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Safety Data Sheet according to WHS Regulations

Printing date 31.07.2023 Version number 4 Revision: 31.07.2023

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

- · Product identifier
 - Trade name: Palapress vario liquid
 - · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 - · Application of the substance / the mixture Manufacture of dental prothesis
- · Details of the supplier of the safety data sheet
 - Manufacturer/Supplier: Kulzer Australia Pty Ltd

Unit 20, 53 Lorraine St PEAKHURST NSW 2210

Australia Tel: +61 (02) 9153 0311

- Informing department: see above
- · Emergency telephone number:

Poison Information Number: Australia 13 11 26 & New Zealand 0800 764 766

2 Hazard(s) Identification

· Classification of the substance or mixture

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

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 labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms





GHS02 GHS07

- · Signal word Danger
- · Hazard-determining components of labelling:

methyl methacrylate

1,4-butandioldimethacrylate

· Hazard statements

Highly flammable liquid and vapour.

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/vapours/spray.

Wear protective gloves / eye protection.

Wear protective clothing.

If skin irritation or rash occurs: Get medical advice/attention.

· Other hazards -

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

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· vPvB: Not applicable.

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3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
 - · Description: Product based on methacrylates

· Dangerous components:		
80-62-6	methyl methacrylate	>90%
	Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	
2082-81-7	1,4-butandioldimethacrylate	<i>≥1-≤</i> 5%
	Skin Sens. 1B, H317	
99-85-4	p-Mentha-1,4-diene	<1%
	Flam. Liq. 3, H226 Repr. 2, H361	
63393-96-4	Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides	<1%
	Acute Tox. 3, H301 Repr. 2, H361	
	Skin Corr. 1C, H314; Eye Dam. 1, H318	
	Flam. Liq. 4, H227	

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

4 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. If symptoms persist, consult doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms 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

- Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water. For safety reasons unsuitable extinguishing agents Water.
- 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.

- · 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.

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- Environmental precautions: Prevent material from reaching sewage system, holes 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 materials are released.

See Section 8 for information on personal protection equipment.

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7 Handling and Storage

- · Handling
 - · 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.

- · 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.

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

8 Exposure controls and personal protection

- Additional information about design of technical systems: No further data; see section 7.
- · Components with critical values that require monitoring at the workplace:

80-62-6 methyl methacrylate

WES Short-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm Sen

· DNELs

80-62-6 methyl methacrylate

Oral	general population, long term, systemic	8.2 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	13.67 mg/Kg/d (not defined)
	general population, long term, systemic	8.2 mg/Kg/d (not defined)
Inhalative	worker industrial, acute, local	416 mg/m3 (not defined)
	worker industrial, long term, systemic	348.4 mg/m3 (not defined)
	worker industrial, long term, local	208 mg/m3 (not defined)
	general population, acute, local	208 mg/m3 (not defined)
	general population, long term, systemic	74.3 mg/m3 (not defined)

2082-81-7 1,4-butandioldimethacrylate

Oral	general population, long term, systemic	2.5 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	4.2 mg/Kg/d (not defined)
	general population, long term, systemic	2.5 mg/Kg/d (not defined)
Inhalative	worker professional, long term, systemic	14.5 mg/m3 (not defined)
	general population, long term, systemic	4.3 mg/m3 (not defined)

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	m compounds, tri-C8-10-alkylmethyl, chlorides
Inhalative worker professional, long	g term, systemic 0.42 mg/m3 (not defined)
· PNECs	
80-62-6 methyl methacrylate	
freshwater	0.94 mg/l (not defined)
marine water	0.094 mg/l (not defined)
sewage treatment plant	10 mg/l (not defined)
sediment, dry weight, freshwater	10.2 mg/Kg (not defined)
sediment, dry weight, marine water	0.102 mg/Kg (not defined)
soil, dry weight	1.48 mg/Kg (not defined)
2082-81-7 1,4-butandioldimethac	rylate
freshwater	0.043 mg/l (not defined)
marine water	0.004 mg/l (not defined)
sewage treatment plant	2 mg/l (not defined)
sediment, dry weight, freshwater	3.12 mg/Kg (not defined)
sediment, dry weight, marine water	0.312 mg/Kg (not defined)
soil, dry weight	0.573 mg/Kg (not defined)
63393-96-4 Quaternary ammonium	m compounds, tri-C8-10-alkylmethyl, chlorides
freshwater	0.00015 mg/l (not defined)
marine water	0.00000002 mg/l (not defined)
sewage treatment plant	0.44 mg/l (not defined)
sediment, dry weight, freshwater	0.00063 mg/Kg (not defined)
sediment, dry weight, marine water	0.00000006 mg/Kg (not defined)
soil, dry weight	0.00000004 mg/Kg (not defined)

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

· 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

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.

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· 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

9 Physical and Chemical Properties

· General Information

· Appearance:

Form: Fluid
Colour: Colourless
Smell: Characteristic
Odour threshold: Not determined.

• **pH-value:** Mixture is non-soluble (in water).

Change in condition

· Melting point/freezing point: Not determined

Initial boiling point and boiling range: 100 °C Flash point:

• Inflammability (solid, gaseous) Not applicable. • Auto-ignition temperature: 430.0 °C

Decomposition temperature: Not determined.

·SAPT

Palapress vario liquid > 60 °C

· Self-inflammability: Product is not selfigniting.

• Explosive properties: Product is not explosive. However, formation of explosive

air/vapour mixtures is possible.

· Critical values for explosion:

Lower: 2.1 Vol %
Upper: 12.5 Vol %
Steam pressure at 20 °C: 47 hPa
Density at 20 °C 0.950 g/cm³
Relative density Not determine

Relative density
 Vapour density
 Evaporation rate
 Not determined.
 Not determined.

· Solubility in / Miscibility with

• Water: Not miscible or difficult to mix

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

dynamic at 20 °C: 1 mPas

kinematic: Not determined.

· Solvent content: · Water: 0.1 %

· Solids content: 0.3 %

· Other information No further relevant information available.

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10 Stability and Reactivity

- · Reactivity No further relevant information available.
- · Conditions to be avoided: No decomposition if used and stored according to specifications.
- · 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
- Additional information:

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

11 Toxicological Information

· 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 m	80-62-6 methyl methacrylate		
Oral	LD50	~7,900 mg/kg (rat)	
Dermal	LD50	>5,000 mg/kg (guinea pig) (OECD 402)	
Inhalative	LC50/4 h	29.8 mg/l (rat)	
2082-81-7	2082-81-7 1,4-butandioldimethacrylate		
Oral	LD50	10,066 mg/kg (rat) (OECD 401)	
99-85-4 p-	99-85-4 p-Mentha-1,4-diene		
Oral	LD50	>2,000 mg/kg (rat) (OECD 423)	
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)	
63393-96-4 Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides			
Oral	LD50	200 mg/kg (ATE)	
		>200-<2,000 mg/kg (rat) (OECD 401)	

· Skin corrosion/irritation

Causes skin irritation.

- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation

May cause an allergic skin reaction.

- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure

May cause respiratory irritation.

- STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

12 Ecological Information

· Toxicity

· Aquatic toxicity:

80-62-6 methyl methacrylate

EC50/21d 49 mg/L (daphnia) (OECD 211)

EC50/48h 69 mg/l (daphnia) (EPA OTS 797.1300)

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11050 (6)	(Contd.
	37 mg/l (daphnia) (OECD 211)
	>110 mg/l (algae) (OECD 201)
	110 mg/l (algae) (OECD 201)
	48 mg/l (daphnia) (EPA OTS 797.1300)
	>110 mg/l (algae) (OECD 201)
	9.4 mg/L (fish) (OECD 210)
LC50/ 35d	33.7 mg/L (fish) (OECD 210)
	4-butandioldimethacrylate
EC50/21d	14.1 mg/L (daphnia) (OECD 211)
EC50/48h	32.5 mg/l (fish)
	5.09 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	9.79 mg/l (algae) (OECD 201)
	2.11 mg/l (algae) (OECD 201)
NOEC / 48h	25 mg/l (fish)
ErC10/72h	4.35 mg/L (algae) (OECD 201)
99-85-4 p-Me	entha-1,4-diene
EC50/72h	>10.82 mg/l (algae) (OECD 201)
EC50/48h	10.189 mg/l (daphnia) (OECD 202)
LC50/96h	2.792 mg/l (fish) (OECD 203)
63393-96-4	Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides
EC50/48h	0.16 mg/l (daphnia) (OECD 202)
LC50/96h	0.15 mg/l (fish) (OECD 203)
ErC50 / 72 h	0.29 mg/l (algae) (OECD 201)
ErC10/72h	0.138 mg/L (algae) (OECD 201)
Persistence	and degradability
80-62-6 metl	nyl methacrylate
Biodegradation	on 94 % /14d (not defined) (OECD 301C)
	4-butandioldimethacrylate
	on 84 % /28d (not defined) (OECD 310)
	entha-1,4-diene
	on 27 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)
	Quaternary ammonium compounds, tri-C8-10-alkylmethyl, chlorides
Biodegradati	on 10-<20 % /60d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)

- · Behaviour 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 product to reach ground water, water bodies or sewage system. Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

- Results of PBT and vPvB assessment
 - · PBT: Not applicable.
 - vPvB: Not applicable.

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· Other adverse effects No further relevant information available.

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13 Disposal considerations

- · 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.

- Uncleaned packagings: Recommendation:

· Stowage Category

Disposal must be made according to official regulations. Non contaminated packagings can be used for recycling.

UN-Number · ADG, IMDG, IATA	UN1247
UN proper shipping name ADG	1247 METHYL METHACRYLATE MONOME
· IMDG, IATA	STABILIZED solution METHYL METHACRYLATE MONOME STABILIZED solution
Transport hazard class(es)	
ADG	
· Class · Label	3 (F1) Flammable liquids. 3
· IMDG, IATA	
3	
· Class · Label	3 Flammable liquids. 3
Packing group · ADG, IMDG, IATA	II
Environmental hazards: Marine pollutant:	No
Special precautions for user Kemler Number: EMS Number:	Warning: Flammable liquids. 339 F-E,S-D



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· Stowage Code	SW2 Clear of living quarters.
Transport in bulk according to Annex Marpol and the IBC Code	II of Not applicable.
· Transport/Additional information:	-
· ADG · Limited quantities (LQ) · Excepted quantities (EQ) · Transport category · Tunnel restriction code	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml 2 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 3 ml Maximum net quantity per outer packaging: 50 ml
· UN "Model Regulation":	UN 1247 METHYL METHACRYLATE MONOMER STABILIZED SOLUTION, 3, II

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
· Australian Inventory of Industrial Chemicals
80.62.6 mothyl mothacylate

80-62-6	80-62-6 methyl methacrylate	
	1,4-butandioldimethacrylate	
147315-50-2	2-(4,6-diphenyl-1,3,5-triazin-2-yl)-5-((hexyl)oxy)-phenol	
99-85-4	p-Mentha-1,4-diene	
5137-55-3	methyltrioctylammonium chloride	
	copper(2+) chloride hydrate (1:2:2)	
7732-18-5	water, distilled, conductivity or of similar purity	

- · 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 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 vapour. H226 Flammable liquid and vapour.

H227 Combustible liquid. H301 Toxic if swallowed.

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H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H361 Suspected of damaging fertility or the unborn child.

Abbreviations and acronyms:

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
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

PB1. Fersistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Flam. Liq. 4: Flammable liquids – Category 4 Acute Tox. 3: Acute toxicity – Category 3 Skin Corr. 1C: Skin corrosion/irritation – Category 1C Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

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

* Data compared to the previous version altered.