

Page 1/10

Safety Data Sheet according to WHS Regulations

Printing date 04.08.2022 Version number 4 Revision: 04.08.2022

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

- · Product identifier
 - · Trade name: Palapress 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, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear protective gloves / eye protection.

IF ON SKIN: Wash with plenty of soap and water.

Call a doctor if you feel unwell.

· Other hazards -

(Contd. on page 2)



Page 2/10

Safety Data Sheet according to WHS Regulations

Printing date 04.08.2022 Version number 4 Revision: 04.08.2022

Trade name: Palapress liquid

(Contd. of page 1)

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

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

· Description: Product based on methacrylates

	rous 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	
150-76-5	mequinol	≥0.1-<1%
	Acute Tox. 4, H302; Eye Irritation 2A, H319; Skin Sens. 1, H317	

[·] 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 symptoms.
 - · After skin contact If skin irritation continues, consult a doctor.
 - · 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.

In case of persistent symptoms consult doctor.

- Information for doctor
 - · Most important symptoms and effects, both acute and delayed Allergic reactions
 - 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.
 - 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.

- 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 material from reaching sewage system, holes and cellars.

(Contd. on page 3)



Page 3/10

Safety Data Sheet according to WHS Regulations

Printing date 04.08.2022 Version number 4 Revision: 04.08.2022

Trade name: Palapress liquid

(Contd. of page 2)

· 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 7 for information on safe handling

See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.

7 Handling and Storage

· Handling

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.

· 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.

· 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 item 7.
- · Control parameters

· Components with	critical values	that require	monitoring	at the work	place:

80-62-6 methyl methacrylate

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

Sen

150-76-5 meguinol

WES Long-term value: 5 mg/m3

Sen

· DNELs

80-62-6 methyl methacrylate

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

(Contd. on page 4)



Page 4/10

Safety Data Sheet according to WHS Regulations

Printing date 04.08.2022 Version number 4 Revision: 04.08.2022

Trade name: Palapress liquid

				(Contd. of page
	general population, acute		208 mg/m3 (not defined)	
	general population, long term, systemic		74.3 mg/m3 (not defined)	
	' 1,4-butandioldimethacı	•		
Oral	general population, long	term, systemic	2.5 mg/Kg (not defined)	
Dermal	worker industrial, long te	rm, systemic	4.2 mg/Kg/d (not defined)	
	general population, long	term, systemic	2.5 mg/Kg/d (not defined)	
Inhalative	worker professional, long	g term, systemic	14.5 mg/m3 (not defined)	
	general population, long	term, systemic	4.3 mg/m3 (not defined)	
150-76-5 i	mequinol			
Inhalative	worker industrial, long te	rm, systemic	3 mg/m3 (not defined)	
٠	PNECs			
80-62-6 m	ethyl methacrylate			
freshwate	r	0.94 mg/l (not a	lefined)	
marine wa	nter	0.094 mg/l (not	defined)	
sewage tre	eatment plant	10 mg/l (not dei	fined)	
sediment, dry weight, freshwater		10.2 mg/Kg (no	t defined)	
sediment, dry weight, marine water		0.102 mg/Kg (n	ot defined)	
soil, dry weight 1.4		1.48 mg/Kg (no	t defined)	
2082-81-7	' 1,4-butandioldimethacı	rylate		
freshwate	r	0.043 mg/l (not	defined)	
marine water		0.004 mg/l (not	defined)	
sewage treatment plant 2 mg/l		2 mg/l (not defir	ned)	
sediment,	dry weight, freshwater	3.12 mg/Kg (no	,	
sediment, dry weight, marine water		0.312 mg/Kg (n	ot defined)	
soil, dry weight 0.573 mg/Kg (not defined)				
150-76-5 ı	mequinol			
freshwate	r	0.014 mg/l (not	defined)	
marine wa	nter	0.001 mg/l (not defined)		
sewage tre	eatment plant	10 mg/l (not det	fined)	
sediment,	dry weight, freshwater	0.125 mg/Kg (n	ot defined)	
sediment,	dry weight, marine water	. .	,	
soil, dry w	eight	0.017 mg/Kg (n	ot defined)	

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

· 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).

(Contd. on page 5)



Page 5/10

Safety Data Sheet according to WHS Regulations

Printing date 04.08.2022 Version number 4 Revision: 04.08.2022

Trade name: Palapress liquid

(Contd. of page 4)

· 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: Tightly sealed safety glasses.
- · Body protection: Light weight protective clothing

9 Physica	I and Chemica	al Properties
-----------	---------------	---------------

General Information Appearance:	
· Form:	Fluid
· Colour:	Colourless
· Smell:	Ester-like
· Odour threshold:	Not determined.
· pH-value:	Mixture is non-soluble (in water).
Change in condition Melting point/freezing point: Initial boiling point and boiling ra	-48 °C nnge: 100 °C
· Flash point:	15 °C
· Inflammability (solid, gaseous)	Not applicable.
· Ignition temperature:	430 °C
· Decomposition temperature:	Not determined.
·SAPT	
Palapress liquid > 60 °C	
Self-inflammability:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation o explosive air/vapour mixtures is possible.
Critical values for explosion: Lower:	2.1 Vol %
· Lower:	2.1 Vol %



Page 6/10

Safety Data Sheet according to WHS Regulations

Printing date 04.08.2022 Version number 4 Revision: 04.08.2022

Trade name: Palapress liquid

		(Contd. of page
· Upper:	12.5 Vol %	
· Steam pressure at 20 °C:	47 hPa	
Density at 20 °C Relative density Vapour density Evaporation rate	0.94559 g/cm³ Not determined. Not determined. Not determined.	
Solubility in / Miscibility with Water at 20 °C:	1.6 g/l	
· Partition coefficient: n-octanol/v	vater: Not determined.	
Viscosity: dynamic at 20 °C: kinematic:	1 mPas Not determined.	
Solvent content: Water:	0.1 %	
· Solids content:	0.0 %	
· Other information	No further relevant information available.	

10 Stability and Reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · 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

7.00.0	conforty		
· LD/	· LD/LC50 values that are relevant for classification:		
80-62-6 m	ethyl met	hacrylate	
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	1,4-butar	ndioldimethacrylate	
Oral LD50 10,066 mg/kg (rat) (OECD 401)			
150-76-5 i	mequinol		
Oral	LD50	1,630 mg/kg (ATE)	
		1,630 mg/kg (rat)	
Dermal	LD50	>2,000 mg/kg (rat)	
			(Contd. on page 7)



Page 7/10

Safety Data Sheet according to WHS Regulations

Revision: 04.08.2022 Printing date 04.08.2022 Version number 4

Trade name: Palapress liquid

(Contd. of page 6)

- · Primary irritant effect:
 - · Skin corrosion/irritation Irritant for skin and mucous membranes.

- Respiratory or skin sensitisation Sensitization possible by skin contact.

 Additional toxicological information: Irritant

 CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

 Reproductive toxicity Based on available data, the classification criteria are not met.

Toxicity	
· Aquatic t	oxicity:
80-62-6 meth	hyl 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)
EbC50 / 72h	>110 mg/l (algae) (OECD 201)
NOEC/ 35d	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)
	9.79 mg/l (algae) (OECD 201)
	2.11 mg/l (algae) (OECD 201)
	25 mg/l (fish)
ErC10/72h	4.35 mg/L (algae) (OECD 201)
150-76-5 me	
EC50/72h	19 mg/l (algae) (OECD 201)
EC50/21d	1.42 mg/L (daphnia) (OECD 211)
EC50/48h	3 mg/l (daphnia) (OECD 202)
LC50/96h	28.5 mg/l (fish) (OECD 203)
	0.68 mg/l (daphnia) (OECD 211)
	54.7 mg/l (algae) (OECD 201)
NOEC / 48h	1.32 mg/l (daphnia) (OECD 202)
Persistence	and degradability
	hyl methacrylate
	on 94 % /14d (not defined) (OECD 301C)
•	4-butandioldimethacrylate
	on 84 % /28d (not defined) (OECD 310)
150-76-5 me	quinol

Behaviour in environmental systems:

· Bioaccumulative potential No further relevant information available.

(Contd. on page 8)



Page 8/10

Safety Data Sheet according to WHS Regulations

Printing date 04.08.2022 Version number 4 Revision: 04.08.2022

Trade name: Palapress liquid

(Contd. of page 7)

- · 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 bodies or sewage system.

Do not allow product 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.
- 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.

Disposal must be made according to official regulations.

- · Uncleaned packagings:
 - Recommendation:

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

14 Transport information

14 Hansport Information	
· UN-Number · ADG, IMDG, IATA	UN1247
· UN proper shipping name · ADG	1247 METHYL METHACRYLATE MONOMER, STABILIZED solution
· IMDG, IATA	METHYL METHACRYLATE MONOMER, STABILIZED solution

- · Transport hazard class(es)
 - · ADG



· Class 3 (F1) Flammable liquids. 4 Label 3

· IMDG, IATA



· Class 3 Flammable liquids. · Label 3

(Contd. on page 9)



Page 9/10

Safety Data Sheet according to WHS Regulations

Printing date 04.08.2022 Version number 4 Revision: 04.08.2022

Trade name: Palapress liquid

	(Contd. of page
· Packing group · ADG, IMDG, IATA	II
· Environmental hazards: · Marine pollutant:	No
Special precautions for user Kemler Number: EMS Number: Stowage Category Stowage Code	Warning: Flammable liquids. 339 F-E,S-D B SW2 Clear of living quarters.
Transport in bulk according to Annex I 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: 3 ml Maximum net quantity per outer packaging: 50 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

	ry Imormation Ith and environmental regulations/legislation specific for the substance or mixture
· Aı	ıstralian Inventory of Industrial Chemicals
80-62-6	methyl methacrylate
2082-81-7	1,4-butandioldimethacrylate
<i>5137-55-3</i>	methyltrioctylammonium chloride
131-57-7	Oxybenzone
13395-16-9	copper(II) 4-oxopent-2-en-2-olate
150-76-5	mequinol
7732-18-5	water, distilled, conductivity or of similar purity
· Aı	ıstralia: Priority Existing Chemicals
None of the	ingredients is listed.

Directive 2012/18/EU

(Contd. on page 10)

 $[\]cdot \textit{Named dangerous substances - ANNEX I} \ \textit{None of the ingredients is listed}.$



Page 10/10

Safety Data Sheet according to WHS Regulations

Printing date 04.08.2022 Version number 4 Revision: 04.08.2022

Trade name: Palapress liquid

(Contd. of page 9)

· 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 • 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.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation. **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 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 PBI: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1B: Skin sensitisation – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
**Pata compared to the province version altored

* Data compared to the previous version altered.