

Page 1/9

Safety Data Sheet acc. to OSHA HCS

Reviewed on 06/03/2017 Printing date 06/03/2017 1 Identification · Product identifier · Trade name: Palapress liquid · Application of the substance / the mixture Manufacture of dental prothesis · Details of the supplier of the safety data sheet Manufacturer/Supplier: Kulzer GmbH Leipziger Straße 2, 63450 Hanau (Germany) Tel.: +49 (0)800 4372522 Information department: Tel. +1 (800) 431-1785 Fax: +1 (800) 522-1545 e-mail: customer.servicehkna@kulzer-dental.com • Emergency telephone number: Emergency CONTACT (24-Hour-Number) GBK/Infotrac ID 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500 2 Hazard(s) identification · Classification of the substance or mixture Flam. Liq. 2 H225 Highly flammable liquid and vapor. Skin Irrit. 2 H315 Causes skin irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. STOT SE 3 H335 May cause respiratory irritation. · Label elements GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS02 GHS07 · Signal word Danger · Hazard-determining components of labeling: methyl methacrylate tetramethylene dimethacrylate · Hazard statements Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. May cause respiratory irritation. Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. No smoking. Avoid breathing dust/fume/gas/mist/vapors/spray IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor if you feel unwell. (Contd. on page 2)

USA -



Page 2/9

Safety Data Sheet acc. to OSHA HCS

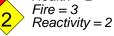
Printing date 06/03/2017

Reviewed on 06/03/2017

Trade name: Palapress liquid

(Contd. of page 1)





· HMIS-Ratings (Scale 0-4)



Health = 1 Fire = 3 Reactivity = 2

Results of PBT and vPvB assessment

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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
 - · Description: Composition based on methacrylates

Dangerous components:80-62-6methyl methacrylate> 90%Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335> 00%2082-81-7tetramethylene dimethacrylate0-5%Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H3350-5%

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

4 First-aid measures

· Description of first aid measures

- · After inhalation Supply fresh air; consult doctor in case of complaints.
- After skin contact Immediately 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.
- If symptoms persist consult doctor.
- Information for doctor
 - Most important symptoms and effects, both acute and delayed No further relevant information available.
 - · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
 - Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water.

(Contd. on page 3)



Page 3/9

Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017

Reviewed on 06/03/2017

(Contd. of page 2)

Trade name: Palapress liquid

• For safety reasons unsuitable extinguishing agents Water.

Water with full jet.

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

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

- Environmental precautions: Prevent seepage into sewage system, workpits and cellars.
- Methods and material for containment and cleaning up:

Absorb with liquid binding material (diatomite, universal binders, for small amounts tissues).

Reference to other sections No dangerous substances are released. See Section 8 for information on personal protection equipment.

7 Handling and storage

· Handling

- · Precautions for safe handling Keep receptacles tightly sealed.
- Information about protection against explosions and fires:
 - Keep ignition sources away Do not smoke.

Protect against electrostatic charges.

Conditions for safe storage, including any incompatibilities

- · Storage
 - Requirements to be met by storerooms and receptacles: Store in a cool location.
 - · Information about storage in one common storage facility: Not required.
 - Further information about storage conditions: Keep cool, if possible (not above 25 °C).

Store in cool, dry conditions in well sealed receptacles.

• Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

· Control parameters

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

80-62-6 methyl methacrylate

PEL Long-term value: 410 mg/m³, 100 ppm

(Contd. on page 4)



Page 4/9

Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017

Reviewed on 06/03/2017

ade name: Palapress liquid	
	(Contd. of page
REL Long-term value: 410 mg/m ³ , 1	'00 ppm
TLV Short-term value: 410 mg/m ³ , 1	100 ppm
Long-term value: 205 mg/m³, 5	50 ppm
DSEN	
 Additional information: The 	lists that were valid during the creation were used as basis.
· Exposure controls	
Personal protective equipment	
General protective and hygi	enic measures
Keep away from foodstuffs, be	everages and feed.
Immediately remove all soiled	
Wash hands before breaks an	
Avoid contact with the eyes ar	iu skiri.
• Breathing equipment: Not pecessary with efficient	local exhaust. If exposition to vapours is possible, use breathing
protective mask (filter A).	iour chiausi. Il chosilion lo vapours is possible, use breatin
· Protection of hands:	
The glove material has to b	e impermeable and resistant to the product/ the substance/ t
preparation.	
	I on consideration of the penetration times, rates of diffusion and t
degradation	
If skin contact cannot be avoid	ded, protective gloves are recommended to
avoid possible sensitization.	
Solvent resistant gloves	
	to each use for their proper condition.
recommended	
Material of gloves The collection of the cuitch	le aloues does not only depend on the meterial but also on furth
marks of quality and varias	ble gloves does not only depend on the material, but also on furth s from manufacturer to manufacturer. As the product is a preparati
of several substances the	e resistance of the glove material can not be calculated in advan
	ecked prior to the application.
· Penetration time of glove	
The exact break through the	me has to be found out by the manufacturer of the protective glov
and has to be observed.	
	act of a maximum of 15 minutes gloves made of the following
materials are suitable:	v
Butyl rubber, BR	
Nitrile rubber, NBR	
Eye protection: Safety glasse	es
 Body protection: Light weight 	t protective clothing
9 Physical and chemical prope	erties
· · · · ·	
 Information on basic physical and 	I chemical properties
· General Information	
· Appearance:	Fluid
Form: · Color:	Fluid Colorless
• (.())()) -	COIOTIESS

(Contd. on page 5)



Page 5/9

Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017

Reviewed on 06/03/2017

Trade name: Palapress liquid

	(Contd. of page 4
· Odor:	Ester-like
· Odor threshold:	Not determined.
· pH-value:	Not determined.
· Change in condition	
 Melting point/Melting range: Boiling point/Boiling range: 	-48 °C (-54 °F) 100 °C (212 °F)
· Flash point:	15 °C (59 °F)
· Flammability (solid, gaseous)	Not applicable.
· Ignition temperature:	430.0 °C (806 °F)
 Decomposition temperature: 	Not determined.
· Auto igniting:	Product is not selfigniting.
• Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
 Explosion limits: Lower: Upper: 	2.1 Vol % 12.5 Vol %
Vapor pressure at 20 °C (68 °F):	47 hPa (35 mm Hg)
 Density at 20 °C (68 °F): Relative density Vapor density Evaporation rate 	0.950 g/cm³ (7.928 lbs/gal) Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water at 20 °C (68 °F):	1.6 g/l
· Partition coefficient (n-octanol/wa	ter): Not determined.
 Viscosity: dynamic at 20 °C (68 °F): kinematic: 	1 mPas Not determined.
Solvent content: Water: Other information	0.2 % No further relevant information available.

10 Stability and reactivity

Reactivity No further relevant information available.
 Possibility of hazardous reactions No dangerous reactions known
 Conditions to avoid No further relevant information available.

· Incompatible materials: No further relevant information available.

· Hazardous decomposition products: none

(Contd. on page 6)

USA



Page 6/9

(Contd. of page 5)

Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017

Reviewed on 06/03/2017

Trade name: Palapress liquid

· Additional information:

Product might polymerize after considerable exceeding of recommended storage time or temperature.

	 Information on toxicological effects Acute toxicity: LD/LC50 values that are relevant for classification: 				
· LD/					
80-62-6 n	80-62-6 methyl methacrylate				
Oral	LD50	>5000 mg/kg (rat)			
Dermal		>5000 mg/kg (rab)			
Inhalative	LC50/4 h	29.8 mg/l (rat)			
2082-81-7	2082-81-7 tetramethylene dimethacrylate				
Oral		10120 mg/kg (rat)			
5137-55-3	5137-55-3 methyltrioctylammonium chloride				
Oral	LD50	223 mg/kg (rat)			
• Sei • Additi The pi	nsitization onal toxic roduct sho fication Gui	: No irritating effect. : Sensitization possible through skin contact. ological information: ws the following dangers according to the calculation method of the General El idelines for Preparations as issued in the latest version:			
	· Carcinogenic categories				
	 IARC (International Agency for Research on Cancer) 				
80-62-6 r	80-62-6 methyl methacrylate 3				
•	NTP (Natio	onal Toxicology Program)			
None of th	None of the ingredients is listed.				
	OSHA-Ca	(Occupational Safety & Health Administration)			

12 Ecological information		
· Toxicity		
Aquatic toxicity: No further relevant information available.		
• Persistence and degradability No further relevant information available.		
· Behavior in environmental systems:		
· Bioaccumulative potential No further relevant information available.		
• Mobility in soil No further relevant information available.		
· Additional ecological information:		

· General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

(Contd. on page 7)



Page 7/9

Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017

Reviewed on 06/03/2017

(Contd. of page 6)

Trade name: Palapress liquid

• Results of PBT and vPvB assessment • PBT: Not applicable.

• **vPvB:** Not applicable.

· Other adverse effects No further relevant information available.

13 Disposal considerations

· Waste treatment methods

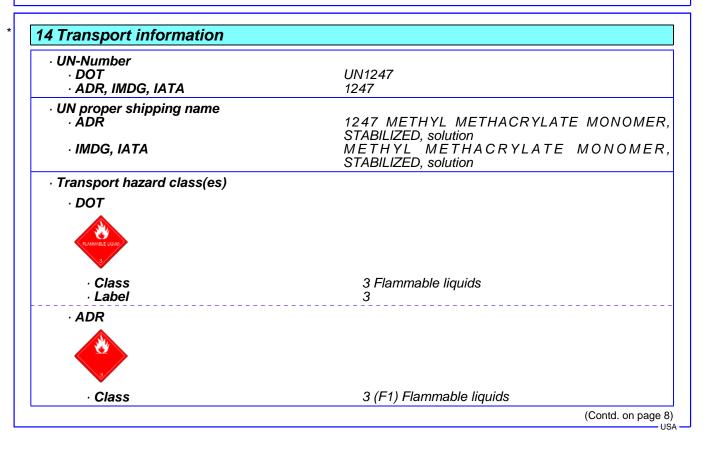
Recommendation

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

Śmall 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.

· Uncleaned packagings:

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





Page 8/9

Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017	Reviewed on 06/03/2017	
Trade name: Palapress liquid		
	(Contd. of page 7)	
· Label	3	
· IMDG, IATA		
*		
· Class · Label	3 Flammable liquids 3	
Packing group DOT, ADR, IMDG, IATA	11	
 Environmental hazards: Marine pollutant: 	No	
 Special precautions for user Danger code (Kemler): EMS Number: 	Warning: Flammable liquids 339 F-E,S-D	
 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code 	of Not applicable.	
· Transport/Additional information:	-	
· UN "Model Regulation":	UN1247, Methyl methacrylate monomer, stabilized, solution, 3, II	

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
 SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

· Cancerogenity categories

· TLV (Threshold Limit Value established by ACGIH)

80-62-6 methyl methacrylate

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). • Hazard pictograms



· Signal word Danger

 Hazard-determining components of labeling: methyl methacrylate

(Contd. on page 9)

A4

UŚA



Page 9/9

Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2017

Reviewed on 06/03/2017

Trade name: Palapress liquid

· Hazard statements

(Contd. of page 8)

LISA

Highly flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction

May cause an allergic skin reaction. May cause respiratory irritation.

· Precautionary statements

tetramethylene dimethacrylate

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Avoid breathing dust/fume/gas/mist/vapors/spray

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Call a doctor if you feel unwell.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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 vapor.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

· Date of preparation / last revision 06/03/2017 / 2

· 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 DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Substances ELINCS: European Inventory of Existing Commercial Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA) LC50: Lethal concentration, 50 percent DD50: Lethal dose, 50 percent DD50: Lethal dose, 50 percent DD50: Lethal dose, 50 percent DB7: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit REL: Recommended Exposure Limit Flam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: A: Serious eye damage/eye irritation – Category 2A Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 • * **Data compared to the previous version altered**.