes Not determined. · Explosives Void · Flammable gases Void		Not determined.
9.2 Other information No further relevant information available. • Appearance: Fluid • Form: Fluid • Important information on protection of health and environment, and on safety. Product is not selfigniting. • Self-inflammability: Product is not selfigniting. • Explosive properties: Product is not explosive. However, formation explosive air/vapour mixtures is possible. • Solvent content: 504.9 g/l • Change in condition Not determined. • Information with regard to physical hazard classes Not determined. • Explosives Void • Flammable gases Void • Aerosols Void	· Vapour density	
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Form:FluidImportant information on protection of health and environment, and on safety.Product is not selfigniting.Self-inflammability:Product is not selfigniting.Explosive properties:Product is not explosive. However, formation explosive air/vapour mixtures is possible.Solvent content:504.9 g/lVOC EU504.9 g/lChange in condition Evaporation rateNot determined.Information with regard to physical hazard classesVoidExplosivesVoidFlammable gasesVoidVoidVoid		
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• Explosive properties: Product is not explosive. However, formation explosive air/vapour mixtures is possible. • Solvent content: 504.9 g/l • Change in condition 504.9 g/l • Evaporation rate Not determined. • Information with regard to physical hazard classes • Explosives • Explosives Void • Flammable gases Void • Aerosols Void	and environment, and on safety.	Desident in an traditional firm it is a
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Solvent content: 504.9 g/l VOC EU 504.9 g/l Change in condition Not determined. Evaporation rate Not determined. Information with regard to physical hazard classes Explosives Explosives Void Flammable gases Void Aerosols Void	Explosive properties:	Product is not explosive. However, formation (
· VOC EU 504.9 g/l · Change in condition Not determined. · Evaporation rate Not determined. · Information with regard to physical hazard classes Void · Explosives Void · Flammable gases Void · Aerosols Void	O - Locard and a structure	explosive air/vapour mixtures is possible.
• Change in condition Not determined. • Evaporation rate Not determined. • Information with regard to physical hazard classes • Explosives • Explosives Void • Flammable gases Void • Aerosols Void		504.0 "
· Evaporation rate Not determined. · Information with regard to physical hazard classes · Explosives · Explosives Void · Flammable gases Void · Aerosols Void		504.9 g/l
Information with regard to physical hazard classes Explosives Void Flammable gases Void Aerosols Void		
classes Void Explosives Void Flammable gases Void Aerosols Void	· Evaporation rate	Not determined.
• Explosives Void • Flammable gases Void • Aerosols Void		
• Flammable gases Void • Aerosols Void		
Flammable gases Void Aerosols Void	· Explosives	
· Aerosols Void	Flammable gases	
		Void
		(Contd. on page



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· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Highly flammable liquid and vapour.
· Flammable solids	Võid
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: 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.

11.1 Inform Acute to	nation on haz oxicity Based	ard classes as defined in Regulation (EC) No 1272/2008 on available data, the classification criteria are not met.
· LD/L	C50 values th	nat are relevant for classification:
80-62-6 me	thyl methacr	ylate
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	LD50	>2,000 mg/kg (rat) (OECD 423)
52408-84-1	glycerol, pro	poxylated, esters with acrylic acid
Oral	LD50	>2,000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2,000 mg/kg (rabbit) (OECD 402)



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55818-57-0 F	Risnhenol A I	Diglycidylether Diacrylate (BADGE-DA) (Contd. of page
Oral	LD0	>2,000 mg/kg (rat) (OECD 401)
Dermal	LDO	>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) (OECD 402)
Polysiloxan	e hexa-acryla	te
Oral	LD50	>2,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
		y Based on available data, the classification criteria are not met.
Reproduc Suspected STOT-sin May caus STOT-rep Aspiratio Additiona CMR e	ctive toxicity d of damaging ogle exposure e respiratory in peated exposion n hazard Bas al toxicologic effects (carcir	on available data, the classification criteria are not met. fertility.
Reproduc Suspected STOT-sin May caus STOT-rep Aspiratio Additiona CMR e Repr.	ctive toxicity d of damaging ogle exposure e respiratory in peated exposion n hazard Bas al toxicologic effects (carcir	on available data, the classification criteria are not met. fertility. ritation. ure Based on available data, the classification criteria are not met. ed on available data, the classification criteria are not met. al information: nogenity, mutagenicity and toxicity for reproduction)
Reproduc Suspected STOT-sin May caus STOT-rep Aspiratio Additiona CMR e Repr. 11.2 Informa Endocrin	ctive toxicity d of damaging ogle exposure e respiratory in peated exposion n hazard Bas al toxicologic effects (carcir 2	on available data, the classification criteria are not met. fertility. ritation. ure Based on available data, the classification criteria are not met. ed on available data, the classification criteria are not met. al information: nogenity, mutagenicity and toxicity for reproduction) hazards properties

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic t	· Aquatic toxicity:			
80-62-6 met	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)			
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	>110 mg/l (algae) (OECD 201)	
NOEC/ 35d	9.4 mg/L (fish) (OECD 210)	
LC50/ 35d	33.7 mg/L (fish) (OECD 210)	
	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)	
	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	isphenol 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	iphenyl(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 Persiste	ence and degradability	
80-62-6 metl	yl methacrylate	
Biodegradatio	n 94 % /14d (not defined) (OECD 301C)	
40220-08-4 (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)
52408-84-1 g	lycerol, propoxylated, esters with acrylic acid	
Biodegradatio	on 72-85 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V,	C.4-C)
75980-60-8 c	iphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	
Biodegradatio	n 0-10 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.	4-D)
· 12.3 Bioaccu	mulative potential	
75980-60-8 c	iphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	
	tion factor (BCF) 47-55 (not defined)	
12.5 Results PBT: Not vPvB: No 12.6 Endocr	applicable. ne disrupting properties	
The product (loes not contain substances with endocrine disrupting properties.	(Contd. on page 11



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· 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 considerat	ions	
 • 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 o Non contaminated packagings can be		
SECTION 14: Transport information	on	
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. (METHYL METHACRYLATE MONOMER, STABILIZED, (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl) triethylene triacrylate), MARINE POLLUTANT	
	FLAMMABLE LIQUID, N.O.S. (METHYL METHACRYLATE MONOMER, STABILIZED, (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)	

· 14.3 Transport hazard class(es)

· ADR

· Class

3 (F1) Flammable liquids.

triethylene triacrylate)

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ade name: Palaseal			
		(Contd. of page	
· Label	3		
·IMDG			
· Class · Label	3 Flammable liqu	3 Flammable liquids.	
	<u>ې</u>		
· Class · Label	3 Flammable liqu 3	3 Flammable liquids. 3	
14.4 Packing group ADR, IMDG, IATA	11		
 14.5 Environmental hazards: Marine pollutant: Special marking (ADR): 	Symbol (fish and tre Symbol (fish and tre	Symbol (fish and tree) Symbol (fish and tree)	
 14.6 Special precautions for use Kemler Number: EMS Number: Stowage Category 	r Warning: Flammable lid 33 F-E, <u>S-E</u> B	Warning: Flammable liquids. 33 F-E, <u>S-E</u>	
• 14.7 Maritime transport in bulk a instruments	ccording to IMO Not applicable.		
· Transport/Additional informa			
• ADR • Limited quantities (LQ) • Excepted quantities (EC	Q) 1L Code: E2 Maximum packaging: 30	net quantity per oute	
 Transport category Tunnel restriction code 	2		
· IMDG · Limited quantities (LQ)	1L		
		(Contd. on page	



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• Excepted quantities (EQ)	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.

- H315 Causes skin irritation. H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.
- H361f Suspected of damaging fertility.
- 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 (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 Skin Irrit. 2: Skin corrosion/irritation Category 2

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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. 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 * * Data compared to the previous version altered.