



**Safety Data Sheet  
according to WHS Regulations**

Printing date 27.07.2021

Version number 2

Revision: 19.07.2021

Hazardous according to criteria of Australian Safety and Compensation Council.

## 1 Identification

· **Product identifier**

· Trade name: **dima print Cast**

· **Relevant identified uses of the substance or mixture and uses advised against**

· Product category PC0 Other

· 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  
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**

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

Skin Sens. 1 H317 May cause an allergic skin reaction.

· **Label elements**

· **GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

· **Hazard pictograms**



GHS07

· **Signal word** Warning

· **Hazard-determining components of labelling:**

7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate

2-hydroxyethyl methacrylate

phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

ethylenglycoldimethacrylate

· **Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

May cause an allergic skin reaction.

· **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wash thoroughly after handling.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

IF ON SKIN: Wash with plenty of water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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- **Other hazards -**
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

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### 3 Composition and Information on Ingredients

- **Chemical characterisation: Mixtures**
- **Description: -**

· <b>Dangerous components:</b>		
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diyl bismethacrylate Eye Irrit. 2A, H319; Skin Sens. 1, H317	≥50-≤75%
868-77-9	2-hydroxyethyl methacrylate Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	≥10-≤50%
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide Skin Sens. 1, H317	≥1-≤5%
97-90-5	ethylenglycoldimethacrylate Skin Sens. 1, H317; STOT SE 3, H335 Specific concentration limit: STOT SE 3; H335: C ≥ 10 %	≥1-≤5%

- **Additional 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 rinse with water.  
If skin irritation continues, consult a doctor.
  - **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.
- **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**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet.  
Use fire fighting measures that suit the environment.
  - **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **Advice for firefighters**
  - **Protective equipment:**  
Wear self-contained breathing apparatus.

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Wear full protective suit.  
· **Additional information** -

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### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Do not breathe vapor / mist / gas.  
Avoid contact with eyes and skin.
- **Environmental precautions:** Do not allow product to reach sewage system or water bodies.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).  
Dispose of the material collected according to regulations.
- **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

- **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.
- **Conditions for safe storage, including any incompatibilities**
  - **Storage**
    - **Requirements to be met by storerooms and containers:**  
Store in cool, dry place in tightly closed containers.  
Protect from the effects of light.
    - **Information about storage in one common storage facility:**  
Store away from oxidising agents.
    - **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

- **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.  
Not required.

· <b>DNELs</b>		
<b>162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide</b>		
Oral	ge.pop., acu., syst.	1.67 mg/Kg (nd)
	ge.pop., l.te, syst.	1.5 mg/Kg (nd)
Dermal	worker industr., acute, syst.	3.33 mg/Kg/d (nd)

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Inhalative	worker industr., l.te., syst.	3.33 mg/Kg/d (nd)
	ge.pop., acu., syst.	1.67 mg/Kg/d (nd)
	ge.pop., l.te, syst.	1.5 mg/Kg/d (nd)
	worker industr., acute, syst.	7.84 mg/m <sup>3</sup> (nd)
	worker industr., l.te., syst.	7.84 mg/m <sup>3</sup> (nd)
	ge.pop., acu., syst.	3.92 mg/m <sup>3</sup> (nd)
	ge.pop., l.te, syst.	1.93 mg/m <sup>3</sup> (nd)

**97-90-5 ethylenglycoldimethacrylate**

Oral	ge.pop., l.te, syst.	0.83 mg/Kg (nd)
Dermal	worker industr., l.te., syst.	1.3 mg/Kg/d (nd)
	ge.pop., l.te, syst.	0.83 mg/Kg/d (nd)
Inhalative	worker profess., l.te., syst.	2.45 mg/m <sup>3</sup> (nd)
	ge.pop., l.te, syst.	1.45 mg/m <sup>3</sup> (nd)

**· PNECs**

**162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide**

freshwater	0.001 mg/l (nd)
marine water	0.001 mg/l (nd)
interm. wat. release	0.001 mg/l (nd)
STP	1 mg/l (nd)
sedim., dw, fre.wat.	0.712 mg/Kg (nd)
sedim., dw, mar.wat.	0.712 mg/Kg (nd)
soil,dw	20 mg/Kg (nd)

**97-90-5 ethylenglycoldimethacrylate**

freshwater	0.139 mg/l (nd)
marine water	0.014 mg/l (nd)
STP	57 mg/l (nd)
sedim., dw, fre.wat.	1.6 mg/Kg (nd)
sedim., dw, mar.wat.	0.16 mg/Kg (nd)
soil,dw	0.239 mg/Kg (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.
- Wash hands during breaks and at the end of the work.
- Avoid contact with the eyes and skin.

**· Breathing equipment:** Filter P2.

**· Protection of hands:**

- 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

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- *calculated in advance and has therefore to be checked prior to the application.*
- **Penetration time of glove material**  
*The exact break through 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:** *Light weight protective clothing*

## 9 Physical and Chemical Properties

### · Information on basic physical and chemical properties

#### · General Information

##### · Appearance:

- **Form:** Fluid
- **Colour:** Red
- **Smell:** Ester-like
- **Odour threshold:** Not determined.

- **pH-value:** Not determined.

#### · Change in condition

- **Melting point/freezing point:** Not determined
- **Initial boiling point and boiling range:** > 200 °C

- **Flash point:** Not applicable

- **Inflammability (solid, gaseous)** Not applicable.

- **Ignition temperature:** 375 °C

- **Decomposition temperature:** Not determined.

- **Self-inflammability:** Product is not selfigniting.

- **Explosive properties:** Product is not explosive.

#### · Critical values for explosion:

- **Lower:** Not determined.
- **Upper:** Not determined.

- **Steam pressure:** Not determined.

- **Density** Not determined
  - **Relative density at 20 °C** 1.1 - 1.2
  - **Vapour density** Not determined.
  - **Evaporation rate** Not determined.

#### · Solubility in / Miscibility with

- **Water:** Not miscible or difficult to mix

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

#### · Viscosity:

- **dynamic at 20 °C:** 1.0 -1.4 Pas
- **kinematic:** Not determined.

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· **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.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** Heat, flames and sparks.
- **Incompatible materials:** Strong oxidizers
- **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:**

**868-77-9 2-hydroxyethyl methacrylate**

Oral	LD50	5564 mg/kg (rat)
Dermal	LD50	>5000 mg/kg (rabbit)

**162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide**

Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat)

**97-90-5 ethylenglycoldimethacrylate**

Oral	LD50	8700 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rat) (OECD 402)

- **Primary irritant effect:**
  - **Skin corrosion/irritation** Irritant for skin and mucous membranes.
  - **Serious eye damage/irritation** Irritant effect.
- **Respiratory or skin sensitisation** Sensitization possible by skin contact.
- **Additional toxicological information:**
  - **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
  - **Reproductive toxicity** Based on available data, the classification criteria are not met.

### 12 Ecological Information

- **Toxicity**

· **Aquatic toxicity:**

**162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide**

EC50/72h	>0.26 mg/l (algae) (OECD 201)
EC50/48h	>1.175 mg/l (daphnia) (OECD 202)
LC50/96h	>0.09 mg/l (fish) (OESO 203)

**97-90-5 ethylenglycoldimethacrylate**

EC50/48h	44.9 mg/l (daphnia) (OECD 202)
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LC50/96h	15.95 mg/l (fish) (OECD 203)
NOEC / 21d	5.05 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	19 mg/l (algae) (OECD 201)
NOEC / 72h	0.804 mg/l (algae) (OECD 201)
NOEC / 48h	13.2 mg/l (daphnia) (OECD 202)
EbC50 / 72h	10.1 mg/l (algae) (OECD 201)

**· Persistence and degradability**

**97-90-5 ethylenglycoldimethacrylate**

Biodegradation 71.2 % /28d (nd) (OECD 301D)

**· 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.

**· 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.

**14 Transport information**

**· UN-Number**

**· ADG, IMDG, IATA**

UN3082

**· UN proper shipping name**

**· ADG**

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate)

**· IMDG**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate), MARINE POLLUTANT

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· IATA

**ENVIRONMENTALLY HAZARDOUS  
SUBSTANCE, LIQUID, N.O.S. (7,7,9(or 7,9,9)-  
trimethyl-4,13-dioxo-3,14-dioxa-5,12-  
diazahexadecane-1,16-diyl bismethacrylate)**

· Transport hazard class(es)

· ADG



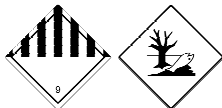
· Class

9 (M6) Miscellaneous dangerous substances  
and articles.

· Label

9

· IMDG, IATA



· Class

9 Miscellaneous dangerous substances and  
articles.

· Label

9

· Packing group

· ADG, IMDG, IATA

III

· Environmental hazards:

· Marine pollutant:

Symbol (fish and tree)

· Special marking (ADG):

Symbol (fish and tree)

· Special marking (IATA):

Symbol (fish and tree)

· Special precautions for user

Warning: Miscellaneous dangerous substances and  
articles.

· Kehler Number:

90

· EMS Number:

F-A, S-F

· Stowage Category

A

· Transport in bulk according to Annex II of  
Marpol and the IBC Code

Not applicable.

· Transport/Additional information:

-

· ADG

· Limited quantities (LQ)

5L

· Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30  
ml

Maximum net quantity per outer packaging:  
1000 ml

· Transport category

3

· Tunnel restriction code

-

· IMDG

· Limited quantities (LQ)

5L

· Excepted quantities (EQ)

Code: E1

Maximum net quantity per inner packaging: 30

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ml  
Maximum net quantity per outer packaging:  
1000 ml

· **UN "Model Regulation":** UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (7,7,9(OR 7,9,9)-TRIMETHYL-4,13-DIOXO-3,14-DIOXA-5,12-DIAZAHEXADECANE - 1,16-DIYL BISMETHACRYLATE), 9, III

### 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· **Australian Inventory of Industrial Chemicals**

868-77-9 2-hydroxyethyl methacrylate

162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide

· **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.

· **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t

· **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t

· **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**

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 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)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· **\* Data compared to the previous version altered.**