



**Safety Data Sheet
according to WHS Regulations**

Printing date 22.11.2022

Version number 1

Revision: 22.11.2022

Hazardous according to criteria of Australian Safety and Compensation Council.

1 Identification

· **Product identifier**

· **Trade name:** **dima Print Denture Base, dima Denture Base Try-in, dima Print Denture Teeth, dima Print C&B Temp**

· **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
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 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

Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide

· **Hazard statements**

May cause an allergic skin reaction.

· **Precautionary statements**

Avoid release to the environment.

Wear protective gloves.

IF ON SKIN: Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

· **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: -**

· **Dangerous components:**

72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxo-5,12-diazahexadecane-1,16-diy l bismethacrylate Skin Sens. 1B, H317	30-50%
75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide Repr. 2, H361 Skin Sens. 1B, H317	<3%
150-76-5	Mequinol Acute Tox. 4, H302; Eye Irritation 2A, H319; Skin Sens. 1, H317	<1%

· **Additional information** For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

· **Description of first aid measures**

· **General information** Personal protection for the First Aider.

· **After inhalation** Supply fresh air; consult doctor in case of symptoms.

· **After skin contact** If skin irritation continues, consult a doctor.

· **After eye contact**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

Rinse opened eye for several minutes under running water. Then consult doctor.

· **After swallowing**

In case of persistent symptoms consult doctor.

Mund ausspülen und reichlich Wasser nachtrinken.

· **Information for doctor**

· **Most important symptoms and effects, both acute and delayed** Allergic reactions

· **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 fire with alcohol-resistant foam.

Use fire fighting measures that suit the environment.

· **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.

· **Additional information -**

6 Accidental Release Measures

· **Personal precautions, protective equipment and emergency procedures**

Avoid contact with eyes and skin.

Wear protective equipment. Keep unprotected persons away.

Particular danger of slipping on leaked/spilled product.

Personen in Sicherheit bringen.

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- **Environmental precautions:**
Inform respective authorities in case product reaches water or sewage system.
Prevent material from reaching sewage system, holes and cellars.
Nicht in die Kanalisation/Oberflächenwasser/Grundwasser gelangen lassen.
- **Methods and material for containment and cleaning up:**
Collect mechanically.
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

- **Handling**
 - **Precautions for safe handling**
Avoid contact with eyes and skin.
Particular danger of slipping on leaked/spilled product.
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 only in the original container.
 - **Information about storage in one common storage facility:**
Store away from oxidising agents.
Store away from reducing agents.
 - **Further information about storage conditions:**
Store container in a well ventilated position.
Store in a cool place. Heat will increase pressure and may lead to the container exploding.
- **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:**

150-76-5 Mequinol

WES	Long-term value: 5 mg/m ³
Sen	

- **DNELs**

41637-38-1 Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid

Oral	general population, long term, systemic	600 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	300 mg/Kg/d (not defined)
	general population, long term, systemic	1 mg/Kg/d (not defined)

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Inhalative	worker industrial, long term, systemic	3.52 mg/m ³ (not defined)
	general population, long term, systemic	0.87 mg/m ³ (not defined)
72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate		
Oral	general population, long term, systemic	0.3 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	1.3 mg/Kg/d (not defined)
	general population, long term, systemic	0.7 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, systemic	3.3 mg/m ³ (not defined)
	general population, long term, systemic	0.6 mg/m ³ (not defined)
3290-92-4 Propylidynetrimehyl trimethacrylate		
Oral	general population, long term, systemic	1.5 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	42 mg/Kg/d (not defined)
	general population, long term, systemic	15 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, systemic	14.81 mg/m ³ (not defined)
	general population, long term, systemic	2.6 mg/m ³ (not defined)
75980-60-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide		
Oral	general population, long term, systemic	0.0833 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	0.233 mg/Kg/d (not defined)
	general population, long term, systemic	0.0833 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, systemic	0.822 mg/m ³ (not defined)
	general population, long term, systemic	0.145 mg/m ³ (not defined)
150-76-5 Mequinol		
Inhalative	worker industrial, long term, systemic	3 mg/m ³ (not defined)

PNECs

72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate		
freshwater		0.01 mg/l (not defined)
marine water		0.001 mg/l (not defined)
sewage treatment plant		3.61 mg/l (not defined)
sediment, dry weight, freshwater		4.56 mg/Kg (not defined)
sediment, dry weight, marine water		0.46 mg/Kg (not defined)
3290-92-4 Propylidynetrimehyl trimethacrylate		
freshwater		0.00276 mg/l (not defined)
marine water		0.000276 mg/l (not defined)
sewage treatment plant		10 mg/l (not defined)
sediment, dry weight, freshwater		0.495 mg/Kg (not defined)
sediment, dry weight, marine water		0.05 mg/Kg (not defined)
soil, dry weight		0.097 mg/Kg (not defined)
75980-60-8 Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide		
freshwater		0.0014 mg/l (not defined)
marine water		0.00014 mg/l (not defined)
sediment, dry weight, freshwater		0.115 mg/Kg (not defined)
sediment, dry weight, marine water		0.0115 mg/Kg (not defined)

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soil, dry weight	0.0222 mg/Kg (not defined)
150-76-5 Mequinol	
freshwater	0.014 mg/l (not defined)
marine water	0.001 mg/l (not defined)
sewage treatment plant	10 mg/l (not defined)
sediment, dry weight, freshwater	0.215 mg/Kg (not defined)
sediment, dry weight, marine water	0.013 mg/Kg (not defined)
soil, dry weight	0.017 mg/Kg (not defined)

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

· **Exposure controls**

· **Personal protective equipment**

· **General protective and hygienic measures**

Instantly remove any soiled and impregnated garments.
Wash hands during breaks and at the end of the work.

· **Breathing equipment:** Not required.

· **Protection of hands:**

If skin contact cannot be avoided, protective gloves are recommended to avoid possible sensitization.

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 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:**

Protective goggles are recommended.
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:** White
Pink

· **Smell:** Ester-like

· **Odour threshold:** Not determined.

· **pH-value:** Not determined.

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· Change in condition	
· Melting point/freezing point:	Not determined
· Initial boiling point and boiling range:	101 °C
· Flash point:	>140 °C
· Inflammability (solid, gaseous)	Not applicable.
· Decomposition temperature:	Not determined.
· SAPT	
dima Print Denture Base, dima Denture Base Try-in, dima Print Denture Teeth, dima Print C&B Temp	75 °C
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. Not determined.
· Critical values for explosion:	
· Lower:	Not determined.
· Upper:	Not determined.
· Steam pressure:	Not determined.
· Density	Not determined
· 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/water:	Not determined.
· Viscosity:	
· dynamic:	Not determined.
· kinematic:	Not determined.
· Other information	No further relevant information available.

10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
Not stable, avoid heat and direct sunlight; polymerizes in the presence of metal powders, peroxides, strong oxidizing agents and free radical initiators.
 - **Conditions to be avoided:** No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** Exothermic polymerisation
- **Conditions to avoid** Heat, flames and sparks.
- **Incompatible materials:**
 - Strong acids
 - Strong oxidizers
 - Radical initiator
 - Starke Basen
- **Hazardous decomposition products:**
 - Carbon monoxide and carbon dioxide
 - Phosphorus oxides (e.g. P2O5)

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· **Additional information:** -

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11 Toxicological Information

· **Information on toxicological effects**

· **Acute toxicity**

· **LD/LC50 values that are relevant for classification:**

41637-38-1 Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid

Oral LD50 >2,000 mg/kg /read-a (rat) (OECD 423)

Dermal LD50 >2,000 mg/kg (rat) (OECD 402)

72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate

Oral LD50 >5,000 mg/kg (rat) (OECD 401)

Dermal LD50 >2,000 mg/kg (rat) (OECD 402)

3290-92-4 Propylidyntrimethyl trimethacrylate

Oral LD0 >2,000 mg/kg (rat) (OECD 423)

Dermal LD0 >2,000 mg/kg (rat) (OECD 402)

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

Oral LD50 >5,000 mg/kg (rat) (OECD 401)

Dermal LD50 >2,000 mg/kg (rat) (OECD 402)

150-76-5 Mequinol

Oral LD50 >1,000-<2,000 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat) (EU B.3)

· **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:**

41637-38-1 Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid

LL50/96h >100 mg/L (fish)

EL50/48h >100 mg/L (daphnia) (OECD 202)

EL50/72h >100 mg/L (algae) (OECD 201)

72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate

EC50/48h >1.2 mg/l (daphnia) (OECD 202)

LC50/96h 10.1 mg/l (fish) (OECD 203)

ErC50 / 72 h >0.68 mg/l (algae) (OECD 201)

NOEC / 72h 0.21 mg/l (algae) (OECD 201)

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3290-92-4 Propylidynetrimehyl trimethacrylate

EC50/48h	>9.22 mg/l (daphnia) (OECD 202)
LC50/96h	2 mg/l (fish) (OECD 203)
ErC50 / 72 h	3.88 mg/l (algae) (OECD 201)
NOEC / 72h	0.177 mg/l (algae) (OECD 201)
NOEC / 96h	1 mg/l (fish) (OECD 203)
NOEC / 48h	≥9.2 mg/l (daphnia) (OECD 202)
EbC50 / 72h	1.11 mg/l (algae) (OECD 201)
NOEC/ 32d	0.138 mg/L (fish) (OECD 210)

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

EC50/48h	3.53 mg/l (daphnia) (OECD 202)
LC50/96h	1.4 mg/l (fish) (OECD 203)
ErC50 / 72 h	>2.01 mg/l (algae) (OECD 201)
ErC10	1.56 mg/L (algae) (OECD 201)

150-76-5 Mequinol

EC50/72h	19 mg/l (algae) (OECD 201)
LC50/21d	>1.45 mg/L (daphnia) (OECD 211)
EC50/21d	1.42 mg/L (daphnia) (OECD 211)
EC50/48h	3 mg/l (daphnia) (OECD 202)
LC50/96h	28.5 mg/l (fish) (OECD 203)
NOEC / 21d	0.68 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	54.7 mg/l (algae) (OECD 201)
NOEC / 48h	1.32 mg/l (daphnia) (OECD 202)

· Persistence and degradability

41637-38-1 Esterification products of 4,4'-isopropylidenediphenol, ethoxylated and 2-methylprop-2-enoic acid

Biodegradation 24 % /28d (not defined) (OECD 301D)

72869-86-4 7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate

Biodegradation 22 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)

3290-92-4 Propylidynetrimehyl trimethacrylate

Biodegradation 53 % /28d (not defined) (OECD 301B; ISO/ 9439/ EEC 92/69/V, C.4-C)

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

Biodegradation 0-10 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)

150-76-5 Mequinol

Biodegradation 100 % /28d (not defined) (OECD 301C)

· Behaviour in environmental systems:

· **Bioaccumulative potential** No further relevant information available.

· **Mobility in soil** No further relevant information available.

· Ecotoxicological effects:

· **Remark:** Toxic for fish

· Additional ecological information:

· **General notes:**

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

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*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.

Non contaminated packagings can be used for recycling.

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, Propylidynetrimethyl trimethacrylate)

· **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, Propylidynetrimethyl trimethacrylate), MARINE POLLUTANT

· **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, Propylidynetrimethyl trimethacrylate)

· **Transport hazard class(es)**

· **ADG**



· **Class**

9 (M6) Miscellaneous dangerous substances and articles.

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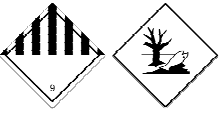
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· Label	9
· IMDG, IATA	
	
· Class	9 Miscellaneous dangerous substances and articles.
· Label	9
· Packing group	
· ADG, IMDG, IATA	III
· Environmental hazards:	
· Marine pollutant:	Symbol (fish and tree)
· Special marking (ADG):	Symbol (fish and tree)
· 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 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, PROPYLIDYNETRIMETHYL TRIMETHACRYLATE), 9, III

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15 Regulatory information

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

· **Australian Inventory of Industrial Chemicals**

All ingredients are listed.

· **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 E2** Hazardous to the Aquatic Environment

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

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

72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate
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3290-92-4	Propylidynetrimethyl trimethacrylate
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75980-60-8	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide
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150-76-5	Mequinol
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108-65-6	2-methoxy-1-methylethyl acetate
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· **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**

H302 Harmful if swallowed.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child.

· **Abbreviations and acronyms:**

SAPT: Self Accelerating Polymerisation Temperature

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

Acute Tox. 4: Acute toxicity – Category 4

Eye Irritation 2A: Serious eye damage/eye irritation – Category 2A

Skin Sens. 1: Skin sensitisation – Category 1

(Contd. on page 12)



Safety Data Sheet
according to WHS Regulations

Printing date 22.11.2022

Version number 1

Revision: 22.11.2022

Trade name: dima Print Denture Base, dima Denture Base Try-in, dima Print Denture Teeth, dima Print C&B Temp

Skin Sens. 1B: Skin sensitisation – Category 1B
Repr. 2: Reproductive toxicity – Category 2

(Contd. of page 11)

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

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