

Safety Data Sheet according to WHS Regulations

Printing date 02.08.2022

Version number 4

Revision: 02.08.2022

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Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification · Product identifier · Trade name: Paladent 20 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 Tel: +61 (02) 9153 0311 Australia · 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. Do not breathe mist/vapours/spray. Wear protective gloves / eye protection. 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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Trade name: Paladent 20 liquid

· vPvB: Not applicable.

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

	iption: Product based on methacrylates
-	

-	ous 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>≥</i> 1- <i>≤</i> 5%
	Skin Sens. 1B, H317	
99-85-4	p-Mentha-1,4-diene	<1%
	Flam. Liq. 3, H226 Repr. 2, H361	
· Additio	nal 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
- Instantly wash with water and soap and rinse thoroughly.
- 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 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. • 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. Avoid contact with eyes and skin.

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- (Contd. of page 2)
 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.
 T 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.
 - · 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

	onents with critical values that require	monitoring at the workplace:	
	ethyl methacrylate		
WES Sho Lon Sen	rt-term value: 416 mg/m³, 100 ppm g-term value: 208 mg/m³, 50 ppm		
· L	DNELs		
80-62-6 m	ethyl 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)	
		•	(Contd. on page



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Trade name: Paladent 20 liquid

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Trade name: Paladent 20 liquid

· Body protection: Light weight protective clothing

9 Physical and Chemical Propert	ies
Information on basic physical and ch General Information	emical properties
· Appearance:	Lieusia
· Form:	Liquid
· Colour:	Colourless Ester-like
· Smell:	
· Odour threshold:	Not determined.
· pH-value:	Mixture is non-soluble (in water).
• Change in condition • Melting point/freezing point: • Initial boiling point and boiling b	-48 °C range: 100 °C
· Flash point:	10 °C
· Inflammability (solid, gaseous)	Not applicable.
· Ignition temperature:	430.0 °C
 Decomposition temperature: 	Not determined.
· SAPT	
Paladent 20 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: Upper: 	2.1 Vol % 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 at 20 °C:	15.9 g/l
· Partition coefficient: n-octanol/wat	ter: Not determined.
 Viscosity: dynamic at 20 °C: kinematic: 	1 mPas Not determined.
· 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. (Contd. on page 6)

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Trade name: Paladent 20 liquid

· Possibility of hazardous reactions No	o dangerous reactions known
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· 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.

	on on toxi toxicity	cological effects
· LD/	/LC50 valu	es that are relevant for classification:
80-62-6 n	nethyl 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)
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)
Res Additi The pr Classii Irritant CM	Serious ey spiratory c onal toxic oduct show fication Gui R effects (nt effect: psion/irritation Irritant for skin and mucous membranes. we damage/irritation No irritant effect. For skin sensitisation Sensitization possible by skin contact. ological information: ws the following dangers according to the calculation method of the General EC idelines for Preparations as issued in the latest version: (carcinogenity, mutagenicity and toxicity for reproduction) tive toxicity Based on available data, the classification criteria are not met.

1	2 E	col	logi	ical	Infe	orm	atio	n

· Toxicity		
· Aquatic t		
80-62-6 meth	nyl 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)	
<u></u>		(Contd. on page 7)



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-	4-butandioldimethacrylate
	14.1 mg/L (daphnia) (OECD 211)
EC50/48h	
	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)
.	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)
	and degradability
	hyl methacrylate
-	on 94 % /14d (not defined) (OECD 301C)
	4-butandioldimethacrylate
Biodegradatio	on 84 % /28d (not defined) (OECD 310)
	entha-1,4-diene
Biodegradatio	on 27 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)
Bioaccun Mobility i Additional e General r Do not all sewage s Results of P PBT: Not	low undiluted product or large quantities of it to reach ground water, water bodies or ystem. BT and vPvB assessment
· Other advers	se effects No further relevant information available.
13 Disposal d	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.

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14 Transport information · UN-Number · ADG, IMDG, IATA UN1247 · UN proper shipping name · ÀDĠ 1247 METHYL METHACRYLATE MONOMER, STABILIZED solution METHYL METHACRYLATE MONOMER, · IMDG, IATA STABILIZED solution · Transport hazard class(es) · ADG · Class 3 (F1) Flammable liquids. · Label · IMDG, IATA · Class 3 Flammable liquids. · Label 3 Packing group ADG, IMDG, IATA \parallel · Environmental hazards: · Marine pollutant: No Warning: Flammable liquids. Special precautions for user · Kemler Number: 339 · EMS Number: F-E,S-D · Stowage Category В · Stowage Code SW2 Clear of living quarters. · Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: · ADG Limited quantities (LQ) 1L · Excepted quantities (ÉQ) Code: E2 Maximum net quantity per inner packaging: 30 тI Maximum net quantity per outer packaging: 500 тI 2 · Transport category · Tunnel restriction code D/E (Contd. on page 9)



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	ml
· UN "Model Regulation":	UN 1247 METHYL METHACRYLATE MONOMER, STABILIZED SOLUTION, 3, II
Safety, health and environmental regu Australian Inventory of Indus All ingredients are listed.	Ilations/legislation specific for the substance or mixture trial Chemicals
· Qualifying quantity (tonnes) for	the application of lower-tier requirements 5.000 t the application of upper-tier requirements 50.000 t ical Safety Assessment has not been carried out.

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: 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 IMDG: 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) 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 LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Otim Sens. 4D: Otimocrecitedia. 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. AU