

Safety Data Sheet according to WHS Regulations

Printing date 05.07.2018

Version number 4

Revision: 05.07.2018

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Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

· Product identifier

Trade name: Dentalon plus 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 11 – 21 Underwood Rd HOMEBUSH NSW 2140 Australia

Tel: +61 (0) 2 9764 5222

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. 3 H226 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 Warning

• Hazard-determining components of labelling: n-butyl methacrylate

methyltrioctylammonium chloride ethyl methacrylate

Hazard statements 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. Use explosion-proof electrical/ventilating/lighting equipment. Avoid breathing dust/fume/gas/mist/vapours/spray. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with

water/shower. Specific treatment (see on this label). Store locked up.

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Trade name: Dentalon plus liquid

· 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 com 	ponents:	
	n-butyl methacrylate Flam. Liq. 3, H226; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	75-90%
CAS: 97-63-2 EINECS: 202-597-5	ethyl methacrylate Flam. Liq. 2, H225; Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317; STOT SE 3, H335	5-10%
CAS: 25973-55-1	2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol	0-5%
·SVHC		
25973-55-1 2-(2H-b	enzotriazol-2-yl)-4,6-di-tert-pentylphenol	
Additional infor	mation 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.
- · 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.

Product based on methacrylates

- 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.
- Water with a full water 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.

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

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.
- · Conditions for safe storage, including any incompatibilities
 - Storage
 - Requirements to be met by storerooms and containers: No special requirements. • Information about storage in one common storage facility: Not required.
 - Further information about storage conditions: Store cool (not above 25 $^{\circ}$ C).
- · 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 workplace:
 - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· DNELs

97-88-1 n-butyl methacrylate

- Dermal worker industr., I.te., local 5 mg/Kg/d (nd)
- Inhalative worker industr., I.te., local 409 mg/m3 (nd)

· PNECs

97-88-1 n-butyl methacrylate

freshwater 0.17 mg/l (nd)

· 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.

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(Contd. of pag	ge 3)
Wash hands during breaks and at the end of the work.	
Avoid contact with the eyes and skin.	
Breathing equipment: Not required.	
Protection of hands:	
The glove material has to be impermeable and resistant to the product/ the substance/ preparation.	the
Selection of the glove material on consideration of the penetration times, rates of diffusion the degradation	and
If skin contact cannot be avoided, protective gloves are recommended to avoid poss sensitization.	ible
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 further marks of quality and varies from manufacturer to manufacturer. As the product preparation of several substances, the resistance of the glove material can not calculated in advance and has therefore to be checked prior to the application.	is a
Penetration time of glove material	
The exact break trough time has to be found out by the manufacturer of the protec	;tive
gloves and has to be observed.	
• For the permanent contact of a maximum of 15 minutes gloves made of the follow materials are suitable:	/ing
Butyl rubber, BR	
Nitrile rubber, NBR	
· Eve protection:	
Protective goggles are recommended.	
Tightly sealed safety glasses.	
· Body protection: Light weight protective clothing	
0 Physical and Chamical Properties	
9 Physical and Chemical Properties	

Information on basic physical and che General Information	emical properties	
· Appearance:		
Form:	Fluid	
· Colour:	Colourless	
· Smell:	Characteristic	
 Odour threshold: 	Not determined.	
· pH-value:	Not determined.	
 Change in condition Melting point/freezing point: Initial boiling point and boiling r 	Not determined ange: 119 ℃	
· Flash point:	24 °C	
· Inflammability (solid, gaseous)	Not applicable.	
· Ignition temperature:	490.0 ℃	
 Decomposition temperature: 	Not determined.	
· Self-inflammability:	Product is not selfigniting.	
		(Contd. on page



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		(Contd. of page 4)
· Explosive properties:	Product is not explosive. However, explosive air/vapour mixtures is possible.	formation of
Critical values for explosion: Lower: Upper:	Not determined. Not determined.	
· Steam pressure at 20 °C:	40 hPa	
Density at 20 ℃ Relative density Vapour density Evaporation rate	0.940 g/cm ³ Not determined. Not determined. Not determined.	
Solubility in / Miscibility with Water:	Not miscible or difficult to mix	
· Partition coefficient: n-octanol/w	water: Not determined.	
 Viscosity: dynamic at 20 °C: kinematic: 	1 mPas Not determined.	
Solvent content:		
Solids content: Other information	1.0 % 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.

on toxicol (icity	ogical effects	
50 values	that are relevant for classification:	
tyl metha	crylate	
LD50	> 2000 mg/kg (rat)	
LD50	> 2000 mg/kg (rabbit)	
LC50/4 h	4910 mg/l (rat)	
Sensib.	sensib. (nd)	
liurethand	imethacrylate	
LD50	>5000 mg/kg (rat)	
	ricity 50 values tyl methad LD50 LD50 LC50/4 h Sensib. liurethand	50 values that are relevant for classification:tyl methacrylateLD50> 2000 mg/kg (rat)LD50> 2000 mg/kg (rabbit)LC50/4 h4910 mg/l (rat)Sensib.sensib. (nd)liurethandimethacrylate



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97-63-2 ethy	l methacry	ylate
Oral	LD50	14800 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (can)
Inhalative	LC50/4 h	38 mg/l (rat)
5137-55-3 m	ethyltrioct	tylammonium chloride
Oral	LD50	223 mg/kg (rat)
	ry irritant e	
		on/irritation Irritant for skin and mucous membranes.
		damage/irritation Irritant effect.
		kin sensitisation Sensitization possible by skin contact.
· Additiona	al toxicolo	gical information:
The produ	ict shows i	the following dangers according to the calculation method of the General EC
Classificat	tion Guidel	lines for Preparations as issued in the latest version:

Irritant

 Waste treatment methods Recommendation Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Small quantities can be polymerized with the matching system component(s) and the cured sol material can be disposed of with the regular garbage. Larger quantities must be disposed of 	97-85-1 n-butyl methacrylate EC50/72h 31.2 mg/l (algae) (OECD 201) EC50/48h 25.4 mg/l (daphnia) (OECD 202 Teil 1) LC50/96h 5.57 mg/l (fish) • Persistence and degradability No further relevant information available. • 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. Danger to drinking water if even small quantities leak into soil. • PBT: Not applicable. • VPVB: Not applicable. • Other adverse effects No further relevant information available. • Waste treatment methods	
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material can be disposed of with the regular garbage. Larger quantities must be disposed		
following the regulations of the local authorities	Small quantities can be polymerized with the matching system component(s) and the cured s	- 1
	following the regulations of the local authorities.	iol.

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

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· UN-Number · ADG, IMDG, IATA	1993
UN proper shipping name ADG IMDG, IATA	1993 FLAMMABLE LIQUID, N.O.S. (not viscou (BUTYL METHACRYLATE, STABILIZED, ETH METHACRYLATE, STABILIZED) FLAMMABLE LIQUID, N.O.S. (BUT
	METHACRYLATE, STABILIZED, ETH METHACRYLATE, STABILIZED)
Transport hazard class(es)	
ADG	
· Class · Label	3 (F1) Flammable liquids. 3
· IMDG, IATA	
· Class · Label	3 Flammable liquids. 3
· Packing group · ADG, IMDG, IATA	111
Environmental hazards: Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids.
Kemler Number: EMS Number:	30 F-E,S-E
• Transport in bulk according to Annex Marpol and the IBC Code	·
Transport/Additional information:	-
UN "Model Regulation":	UN1993, FLAMMABLE LIQUID, N.O.S., spec provision 640E (n-BUTYL METHACRYLAT STABILIZED, ETHYL METHACRYLAT STABILIZED), 3, III

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture
 GHS label elements
 The product is classified and labelled according to the Globally Harmonised System (GHS).
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 (Contd. on page 8)

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(Contd. of page 7) Hazard pictograms GHS02 GHS07 · Signal word Warning · Hazard-determining components of labelling: n-butyl methacrylate methyltrioctylammonium chloride ethyl methacrylate Hazard statements 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. Use explosion-proof electrical/ventilating/lighting equipment. Avoid breathing dust/fume/gas/mist/vapours/spray. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Specific treatment (see on this label). Store locked up. National regulations · Other regulations, limitations and prohibitive regulations Substances of very high concern (SVHC) according to REACH, Article 57 25973-55-1 2-(2H-benzotriazol-2-yl)-4,6-di-tert-pentylphenol · 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.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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) International Carriage of Dangerous Goods by Hoad) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals 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

LC50: Lethal concentration, 50 percent

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Safety Data Sheet according to WHS Regulations

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Trade name: Dentalon plus liquid

LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern 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 Eye Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 • * Data compared to the previous version altered.

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