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# Safety Data Sheet according to WHS Regulations

Printing date 05.12.2024 Version number 5 Revision: 05.12.2024

Hazardous according to criteria of Australian Safety and Compensation Council.

#### 1 Identification

- · Product identifier
  - · Trade name: Signum metal 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 Metal-Resin Bonding System
- · Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:

Kulzer Australia Pty Ltd Unit 20, 53 Lorraine St PEAKHURST NSW 2210 Australia

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 eye damage/irritation – Category 2A H319 Causes serious eye 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 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.

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## 3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
  - Description: -

· Dangero	us components:	
67-64-1	acetone	>90%
	Flam. Liq. 2, H225 Serious eye damage/irritation – Category 2A, H319; STOT SE 3, H336	
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 %	_ ≥1-<3%

<sup>·</sup> Additional 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 rinse with water.

If skin irritation continues, consult a doctor.

· After eve 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.

- 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 -

#### 6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Avoid contact with eyes and skin.

Use breathing protection against the effects of fumes/dust/aerosol.

- · 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 13 for information on disposal.

See Section 8 for information on personal protection equipment.

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### 7 Handling and Storage

· Handling

· Precautions for safe handling

Keep containers tightly sealed.

Ensure good ventilation/exhaustion at the workplace.

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 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 section 7.
- Components with critical values that require monitoring at the workplace:

67-64-1 acetone

WES Short-term value: 2375 mg/m³, 1000 ppm Long-term value: 1185 mg/m³, 500 ppm

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64-19-7 ad	64-19-7 acetic acid				
WES Sho Lon	WES Short-term value: 37 mg/m³, 15 ppm Long-term value: 25 mg/m³, 10 ppm				
· DNI	ELs				
67-64-1 ad	cetone				
Oral	general population, long term, systemic		62 mg/Kg (not defined)		
Dermal	Dermal worker industrial, long term, system general population, long term, sys		186 mg/Kg/d (not defined)		
			62 mg/Kg/d (not defined)		
Inhalative	worker industrial, long term, systemic		1,210 mg/m3 (not defined)		
	worker industrial, long te	rm, local 2,420 mg/m3 (not defined)			
	general population, long	term, systemic	200 mg/m3 (not defined)		
· PNI	ECs				
67-64-1 acetone					
freshwater		10.6 mg/l (not defined)			
marine water		1.06 mg/l (rabbit)			
sewage treatment plant		19.5 mg/l (not defined)			
sediment, dry weight, freshwater		30.4 mg/Kg (not defined)			
sediment, dry weight, marine water		3.04 mg/Kg (not defined)			
soil, dry weight		0.112 mg/Kg (not defined)			

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

### · Personal protective equipment

#### · General protective and hygienic measures

Avoid contact with the eyes.

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:

Filter AX.

Not neccessary with efficient local exhaust. If exposition to vapours is possible, use breathing protective mask (filter A).

#### 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

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.

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Penetration time of glove material

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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

· Melting point/freezing point: Not determined

Initial boiling point and boiling range: 55 °C
Flash point: -3 °C

· Inflammability (solid, gaseous) Not applicable.

· Auto-ignition temperature: 465 °C

Decomposition temperature: Not determined.
Self-inflammability: Product is not selfigniting.

Explosive properties: Product is not explosive. However, formation of explosive air/

Not determined.

vapour mixtures is possible.

Critical values for explosion:

Lower: 2.6 Vol %
Upper: 13.0 Vol %
Steam pressure at 20 °C: 247 hPa
Density Not determined
Relative density Not determined.
Vapour density Not determined.
Not determined.

Evaporation rate Solubility in / Miscibility with

Water: Not miscible or difficult to mix

· Partition coefficient: n-octanol/water: Not determined.

Viscosity:

· dynamic: Not determined. · kinematic: Not determined.

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· Other information

No further relevant information available.

## 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 v	alues that a	re relevant	tor cla	essificat	ion:
1 1 acotono					

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)		

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Causes sérious eye irritation.
- Respiratory or skin sensitisation Based on available data, the classification criteria are not met.
- · 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.
- STOT-single exposure

May cause drowsiness or dizziness.

- · 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.
- Subacute to chronic toxicity:

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

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### 12 Ecological Information

· Aquatic toxicity:

· Toxicity

riquitio toxiony.		
67-64-1 acetone		
8,800 mg/l (daphnia)		
6,210 mg/l (fish) (OECD 203)		
64-19-7 acetic acid		
>300.82 mg/l (daphnia) (OECD 202)		
>1,000 mg/l (fish) (OECD 203)		
>1,000 mg/l (algae)		
1,000 mg/l (algae)		
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.

### 14 Transport information

· UN-Number

· **ADG, IMDG, IATA** UN1090

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## Trade name: Signum metal bond I

(Contd. of page 7) · UN proper shipping name ÀDĠ 1090 ACETONE solution · IMDG, IATA ACETONE solution · Transport hazard class(es) · ADG · Class 3 (F1) Flammable liquids. ·Label · IMDG, IATA 3 Flammable liquids. · Class · Label · Packing group · ADĞ, ĬMDĠ, IATA II· Environmental hazards: · Marine pollutant: No · Special precautions for user Warning: Flammable liquids. · Kemler Number: 33 F-E,S-D · EMS Number: Ε Stowage Category · Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. · Transport/Additional information: Limited quantities (LQ) 1L · Excepted quantities (ÉQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml · Transport category · Tunnel restriction code D/E ·IMDG · Limited quantities (LQ) 1L · Excepted quantities (ÉQ) Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml (Contd. on page 9)



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UN "Model Regulation":

UN 1090 ACETONE SOLUTION, 3, II

## 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
  - 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 quarantee 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 Aria Transport & Foreign (1988)

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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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 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 2A: Serious eye damage/eye irritation – Category 2A
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
\*\* Data compared to the provious version alford

\* Data compared to the previous version altered.