



**Safety Data Sheet  
acc. to OSHA HCS**

Printing date 11/22/2022

Reviewed on 11/22/2022

## 1 Identification

· **Product identifier**

· **Trade name:** dima Print Stone beige, dima Print Stone Gray

· -

· **Application of the substance / the mixture** Manufacture of dental prothesis

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany) Tel.: +49 (0)800 4372522

· **Information department:**

Tel. +1 (800) 431-1785 Fax: +1 (800) 522-1545

e-mail: [customer.servicehka@kulzer-dental.com](mailto:customer.servicehka@kulzer-dental.com)

Tel. +1 (800) 431-1785 Fax: +1 (800) 522-1545

e-mail: [customer.servicehka@kulzer-dental.com](mailto:customer.servicehka@kulzer-dental.com)

· **Emergency telephone number:**

Emergency CONTACT (24-Hour-Number)

ID 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500

## 2 Hazard(s) identification

· **Classification of the substance or mixture**

Skin Irritation 2 H315 Causes skin irritation.

Eye Damage 1 H318 Causes serious eye damage.

Sensitization - Skin 1 H317 May cause an allergic skin reaction.

· **Label elements**

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS05 GHS07

· **Signal word** Danger

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

(2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate

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

(octahydro-4,7-methano-1H-indenyl)methyl acrylate

Tricyclodecane dimethanol diacrylate

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

· **Hazard statements**

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

· **Precautionary statements**

Avoid release to the environment.

Wear protective gloves / eye protection.

If on skin: Wash with plenty of soap and water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

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If eye irritation persists: Get medical advice/attention.

**Classification system**

**NFPA ratings for USA (scale 0-4)**



**HMIS-Ratings (Scale 0-4)**



**Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**3 Composition/information on ingredients**

**Chemical characterization: Mixtures**

**Description:** -

**Dangerous components:**

72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate Sensitization - Skin 1B, H317	≥10-≤50%
93962-84-6	(octahydro-4,7-methano-1H-indenyl)methyl acrylate Skin Irritation 2, H315; Eye Irritation 2A, H319; Sensitization - Skin 1B, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	≥10-<20%
40220-08-4	(2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate Eye Damage 1, H318 Sensitization - Skin 1B, H317	≥10-≤25%
42594-17-2	Tricyclodecane dimethanol diacrylate Sensitization - Skin 1B, H317	≥5-≤25%
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide Sensitization - Skin 1A, H317	≥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 complaints.
- **After skin contact**  
Immediately 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 a doctor.
- **Information for doctor**
  - **Most important symptoms and effects, both acute and delayed**  
No further relevant information available.

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· **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 spray. Fight larger fires with water spray or 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:** No special measures required.
- **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 sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Dispose of the collected material 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 disposal information.
- 

· **Protective Action Criteria for Chemicals**

· <b>PAC-1:</b>		
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate	120 mg/m <sup>3</sup>
13463-67-7	Titanium dioxide	30 mg/m <sup>3</sup>
2530-85-0	3-trimethoxysilylpropyl methacrylate	71 mg/m <sup>3</sup>
64-19-7	acetic acid	5 ppm
· <b>PAC-2:</b>		
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate	1,300 mg/m <sup>3</sup>
13463-67-7	Titanium dioxide	330 mg/m <sup>3</sup>
2530-85-0	3-trimethoxysilylpropyl methacrylate	780 mg/m <sup>3</sup>
64-19-7	acetic acid	35 ppm
· <b>PAC-3:</b>		
72869-86-4	7,7,9(or 7,9,9)-trimethyl-4,13-dioxo-3,14-dioxa-5,12-diazahexadecane-1,16-diyl bismethacrylate	7,900 mg/m <sup>3</sup>
13463-67-7	Titanium dioxide	2,000 mg/m <sup>3</sup>
2530-85-0	3-trimethoxysilylpropyl methacrylate	4,700 mg/m <sup>3</sup>
64-19-7	acetic acid	250 ppm

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### 7 Handling and storage

- **Handling**
  - **Precautions for safe handling** 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 receptacles:**
      - Protect from exposure to the light.
    - **Information about storage in one common storage facility:** Not required.
    - **Further information about storage conditions:** Protect from heat and direct sunlight.
  - **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Control parameters**
  - **Components with limit 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.
    - **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
  - **Personal protective equipment**
    - **General protective and hygienic measures**
      - Avoid contact with the eyes.
      - Immediately remove all soiled and contaminated clothing
      - Wash hands before breaks and at the end of 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:** Not absolutely necessary.
  - **Body protection:** Light weight protective clothing

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## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

##### · Appearance:

##### · Form:

Fluid

##### · Color:

Light brown

Grey

##### · Odor:

Petrol-like

##### · Odor threshold:

Not determined.

##### · pH-value:

Not determined.

#### · Change in condition

##### · Melting point/Melting range:

undetermined

##### · Boiling point/Boiling range:

undetermined

##### · Flash point:

>100 °C (>212 °F)

##### · Flammability (solid, gaseous)

Not applicable.

##### · Decomposition temperature:

Not determined.

##### · Auto igniting:

Product is not selfigniting.

##### · Danger of explosion:

Product does not present an explosion hazard.

#### · Explosion limits:

##### · Lower:

Not determined.

##### · Upper:

Not determined.

##### · Vapor pressure:

Not determined.

##### · Density at 20 °C (68 °F):

ca. 1 g/cm<sup>3</sup> (ca. 8.345 lbs/gal)

##### · Relative density

Not determined.

##### · Vapor 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.

#### · Solvent content:

##### · Water:

0.0 %

##### · Solids content:

0.3 %

#### · Other information

No further relevant information available.

## 10 Stability and reactivity

· **Reactivity** No further relevant information available.

· **Possibility of hazardous reactions**

Photoreactive

Polymerization

· **Conditions to avoid** No further relevant information available.

· **Incompatible materials:** No further relevant information available.

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- **Hazardous decomposition products:** none
- **Additional information:** -

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**11 Toxicological information**

- **Information on toxicological effects**

- **Acute toxicity:**

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

**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)

**127823-21-6 (octahydro-4,7-methano-1H-indenyl)methyl acrylate**

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

**40220-08-4 (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate**

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

**42594-17-2 Tricyclodecane dimethanol diacrylate**

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

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

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

Oral LD50 >2,000 mg/kg (rat) (OECD 401)

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

**131-57-7 Oxybenzone**

Oral LD50 >12,800 mg/kg (rat) (OECD 401)

Dermal LD50 >16,000 mg/kg (rabbit) (OECD 402)

- **Primary irritant effect:**

- **on the eye:** Strong irritant with the danger of severe eye injury.

- **Sensitization:** Sensitization possible through skin contact.

- **Additional toxicological information:**

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

13463-67-7 Titanium dioxide

2B

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

- **Reproductive toxicity**

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

Oral NOAEL (Elterliche Toxizität) >1,000 mg/kg/d (rat)

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**12 Ecological information**

· **Toxicity**

· **Aquatic toxicity:**

**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)

**40220-08-4 (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate**

EC50/48h	158.3 mg/l (daphnia) (OECD 202)
LC50/96h	9.43 mg/l (fish) (OECD 203)
ErC50 / 72 h	25.7 mg/l (algae) (OECD 201)
ErC10/72h	12.9 mg/L (algae) (OECD 201)

**42594-17-2 Tricyclodecane dimethanol diacrylate**

EC50/48h	2.36 mg/l (daphnia) (OECD 202)
LC50/96h	1.65 mg/l (fish) (OECD 203)
ErC50 / 72 h	1.6 mg/l (algae) (OECD 201)

**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)

**131-57-7 Oxybenzone**

EC50/48h	1.87 mg/l (daphnia) (OECD 202)
LC50/96h	3.8 mg/l (fish) (OECD 203)
ErC50 / 72 h	0.67 mg/l (algae) (OECD 201)
NOEC / 72h	0.18 mg/l (algae) (OECD 201)
NOEC / 96h	0.72 mg/l (fish) (OECD 203)
NOEC / 48h	1.15 mg/l (daphnia) (OECD 202)

· **Persistence and degradability**

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

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

**40220-08-4 (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate**

biodegradability	14.5-19.7 % /28d (not defined) (OECD 301F; ISO 9408/ EEC 92/69/V, C.4-D)
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**131-57-7 Oxybenzone**

biodegradability	60-70 % /28d (not defined)
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· **Behavior in environmental systems:**

· **Bioaccumulative potential**

**131-57-7 Oxybenzone**

Biokonzentrationsfaktor (BCF)	>33-<160 (fish) (OECD 305)
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· **Mobility in soil** No further relevant information available.

· **Ecotoxicological effects:**

· **Remark:** Harmful to fish

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- **Additional ecological information:**
  - **General notes:**
    - Harmful to aquatic organisms
    - Do not allow product to reach ground water, water course or sewage system.
    - Danger to drinking water if even small quantities leak into the ground.
  - **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

- |                                  |  |
|----------------------------------|--|
| · <b>UN-Number</b>               | Void   |
| · <b>DOT</b>                     | UN3082   |
| · <b>ADR, IMDG, IATA</b>         |  |
| · <b>UN proper shipping name</b> | Void   |
| · <b>DOT</b>                     | 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, (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate)              |
| · <b>ADR</b>                     |  |
| · <b>IMDG</b>                    | 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, (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate), MARINE POLLUTANT |
| · <b>IATA</b>                    | 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, (2,4,6-trioxo-1,3,5-triazinane-1,3,5-triyl)triethylene triacrylate)                   |

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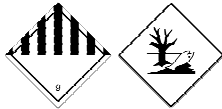
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· **Transport hazard class(es)**

· **DOT**  
· **Class** Void

· **ADR**



· **Class** 9 (M6) Miscellaneous dangerous substances and articles  
· **Label** 9

· **IMDG, IATA**



· **Class** 9 Miscellaneous dangerous substances and articles  
· **Label** 9

· **Packing group**

· **DOT** Void  
· **ADR, IMDG, IATA** III

· **Environmental hazards:**

· **Marine pollutant:** Symbol (fish and tree)  
· **Special marking (ADR):** Symbol (fish and tree)  
· **Special marking (IATA):** Symbol (fish and tree)

· **Special precautions for user**

Warning: Miscellaneous dangerous substances and articles  
· **Hazard identification number (Kemler code):** 90  
· **EMS Number:** F-A, S-F  
· **Stowage Category** A

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

· **Transport/Additional information:** -

· **ADR**

· **Excepted quantities (EQ)** Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

· **IMDG**

· **Limited quantities (LQ)** 5L

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· <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	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, (2,4,6-TRIOXO-1,3,5-TRIAZINANE-1,3,5-TRIYL) TRIETHYLENE TRIACRYLATE), 9, III

**15 Regulatory information**

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

· <b>SARA Section 355 (extremely hazardous substances)</b>
None of the ingredients is listed.

· <b>SARA Section 313 (specific toxic chemical listings)</b>
None of the ingredients is listed.

· <b>Hazardous Air Pollutants</b>
None of the ingredients is listed.

· **Proposition 65**

· **Prop 65 - Chemicals known to cause cancer**

The listing for titanium dioxide is as "airborne, unbound particles of respirable size".  
Titanium dioxide of this product is within the product matrix.

13463-67-7	Titanium dioxide
------------	------------------

· <b>Chemicals known to cause reproductive toxicity for females:</b>
None of the ingredients is listed.

· <b>Chemicals known to cause reproductive toxicity for males:</b>
None of the ingredients is listed.

· <b>Chemicals known to cause developmental toxicity:</b>
None of the ingredients is listed.

· **Carcinogenicity categories**

· <b>EPA (Environmental Protection Agency)</b>
None of the ingredients is listed.

· <b>TLV (Threshold Limit Value)</b>		
13463-67-7	Titanium dioxide	A4

· <b>NIOSH-Ca (National Institute for Occupational Safety and Health)</b>	
13463-67-7	Titanium dioxide

· **Chemical safety assessment: A Chemical Safety Assessment has not been carried out.**

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### 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.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

· **Date of preparation / last revision 11/22/2022**

· **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

DOT: US Department of Transportation

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)

NFPA: National Fire Protection Association (USA)

HMS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Irritation 2: Skin corrosion/irritation – Category 2

Eye Damage 1: Serious eye damage/eye irritation – Category 1

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

Sensitization - Skin 1: Skin sensitisation – Category 1

Sensitization - Skin 1A: Skin sensitisation – Category 1A

Sensitization - Skin 1B: Skin sensitisation – Category 1B

Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3

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