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### Safety Data Sheet according to WHS Regulations

Printing date 05.12.2024

Version number 1

Revision: 05.12.2024

Hazardous according to criteria of Australian Safety and Compensation Council.

### 1 Identification · Product identifier · Trade name: Signum universal bond I · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Application of the substance / the mixture Dental bonding material · 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. Serious eve damage/irritation – Category 2A H319 Causes serious eve irritation. STOT SE 3 H336 May cause drowsiness or dizziness. · 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 statements Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness. · 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. If eye irritation persists: Get medical advice/attention. Other hazards -Results of PBT and vPvB assessment · PBT: Not applicable.

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· vPvB: Not applicable.

Chemical characterisation: Mixtures · Description: -		
· Dangero	us components:	
67-64-1	acetone Flam. Liq. 2, H225 Serious eye damage/irritation – Category 2A, H319; STOT SE 3, H336	>90%
85590-00-7	10-(Phosphonooxy)decyl methacrylate Skin Irrit. 2, H315; Serious eye damage/irritation – Category 2A, H319; STOT SE 3, H335	0-5%
64-19-7	acetic acid Flam. Liq. 3, H226 Skin Corr. 1A, H314; Eye Dam. 1, H318 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 90 % Skin Corr. 1B; H314: 25 % ≤ C < 90 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	<u>≥</u> 1-<39

### 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.

- 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

- Suitable extinguishing agents
- CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- For safety reasons unsuitable extinguishing agents 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.

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· Protective equipment:

Wear self-contained breathing apparatus.

Wear full protective suit.

Additional information Cool endangered containers with water spray jet.

### 6 Accidental Release Measures

• **Personal precautions, protective equipment and emergency procedures** Avoid contact with eyes and skin. 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).

Ensure adequate ventilation.

Send for recovery or disposal in suitable containers.

- **Reference to other sections** 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

#### nananng and

· Handling

Precautions for safe handling

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

• Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

<sup>.</sup> Storage

• **Requirements to be met by storerooms and containers:** Dry place, storage temperature <25 ° C • **Information about storage in one common storage facility:** Not required.

• Further information about storage conditions: Store container in a well ventilated position.

• 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:

67-64-1 acetone

WES Short-term value: 2375 mg/m<sup>3</sup>, 1000 ppm

Long-term value: 1185 mg/m<sup>3</sup>, 500 ppm

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64-19-7 a	cetic acid		(Contd. of page 3
WES Sho	rt-term value: 37 mg/m³,	15 ppm	
Lon	g-term value: 25 mg/m³, 1	10 ppm	
·DN	ELs		
67-64-1 a	cetone		
Oral	general population, long	term, systemic	62 mg/Kg (not defined)
Dermal	worker industrial, long te	rm, systemic	186 mg/Kg/d (not defined)
	general population, long	term, systemic	62 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, systemic		1,210 mg/m3 (not defined)
	worker industrial, long te		2,420 mg/m3 (not defined)
	general population, long	term, systemic	200 mg/m3 (not defined)
·PN	ECs		
67-64-1 a	cetone		
freshwate	·	10.6 mg/l (not	defined)
marine wa	ter	1.06 mg/l (rabl	•
-	eatment plant	19.5 mg/l (not	,
	dry weight, freshwater	30.4 mg/Kg (n	
	dry weight, marine water		
soil, dry w		0.112 mg/Kg (i	not defined) id during the compilation were used as basis.
Avoid ( Keep a Instant Wash Avoid ( <b>Breath</b> Filter A	al protective and hygien contact with the eyes. way from foodstuffs, beve ly remove any soiled and hands during breaks and contact with the eyes and ing equipment:	erages and food impregnated ga at the end of the	arments.
			··· ·· · · · · · · · · · · · · · · · ·
protect • <b>Protec</b>	ccessary with efficient ive mask (filter A). <b>tion of hands:</b>		
protect • <b>Protec</b> The gr prepar	ccessary with efficient i ive mask (filter A). <b>tion of hands:</b> ove material has to be ation.	impermeable	and resistant to the product/ the substance/ th
protect Protect The g prepar Select degrac Check recom	ccessary with efficient i ive mask (filter A). <b>tion of hands:</b> ove material has to be ation. on of the glove material ation protective gloves prior to nended	impermeable on consideratio	If exposition to vapours is possible, use breathin and resistant to the product/ the substance/ th on of the penetration times, rates of diffusion and th eir proper condition.
protect Protect The g prepar Select degrac Check recom Ma The mai	ccessary with efficient i ive mask (filter A). <b>tion of hands:</b> ove material has to be ation. on of the glove material ation protective gloves prior to mended <b>terial of gloves</b> selection of the suitable is sol quality and varies fi	impermeable on consideratio each use for the e gloves does rom manufactur stance of the glo	and resistant to the product/ the substance/ the on of the penetration times, rates of diffusion and the eir proper condition. not only depend on the material, but also on further rer to manufacturer. As the product is a preparation of by e material can not be calculated in advance and ha



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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: Tightly sealed safety glasses.
Body protection: Protective work clothing. Light weight protective clothing

### 9 Physical and Chemical Properties

· General Information	
· Appearance:	
· Form:	Fluid
· Colour:	Colourless
· Smell:	Acetone-like
· Odour threshold:	Not determined.
· pH-value at 20 °C:	5-6
Change in condition	00
• Melting point/freezing point:	Not determined
· Initial boiling point and boiling i	
· Flash point:	-3 °C
· Inflammability (solid, gaseous)	Not applicable.
• Decomposition temperature:	Not determined.
· Self-inflammability:	Product is not selfigniting.
• Explosive properties:	Product is not explosive. However, formation of explosive air/
	vapour mixtures is possible.
<ul> <li>Critical values for explosion:</li> </ul>	
Lower:	2.6 Vol %
Upper:	13 Vol %
· Steam pressure at 20 °C:	247 hPa
· Density at 20 °C	0.8 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/wat	t <b>er:</b> Not determined.
· Viscosity:	
· dynamic:	Not determined.
· kinematic:	Not determined.
· 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: -

### 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:

67-64-1 acetone	
Oral LD50	5,800 mg/kg (rat)
Dermal LD50	>15,800 mg/kg (rabbit)
Inhalative LC50/4 h	76 mg/l (rat)
64-19-7 acetic acid	
Oral LD50	3,310 mg/kg (rat)
Inhalative LC50/4 h	11.4 mg/l (rat) (OECD 403)
Germ cell mutag Carcinogenicity Reproductive to STOT-single exp May cause drows STOT-repeated e	kin sensitisation Based on available data, the classification criteria are not met. enicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. xicity Based on available data, the classification criteria are not met. bosure iness or dizziness. exposure Based on available data, the classification criteria are not met. ard Based on available data, the classification criteria are not met. rd Based on available data, the classification criteria are not met.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Toxicity		
· Aquatic	toxicity:	
67-64-1 ace	tone	
EC50/48h	8,800 mg/l (daphnia)	
LC50/96h	6,210 mg/l (fish) (OECD 203)	



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64-19-7 acet	ic acid
	>300.82 mg/l (daphnia) (OECD 202)
LC50/96h	>1,000 mg/l (fish) (OECD 203)
ErC50 / 72 h	>1,000 mg/l (algae)
NOEC / 72h	1,000 mg/l (algae)
NOEC / 96h	1,000 mg/l (fish) (OECD 203)

### Persistence and degradability

### 67-64-1 acetone

Biodegradation 90.9 % /28d (not defined) (OECD 301D)

#### 64-19-7 acetic acid

Biodegradation 96 % /20d (not defined)

· Behaviour in environmental systems:

• Bioaccumulative potential No further relevant information available.

· Mobility in soil No further relevant information available.

### 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.

UN1090	
1090 ACETONE solution ACETONE solution	
	1090 ACETONE solution



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<ul> <li>Transport hazard class(es)</li> </ul>	
ADG	
· Class · Label	3 (F1) Flammable liquids. 3
· IMDG, IATA	
· Class · Label	3 Flammable liquids. 3
· Packing group · ADG, IMDG, IATA	11
Environmental hazards: Marine pollutant:	No
<ul> <li>Special precautions for user</li> <li>Kemler Number:</li> <li>EMS Number:</li> <li>Stowage Category</li> </ul>	Warning: Flammable liquids. 33 F-E,S-D E
<ul> <li>Transport in bulk according to Annex Marpol and the IBC Code</li> </ul>	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 m
<ul> <li>Transport category</li> <li>Tunnel restriction code</li> </ul>	2 D/E
·IMDG	
<ul> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 m
· UN "Model Regulation":	UN 1090 ACETONE SOLUTION, 3, II

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### 15 Regulatory information

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

67-64-1 acetone

64-19-7 acetic acid

128-37-0 2,6-di-tert-butyl-p-cresol

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

Directive 2012/18/EU

- Named dangerous substances ANNEX I None of the ingredients is listed.
- Seveso category P5c FLAMMABLE LIQUIDS
- $\cdot$  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

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

67-64-1 acetone

64-19-7 acetic acid

128-37-0 2,6-di-tert-butyl-p-cresol

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. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. 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 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)

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LC50: Lethal concentration, 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 Corr. 1A: Skin corrosion/irritation – Category 1A Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Serious eye damage/irritation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 · \* Data compared to the previous version altered.