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Safety Data Sheet according to WHS Regulations

Date of issue: 15.05.2025

Version number 4

Revision: 15.05.2025

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

· Other means of identification

• Trade name: Paladon 65 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 Flammable liquids – Category 2 Skin corrosion/irritation – Category 2 Skin sensitisation – Category 1 Specific target organ toxicity (single exposure) – Category 3

H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
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



· Signal word Danger

 Hazard-determining components of labelling: methyl methacrylate (>90 %) Tetramethylene dimethacrylate (≥1-≤5 %)
 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. Do not breathe dust/fume/gas/mist/vapours/spray.

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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.

• **vPvB:** Not applicable.

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

· Description: Product based on methacrylates

· Dangerous components:

Danger	ous components.	
80-62-6	methyl methacrylate	>90%
	Flammable liquids – Category 2, H225 Skin corrosion/irritation – Category 2, H315; Skin sensitisation – Category 1, H317; Specific target organ toxicity (single exposure) – Category 3, H335	
2082-81-7		<i>≥</i> 1-≤5%
	Skin sensitisation – Category 1B, H317	
99-85-4	p-Mentha-1,4-diene	<1%
	Flammable liquids – Category 3, H226 Reproductive toxicity – Category 2, H361	
· Additio	nal 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.
- · 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.

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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.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues). Do not flush with water or aqueous cleansing agents
- Send for recovery or disposal in suitable containers.

Reference to other sections

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

7 Handling and Storage

· Handling

- Precautions for safe handling
- Keep containers tightly sealed.
- 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.
- · 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.

Appropi	iate engineering controls No further data; see section 7.	
Compor	ents with critical values that require monitoring at the workplace:	
80-62-6	nethyl methacrylate	
WES SF Lo Se		
ا · D	IFI s	
	IELs nethyl methacrylate	

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		<i>, , ,</i> ,	(Contd. of page 3)	
	general population, long	· •	8.2 mg/Kg/d (not defined)	
Inhalative	worker industrial, acute,		416 mg/m3 (not defined)	
	worker industrial, long te	· ·	348.4 mg/m3 (not defined)	
	worker industrial, long te		208 mg/m3 (not defined)	
	general population, acute		208 mg/m3 (not defined)	
	general population, long		74.3 mg/m3 (not defined)	
2082-81-7	Tetramethylene dimeth			
Oral	general population, long	•	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	-	14.5 mg/m3 (not defined)	
	general population, long	term, systemic	4.3 mg/m3 (not defined)	
· PNE	ECs			
80-62-6 m	ethyl methacrylate			
freshwater	r	0.94 mg/l (not a	lefined)	
marine wa	ter	0.094 mg/l (not	defined)	
sewage tre	eatment plant	10 mg/l (not dei	fined)	
sediment,	dry weight, freshwater	10.2 mg/Kg (not defined)		
sediment,	dry weight, marine water	0.102 mg/Kg (not defined)		
soil, dry w	eight	1.48 mg/Kg (not defined)		
2082-81-7	Tetramethylene dimeth			
freshwater	~	0.043 mg/l (not	,	
marine wa	ter	0.004 mg/l (not	defined)	
sewage tre	eatment 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 (n	ot defined)	
soil, dry we	-	0.573 mg/Kg (n	,	
		ts that were valid	d during the compilation were used as basis.	
Personal	protective equipment	ia magaziroa		
	al protective and hygien way from foodstuffs, beve			
Instanti	ly remove any soiled and	impregnated ga	rments.	
Wash h	ands during breaks and a	at the end of the		
	contact with the eyes and	skin.		
· Breath Not ne	ing equipment:	local exhaust l	If exposition to vapours is possible, use breathing	
	ive mask (filter A).			
Protec	tion of hands:			
		impermeable	and resistant to the product/ the substance/ the	
prepara Selecti degrad	on of the glove material	on consideratio	n of the penetration times, rates of diffusion and the	
		l, protective glov	ves are recommended to avoid possible sensitization. (Contd. on page 5)	



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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

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:	-48 °C
Initial boiling point and boiling	range: 100.3 °C
Flash point:	11.5 °C
Inflammability (solid, gaseous)	Not applicable.
Auto-ignition temperature:	430 °C
 Decomposition temperature: 	Not determined.
Self-inflammability:	Product is not selfigniting.
Explosive properties:	Product is not explosive. However, formation of explosive ai
	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	0.940 g/cm³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.
Solubility in / Miscibility with	
· Water:	Not miscible or difficult to mix
Partition coefficient: n-octanol/wa	ter: Not determined.



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Viscosity:

 dynamic at 20 °C:
 kinematic:

 Solvent content:

 VOC USA
 VOC EU

 Other information

 Particle characteristics
 Physical state

1 mPas Not determined.

910.9 g/l / 01.73 lb/gl 913.2 q/l

No further relevant information available. Not applicable. Liquid

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:	50 values that are relevant for classification	on:
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LD/LCOV 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 Tetramethylene dimethacrylate			
Γ	Oral LD50 10,066 mg/kg (rat) (OECD 401)		
99-85-4 p-Mentha-1,4-diene		,4-diene	
Γ	Oral LD50 >2,000 mg/kg (rat) (OECD 423)		
	Dermal LD50 >2,000 mg/kg (rat) (OECD 402)		
_		nary irrita	
			psion/irritation
			in irritation.
			<i>re damage/irritation</i> Based on available data, the classification criteria are not met.
	Res	spiratory c	or skin sensitisation
			allergic skin reaction.
			and the two many stands and the later of the stand of the stand the stand of the stand stand the stand stand the

· 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.

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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)	
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)	
2082-81-7 Tetramethylene dimethacrylate	
EC50/21d 14.1 mg/L (daphnia) (OECD 211)	
EC50/48h 32.5 mg/l (fish)	
NOEC / 21d 5.09 mg/l (daphnia) (OECD 211)	
ErC50 / 72 h 9.79 mg/l (algae) (OECD 201)	
NOEC / 72h 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-Mentha-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)	
· Persistence and degradability	
80-62-6 methyl methacrylate	
Biodegradation 94 % /14d (not defined) (OECD 301C)	
2082-81-7 Tetramethylene dimethacrylate	
Biodegradation 84 % /28d (not defined) (OECD 310)	
99-85-4 p-Mentha-1,4-diene	
Biodegradation 27 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)	
 Behaviour in environmental systems: Bioaccumulative potential No further relevant information available. Mobility in soil No further relevant information available. 	(Contd on page
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· Additional ecological information:

General notes:

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

- · 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.

UN-Number	
· ADG, IMDG, IATA	UN1247
UN proper shipping name	
ADG	1247 METHYL METHACRYLATE MONOMER STABILIZED solution
· IMDG, IATA	METHYL METHACRYLATE MONOMER, STABILIZEL solution
Transport hazard class(es)	
ADG	
Class	3 (F1) Flammable liquids.
Label	3



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· IMDG, IATA	
· Class · Label	3 Flammable liquids. 3
· Packing group · ADG, IMDG, IATA	11
• 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 Marpol and the IBC Code 	T II of Not applicable.
· Transport/Additional information:	-
• ADG • Limited quantities (LQ) • Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
 Transport category Tunnel restriction code 	2 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1247 METHYL METHACRYLATE MONOME STABILIZED SOLUTION, 3, II

15 Regulatory information

• Safety, health and environmental regulations/legislation specific for the substance or mixture • Australian Inventory of Industrial Chemicals

All ingredients are listed.

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

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 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 (EU) No 649/2012

None of the ingredients are included.

National regulations

The product is subject to classification in accordance with the prevailing version of the regulations on hazardous materials.

· Other regulations, limitations and prohibitive regulations

· AICS - Australian Inventory of Chemical Substances

All ingredients are listed.

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.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H361 Suspected of damaging fertility or the unborn child.

Abbreviations and acronyms:

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

INDO: International Manufile Gode 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)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Śchweiz (Swiss Ordinance on volatile organic compounds) VOC: Volatile Organic Compounds (USA, EU)

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, bloaccumulative and Tokic VPvB: very Persistent and very Bioaccumulative Flammable liquids – Category 2: Flammable liquids – Category 2 Flammable liquids – Category 3: Flammable liquids – Category 3 Skin corrosion/irritation – Category 2: Skin corrosion/irritation – Category 2

Skin sensitisation – Category 1: Skin sensitisation – Category 1

Skin sensitisation – Category 1: Skin sensitisation – Category 1 Skin sensitisation – Category 1B: Skin sensitisation – Category 1B Reproductive toxicity – Category 2 Specific target organ toxicity (single exposure) – Category 3: Specific target organ toxicity (single exposure) – Category 3

* Data compared to the previous version altered.