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

Printing date 03.06.2017

Version number 3

Revision: 03.06.2017

SECTION 1: Identification of the substance/mixture and of the company undertaking 1.1 Product Identifier Trade name: Palapress liquid 1.2 Relevant Identified uses of the substance or mixture and uses advised against No lurther relevant information available. . Application of the substance / the mixture Manufacture of dental prothesis 1.3 Details of the supplier of the safety data sheet . Manufacture/Supplier: Kuizer Gmb/ Leipziger Straße 2, 63450 Hanau (Germany) . Informing department: E-Mail: msds @kuizer-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 . Lassification according to Regulation (EC) No 1272/2008 Flam. Liq. 2 H225 Highly flammable liquid and vapour. . Skin Irmt. 2 H315 Causes skin irritation. . Skin Sens. 1 H317 May cause an allergic skin reaction. . STOT SE 3 H335 May cause respiratory irritation. . Haard pictograms . Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelied according to the CLP regulation. . Haard pictograms . Labelling according to mean second the support. . Haard pictograms . Haard pictograms . Haard pictograms . Haard second the substance . Haard second the support irritation. . Haard second the support irritation. . Haard second the support irritation. . H317 May cause an allergic skin reaction. . H337 May cause an ellergic skin reaction. . H337 May cause an ellergic skin reaction. . H337 May cause an ellergic skin reaction. . H337 May cause an energicative viritation. . H337 May cause an ellergic skin reaction.	· ·····g acto ee			
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Trade name: Palapress 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: Product based on methacrylates

 Dangerous components: 		
CAS: 80-62-6 EINECS: 201-297-1 Reg.nr.: 01-2119452498-28-0000	methyl methacrylate Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	> 90%
CAS: 2082-81-7 EINECS: 218-218-1 Reg.nr.: 02-2119849716-25	tetramethylene dimethacrylate Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	0-5%
CAS: 5137-55-3 EINECS: 225-896-2	methyltrioctylammonium chloride Acute Tox. 3, H301; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	< 1%

· 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.
- · After eye contact Rinse opened eye for several minutes under running water.
- · 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 CO2, sand, extinguishing powder. Do not use water.
 For safety reasons unsuitable extinguishing agents
 - Water.
 - Water with a full water jet.

 \cdot 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.

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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: 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).
- · 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.
 - 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

• 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/m³, 100 ppm

Long-term value: 208 mg/m³, 50 ppm

· DNELs

80-62-6 methyl methacrylate

Dermal worker industr., I.te., syst. 74.3 mg/Kg/d (human)

Inhalative worker industr., I.te., syst. 210 mg/m3 (human)

· PNECs

80-62-6 methyl methacrylate

freshwater 0.94 mg/l (aqua)

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(Contd. of page 3) • 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. 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 protection: Safety glasses · Body protection: Light weight protective clothing SECTION 9: Physical and chemical properties 9.1 Information on basic physical and chemical properties **General Information** Appearance: Form: Fluid · Colour: Colourless · Smell: Ester-like · Odour threshold: Not determined. Not determined. · pH-value:

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 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	-48 °C 100 °C
· Flash point:	15 ℃
 Inflammability (solid, gaseous) 	Not applicable.
 Ignition temperature: 	430.0 °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 %
 Steam pressure at 20 °C: 	47 hPa
 Density at 20 °C Relative density Vapour density Evaporation rate 	0.950 g/cm ³ Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water at 20 °C:	1.6 g/l
 Partition coefficient (n-octanol/wat 	ter): Not determined.
 Viscosity: dynamic at 20 °C: kinematic: 	1 mPas Not determined.
Solvent content: Water: 9.2 Other information	0.2 % 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

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· Additional information:

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

		es that are relevant for classification:
80-62-6 m Oral	etnyi met LD50	>5000 mg/kg (rat)
Dermal	LD50 LD50	>5000 mg/kg (rak)
		29.8 mg/l (rat)
		ylene dimethacrylate
Oral	LD50	10120 mg/kg (rat)
5137-55-3	methyltri	octylammonium chloride
Oral	LD50	223 mg/kg (rat)
· Res May · CM	Serious ey piratory o cause an R effects (n irritation. Te damage/irritation Based on available data, the classification criteria are not me r skin sensitisation allergic skin reaction. carcinogenity, mutagenicity and toxicity for reproduction) mutagenicity Based on available data, the classification criteria are not met
· Res May · CM · C · C · C · C · C · C · C · C · C · C	Serious ey piratory o cause an R effects (Germ cell Carcinoge Reproduct OT-single (cause res OT-repeate	e damage/irritation Based on available data, the classification criteria are not me r skin sensitisation allergic skin reaction. carcinogenity, mutagenicity and toxicity for reproduction) mutagenicity Based on available data, the classification criteria are not met. nicity Based on available data, the classification criteria are not met. ive toxicity Based on available data, the classification criteria are not met.

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or

- sewage system.
 12.5 Results of PBT and vPvB assessment

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

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· 12.6 Other adverse effects No further relevant information available.

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.

Small quantities can be polymerized with the matching system component(s) and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities.

· European waste catalogue

18 01 06* chemicals consisting of or containing dangerous substances

· Uncleaned packagings:

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

SECTION 14: Transport information	n
· 14.1 UN-Number · ADR, IMDG, IATA	1247
 14.2 UN proper shipping name ADR 	1247 METHYL METHACRYLATE MONOMEF STABILIZED, solution
· IMDG, IATA	METHYL METHACRYLATE MONOMER STABILIZED, solution
· 14.3 Transport hazard class(es)	
ADR	
· Class · Label	3 (F1) Flammable liquids. 3
· IMDG, IATA	
· Class · Label	3 Flammable liquids. 3
	(Contd. on page



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 14.4 Packing group ADR, IMDG, IATA 	11	
14.5 Environmental hazards: Marine pollutant:	No	
 • 14.6 Special precautions for user • Kemler Number: • EMS Number: 	Warning: Flammable liquids. 339 F-E,S-D	
• 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable.		
 Transport/Additional information: 	-	
· UN "Model Regulation":	UN 1247, METHYL METHACRYLA MONOMER, STABILIZED, solution, 3, II	ΤE

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 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.

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 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)

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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 Acute Tox. 3: Acute toxicity – Category 3 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Irrit. 2: Skin corrosion/irritation – Category 2 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 * **Data compared to the previous version altered.**