

Safety Data Sheet according to WHS Regulations

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Version number 4

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Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification · Product identifier · Trade name: Signum metal bond II · 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 11 – 21 Underwood Rd HOMEBUSH NSW 2140 Tel: +61 (0) 2 9764 5222 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 diphényl(2,4,6- trimethylbenzoyl)phosphine oxide 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. 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.

· Other hazards -

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· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

vPvB: Not applicable.

3 Composition and Information on Ingredients

· Chemical characterisation: Mixtures

· Description: -

2000110111			
· Dangerous components:			
CAS: 80-62-6 EINECS: 201-297-1	methyl methacrylate Flam. Liq. 2, H225; Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	50-75%	
CAS: 75980-60-8 EINECS: 278-355-8	diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide Repr. 2, H361; Skin Sens. 1B, H317	0-5%	
· 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.
- 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, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. **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: Wear self-contained breathing apparatus.
- · Additional information -

6 Accidental Release Measures

 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
 Environmental precautions:

Do not allow to enter drainage system, surface or ground water.

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Do not allow to enter the ground/soil. · Methods and material for containment and cleaning up: Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues). 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 ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- 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.
- · 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 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

· Compon	ents with critical values that require monitoring at the workplace:
80-62-6 met	hyl methacrylate
NES (Austra	lia) Short-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm
PEL (USA)	410 mg/m ³ , 100 ppm
REL (USA)	410 mg/m ³ , 100 ppm
TLV (USA)	Short-term value: 410 mg/m ³ , 100 ppm Long-term value: 205 mg/m ³ , 50 ppm SEN
· DN	IELs
80-62-6 met	hyl methacrylate
Dermal w	orker industr., l.te., syst. 74.3 mg/Kg/d (human)
Inhalative w	orker industr., l.te., syst. 210 mg/m3 (human)
· PN	ECs
80-62-6 met	hyl methacrylate
freshwater (0.94 mg/l (aqua)
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(Contd. of page 3) • 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. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin. Breathing equipment: 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 If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization. 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: Safety glasses · Body protection: Protective work clothing. 9 Physical and Chemical Properties · Information on basic physical and chemical properties General Information Appearance: Form: Fluid · Colour: White · Smell: Characteristic · Odour threshold: Not determined. · pH-value: Not determined. · Change in condition • Melting point/freezing point: Not determined · Initial boiling point and boiling range: 100 $^\circ$ C · Flash point: 10 °C

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 Inflammability (solid, gaseous) 	Not applicable.
Ignition temperature:	430 °C
· 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.
Critical values for explosion: Lower: Upper:	2,1 Vol % 12,5 Vol %
· Steam pressure at 20 ℃:	47 hPa
Density Relative density Vapour density Evaporation rate	Not determined Not determined. Not determined. Not determined.
Solubility in / Miscibility with Water:	Not miscible or difficult to mix
· Partition coefficient: n-octanol/v	vater: Not determined.
Viscosity: dynamic: kinematic: Other information	Not determined. Not determined. 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.

11 Toxicological Information

· Information on toxicological effects

- · Acute toxicity
- · LD/LC50 values that are relevant for classification:

80-62-6	methyl	methacrylate
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Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rab)
Inhalative	LC50/4 h	29.8 mg/l (rat)

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41137-60-4 diurethandimethacrylate

Oral LD50 >5000 mg/kg (rat)

75980-60-8 diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

Oral LD50 > 5000 mg/kg (rat) Primary irritant effect:

• Skin corrosion/irritation Irritant for skin and mucous membranes.

- Serious eye damage/irritation No irritant effect.
- Respiratory or skin sensitisation Sensitization possible by skin contact.
- · Additional toxicological information: Irritant

· Toxicity

Aquatic toxicity:

75980-60-8 diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide

EC50/48h 10 100 mg/l (algae)

10 - 100 mg/l (daphnia)

• 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.
- · 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.

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

UN-Number ADG, IMDG, IATA	UN1247
	0111247
UN proper shipping name	
ADĠ	1247 METHYL METHACRYLATE MONOME
	STABILIZED, solution
· IMDG, IATA	METHYL METHACRYLATE MONOMER
<i>,</i>	STABILIZED solution



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· Transport hazard class(es)	
ADG	
Class	3 (F1) Flammable liquids.
	3
· IMDG, IATA	
3	
· Class	3 Flammable liquids.
· Label	3
· Packing group · ADG, IMDG, IATA	11
· Environmental hazards:	
· Marine pollutant:	No
· Special precautions for user	Warning: Flammable liquids.
· Kemler Number: · EMS Number:	339 F-E,S-E
· Stowage Category	Б.
· Stowage Code	SW2 Clear of living quarters.
 Transport in bulk according to Annex Marpol and the IBC Code 	Il of Not applicable.
· Transport/Additional information:	-
ADG	
 Limited quantities (LQ) Excepted quantities (EQ) 	1L Code: E2
• Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 3
	ml
	Maximum net quantity per outer packaging: 50 ml
· Transport category	2
• Tunnel restriction code	D/E
 Limited quantities (LQ) Excepted quantities (EQ) 	1L Code: E2
	Maximum net quantity per inner packaging: 3
	ml
	Maximum net quantity per outer packaging: 50 ml
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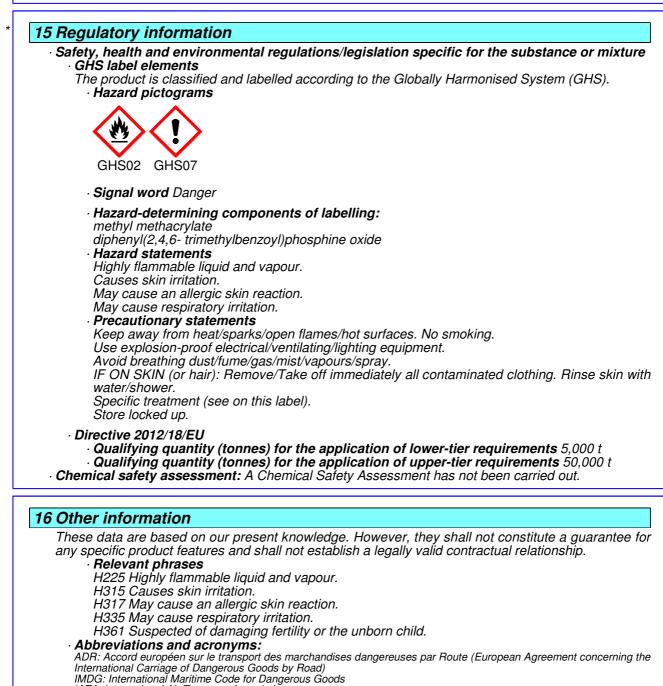
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· UN "Model Regulation":

UN1247, METHYL METHACRYLATE MONOMER, STABILIZED, solution, 3, II



IATA: International Air Transport Association

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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 DD5: Lethal concentration, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Skin Irrit. 2: Skin corrosion/irritation – Category 1 Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1B: Skin sensitisation – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 • * Data compared to the previous version altered.

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