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

Printing date 02.10.2017

Version number 1

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1.1 Product identifier • Trade name: Pala	,	
	aXtreme Liquid	
	ed uses of the substance or mixture	a and uses advised against
No further relevant info		e and uses advised against
<ul> <li>Application of the</li> </ul>	substance / the mixture Manufactu	ire of dental prothesis
1.3 Details of the sup • Manufacturer/Supp Kulzer GmbH	plier of the safety data sheet plier:	
Leipziger Straße 2,	63450 Hanau (Germany)	Tel.: +49 (0)800 43725
• Informing departm 1.4 Emergency teleph	nent: E-Mail: msds@kulzer-dental.co hone number: Emergency CONTAC	om CT (24-Hour-Number): +49 (0)6132-8440
SECTION 2: Hazar		
	the substance or mixture ording to Regulation (EC) No 1272	/2008
	i Highly flammable liquid and vapour	
	6 Causes skin irritation.	
	Causes skin initiation.	
-	May cause an allergic skin reaction	
	, ,	
SIUI SE 3 H335	May cause respiratory irritation.	
<u>()</u>	>	
GHS02 GHS0	17	
<ul> <li>Signal word Date</li> </ul>	inger	
· Hazard-determi	ining components of labelling:	
methyl methacry		
<ul> <li>Hazard stateme</li> </ul>		
HODE Ulably flag		
H225 Highly flan H315 Causes sk		
H315 Causes sk	erious eve irritation.	
H315 Causes sk H319 Causes se H317 May cause	e an allergic skin reaction.	
H315 Causes sk H319 Causes se H317 May cause H335 May cause	e an allergic skin reaction. e respiratory irritation.	
H315 Causes sk H319 Causes se H317 May cause H335 May cause <b>Precautionary s</b>	e an allergic skin reaction. e respiratory irritation. <b>statements</b>	
H315 Causes sk H319 Causes se H317 May cause H335 May cause <b>Precautionary s</b> P210	e an allergic skin reaction. e respiratory irritation. <b>statements</b> Keep away from heat/sparks/opei	n flames/hot surfaces No smoking. tilating/lighting/equinment
H315 Causes sk H319 Causes se H317 May cause H335 May cause <b>Precautionary s</b> P210 P241	e an allergic skin reaction. e respiratory irritation. <b>statements</b> Keep away from heat/sparks/oper Use explosion-proof electrical/ver 53 IF ON SKIN (or hair): Remove/	ntilating/lighting/equipment. /Take off immediately all contaminat
H315 Causes sk H319 Causes se H317 May cause H335 May cause <b>Precautionary s</b> P210 P241 P303+P361+P35	e an allergic skin reaction. e respiratory irritation. statements Keep away from heat/sparks/oper Use explosion-proof electrical/ver 53 IF ON SKIN (or hair): Remover clothing. Rinse skin with water/sho 38 IF IN EYES: Rinse cautiously w	ntilating/lighting/equipment. /Take off immediately all contaminat ower. vith water for several minutes. Remo
H315 Causes sk H319 Causes se H317 May cause H335 May cause <b>Precautionary s</b> P210 P241 P303+P361+P35	e an allergic skin reaction. e respiratory irritation. <b>statements</b> Keep away from heat/sparks/oper Use explosion-proof electrical/ver 53 IF ON SKIN (or hair): Remove/ clothing. Rinse skin with water/shi	ntilating/lighting/equipment. /Take off immediately all contaminat ower. vith water for several minutes. Remo sy to do. Continue rinsing.



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### Trade name: PalaXtreme Liquid

#### · Results of PBT and vPvB assessment

· PBT: Not applicable.

• vPvB: Not applicable.

#### SECTION 3: Composition/information on ingredients

#### • 3.2 Chemical characterisation: Mixtures • Description: -

Description.		
<ul> <li>Dangerous components:</li> </ul>		
CAS: 80-62-6	methyl methacrylate	75-90%
EINECS: 201-297-1 Reg.nr.: 01-2119452498-28-0000	Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 63225-53-6 EINECS: 264-036-0	2-[[(butylamino)carbonyl]oxy]ethyl acrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	5-10%
CAS: 40220-08-4 EINECS: 254-843-6	(2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate	< 1%
	Eye Dam. 1, H318	
CAS: 5137-55-3	methyltrioctylammonium chloride	< 1%
EINECS: 225-896-2	Acute Tox. 3, H301; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
. Additional information For th	a wording of the listed hazard phrases refer to section 16	

· Additional information For the wording of the listed hazard phrases refer to section 16.

#### **SECTION 4: First aid measures**

· 4.1 Description of first aid measures

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

Instantly wash with water and soap and rinse thoroughly.

- If skin irritation continues, consult a doctor.
- · After eye contact
- Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor. After swallowing

Rinse out mouth and then drink plenty of water.

- In case of persistent symptoms consult doctor.
- 4.2 Most important symptoms and effects, both acute and delayed
- 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 void
- For safety reasons unsuitable extinguishing agents Water with a full water jet.
- 5.2 Special hazards arising from the substance or mixture

Can form explosive gas-air mixtures.

Formation of toxic gases is possible during heating or in case of fire.

- 5.3 Advice for firefighters
  - Protective equipment: Wear self-contained breathing apparatus. Wear full protective suit.

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#### · Additional information -

SECTION 6: Accidental release measures · 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away. 6.2 Environmental precautions: Do not allow product to reach sewage system or water bodies. Do not allow to enter the ground/soil. 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). Send for recovery or disposal in suitable containers. 6.4 Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for information on disposal. SECTION 7: Handling and storage · 7.1 Precautions for safe handling Keep containers tightly sealed. Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air). 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 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 · Additional information about design of technical systems: No further data; see item 7. · 8.1 Control parameters · Components with critical values that require monitoring at the workplace: 80-62-6 methyl methacrylate WEL Short-term value: 416 mg/m<sup>3</sup>, 100 ppm Long-term value: 208 mg/m<sup>3</sup>, 50 ppm · DNELs 80-62-6 methyl methacrylate worker industr., l.te., syst. 74.3 mg/Kg/d (human) Dermal Inhalative worker industr., I.te., syst. 210 mg/m3 (human) (Contd. on page 4) GE



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80-62-6 methyl methacrylate

· PNECs

freshwater 0.94 mg/l (aqua)

· Additional information: The lists that were valid during the compilation were used as basis.

#### · 8.2 Exposure controls

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). Protection of hands: 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. 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 protection: Safety glasses · Body protection: Protective work clothing.

9.1 Information on basic physical and chemical properties · General Information		
· Appearance: · Form:	Fluid	
· Colour:	Colourless	
· Smell:	Ester-like	
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
· Change in condition		
<ul> <li>Melting point/Melting range:</li> </ul>	Not determined	
<ul> <li>Boiling point/Boiling range:</li> </ul>	100 °C	
		(Contd. on page



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· Flash point:	10 °C
<ul> <li>Inflammability (solid, gaseous)</li> </ul>	Not applicable.
· Ignition temperature:	430 °C
· Decomposition temperature:	Not determined.
· Self-inflammability:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapour mixtures is possible.
Critical values for explosion:     Lower:     Upper:	2.1 Vol % 12.5 Vol %
<ul> <li>Steam pressure at 20 °C:</li> </ul>	47 hPa
Density     Relative density     Vapour density     Evaporation rate	Not determined Not determined. Not determined. Not determined.
• Solubility in / Miscibility with • Water:	Not miscible or difficult to mix
· Partition coefficient (n-octanol/wat	er): Not determined.
<ul> <li>Viscosity:</li> <li>dynamic:</li> <li>kinematic:</li> </ul>	Not determined. Not determined.
Solvent content:     Water:	0.1 %
Solids content: 9.2 Other information	0.1 % No further relevant information available.

#### 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: -

#### **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
  - · Acute toxicity Based on available data, the classification criteria are not met.

#### · LD/LC50 values that are relevant for classification:

#### 80-62-6 methyl methacrylate

LD50 >5000 mg/kg (rat) Oral

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Dermal		$ \mathbf{D} \mathbf{D} \mathbf{D} \mathbf{D} \mathbf{D} \mathbf{D} \mathbf{D} \mathbf{D}$
		>5000 mg/kg (rab)
		29.8 mg/l (rat)
		lamino)carbonyl]oxy]ethyl acrylate
		2000 mg/l (nd)
		octylammonium chloride
Oral		223 mg/kg (rat)
· Pri	mary irritar	nt effect:
	<b>Skin corro</b> s Causes skir	sion/irritation
		e damage/irritation
		ion possible
	Causes seri	ious eye irritation.
·Re	spiratory o	r skin sensitisation
		allergic skin reaction.
		carcinogenity, mutagenicity and toxicity for reproduction) mutagenicity Based on available data, the classification criteria are not me
		<b>nicity</b> Based on available data, the classification criteria are not met.
		ive toxicity Based on available data, the classification criteria are not met.
•		
·ST	OT-single e	exposure
· ST Ma	<b>OT-single e</b> y cause res <sub>l</sub>	piratory irritation.
· ST Ma · ST	OT-single e y cause res <sub>i</sub> OT-repeate	exposure <sup>*</sup> piratory irritation. d exposure Based on available data, the classification criteria are not met.
· ST Ma · ST · Asj	OT-single e y cause res OT-repeate piration ha	piratory irritation.
SECTIC Acquat 12.1 Toxi Acquat 12.2 Pers 12.3 Bioa 12.4 Mob Additi Ge Ave Do Dai 12.5 Rest PBT: 1 vPvB:	OT-single e y cause res OT-repeate biration haz OT-repeate biration haz OT-repeate DT-repeate (DT-single e (DT-single e	exposure piratory irritation. d exposure Based on available data, the classification criteria are not met. zard Based on available data, the classification criteria are not met. ological information No further relevant information available. d degradability No further relevant information available. ve potential No further relevant information available. No further relevant information available. gical information: into the environment. roduct to reach ground water, water bodies or sewage system. king water if even small quantities leak into soil. and vPvB assessment ole.

• **Recommendation:** Disposal must be made according to official regulations.

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· 14.1 UN-Number · ADR, IMDG, IATA	UN1993
• 14.2 UN proper shipping name • ADR	1993 FLAMMABLE LIQUID, N.O.S., spec provision 640D (METHYL METHACRYLA MONOMER, STABILIZED)
· IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (METH METHACRYLATE MONOMER, STABILIZED)
14.3 Transport hazard class(es)	
· ADR	
· Class · Label	3 (F1) Flammable liquids. 3
· IMDG, IATA	
· Class · Label	3 Flammable liquids. 3
· 14.4 Packing group · ADR, IMDG, IATA	11
• 14.5 Environmental hazards: • Marine pollutant:	No
14.6 Special precautions for user Kemler Number:	Warning: Flammable liquids. 33
· EMS Number:	F-E, <u>S-E</u>
· Stowage Category	B
14.7 Transport in bulk according to Ann of Marpol and the IBC Code	Not applicable.
Transport/Additional information:	-
<ul> <li>ADR</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1L Code: E2 Maximum not quantity por ini
	Maximum net quantity per ini packaging:30 ml Maximum net quantity per ou packaging:500 ml
Transport category     Tunnel restriction code	2 D/E



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(Contd. of page 7) · IMDG Limited quantities (LQ) 1L Code: E2 Excepted quantities (ÉQ) Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml UN 1993 FLAMMABLE LIQUID, N.O.S., SPECIAL PROVISION 640D (METHYL UN "Model Regulation": METHACRYLATE MONOMER, STABILIZED), 3, 11

#### SECTION 15: Regulatory information

 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

- Named dangerous substances ANNEX I None of the ingredients is listed.
- · Seveso category P5c FLAMMABLE LIQUIDS
- · Qualifying quantity (tonnes) for the application of lower-tier requirements 5,000 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 50,000 t REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· 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.

H301 Toxic 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.
- H335 May cause respiratory irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods INDES: International Nantime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (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 (Contd. on page 9)



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Acute Tox. 3: Acute toxicity – Category 3 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 Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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