



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

Printing date 07/13/2017

Reviewed on 07/13/2017

## 1 Identification

· **Product identifier**

· **Trade name:** dima Print Ortho

· **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.servicehkna@kulzer-dental.com

· **Emergency telephone number:**

Emergency CONTACT (24-Hour-Number)

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

## 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 labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**



GHS07

· **Signal word** Warning

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

Methacrylic oligomer

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

· **Hazard statements**

May cause an allergic skin reaction.

· **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves.

Contaminated work clothing must not be allowed out of the workplace.

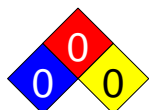
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

IF ON SKIN: Wash with plenty of water.

· **Classification system**

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



Health = 0

Fire = 0

Reactivity = 0

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· **HMIS-Ratings (Scale 0-4)**

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HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Reactivity = 0

· **Results of PBT and vPvB assessment**

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

**3 Composition/information on ingredients**

· **Chemical characterization: Mixtures**

· **Description:** -

· **Dangerous components:**

72896-86-4	Methacrylic oligomer	Skin Sens. 1, H317	10-25%
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	Skin Sens. 1, H317	0-5%

· **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. If symptoms persist, consult a doctor.
- **After swallowing**  
Rinse out mouth and then drink plenty of water.  
If symptoms persist 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 spray. Fight larger fires with water spray.
  - **For safety reasons unsuitable extinguishing agents** Water with full 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 respiratory protective device.  
Wear fully 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:** *Prevent seepage into sewage system, workpits and cellars.*
- **Methods and material for containment and cleaning up:**  
*Absorb with liquid binding material (diatomite, universal binders, for small amounts tissues).*  
*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.*
- 

### 7 Handling and storage

- **Handling**
  - **Precautions for safe handling**  
*Keep receptacles 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 receptacles:**  
*Store in cool, dry place in tightly closed receptacles.*  
*Protect from exposure to the light.*
    - **Information about storage in one common storage facility:**  
*Store away from oxidizing agents.*
    - **Further information about storage conditions:** *None.*
- **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.*
    - **Additional information:** *The lists that were valid during the creation were used as basis.*
- **Exposure controls**
  - **Personal protective equipment**
    - **General protective and hygienic measures**  
*Keep away from foodstuffs, beverages and feed.*  
*Immediately remove all soiled and contaminated clothing*  
*Wash hands before breaks and at the end of work.*  
*Avoid contact with the eyes and skin.*
    - **Breathing equipment:**  
*Use suitable respiratory protective device in case of insufficient ventilation.*  
*Filter P2.*

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· **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:** *Tightly sealed goggles.*

· **Body protection:** *Light weight protective clothing*

**9 Physical and chemical properties**

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:**

*Fluid*

· **Color:**

*Blue*

· **Odor:**

*Ester-like*

· **Odor threshold:**

*Not determined.*

· **pH-value:**

*Not determined.*

· **Change in condition**

· **Melting point/Melting range:**

*undetermined*

· **Boiling point/Boiling range:**

*>200 °C (>392 °F)*

· **Flash point:**

*Not applicable*

· **Flammability (solid, gaseous)**

*Not applicable.*

· **Ignition temperature:**

*375 °C (707 °F)*

· **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:**

*Not determined*

· **Relative density at 20 °C (68 °F)**

*1.1 - 1.2 g/cm<sup>3</sup>*

· **Vapor density**

*Not determined.*

· **Evaporation rate**

*Not determined.*

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- **Solubility in / Miscibility with**
  - **Water:** Not miscible or difficult to mix
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
  - **dynamic at 20 °C (68 °F):** 1.1 mPas
  - **kinematic:** Not determined.
- **Other information** No further relevant information available.

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Possibility of hazardous reactions** No dangerous reactions known
- **Conditions to avoid** Heat, flames and sparks.
- **Incompatible materials:**
  - Radical initiator
  - Strong oxidizers
- **Hazardous decomposition products:** none
- **Additional information:**  
Product might polymerize after considerable exceeding of recommended storage time or temperature.

### 11 Toxicological information

- **Information on toxicological effects**
  - **Acute toxicity:**
    - **LD/LC50 values that are relevant for classification:**  
**162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide**  
Oral LD50 > 2000 mg/kg (rat)
  - **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
  - **Carcinogenic categories**
    - **IARC (International Agency for Research on Cancer)**  
None of the ingredients is listed.
    - **NTP (National Toxicology Program)**  
None of the ingredients is listed.
    - **OSHA-Ca (Occupational Safety & Health Administration)**  
None of the ingredients is listed.

### 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)

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- **Persistence and degradability** No further relevant information available.
- **Behavior 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**  
Small quantities can be polymerized by light and the cured solid material can be disposed of with the regular garbage. Larger quantities must be disposed of following the regulations of the local authorities.
- **Uncleaned packagings:**
  - **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- |  |                 |
|--|-----------------|
| · <b>UN-Number</b><br>· DOT, ADR, ADN, IMDG, IATA                                | Void            |
| · <b>UN proper shipping name</b><br>· DOT, ADR, ADN, IMDG, IATA                  | Void            |
| · <b>Transport hazard class(es)</b><br>· DOT, ADR, ADN, IMDG, IATA<br>· Class    | Void            |
| · <b>Packing group</b><br>· DOT, ADR, IMDG, IATA                                 | Void            |
| · <b>Environmental hazards:</b>  | Not applicable. |
| · <b>Special precautions for user</b>  | Not applicable. |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable. |
| · <b>Transport/Additional information:</b>                                       | -               |
| · <b>UN "Model Regulation":</b>  | Void            |

### 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
  - **SARA Section 355 (extremely hazardous substances)**  
None of the ingredients is listed.
  - **TSCA (Toxic Substances Control Act)** None of the ingredients is listed.

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· **Carcinogenity categories**

· **TLV (Threshold Limit Value established by ACGIH)**

None of the ingredients is listed.

· **GHS label elements**

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

· **Hazard pictograms**



GHS07

· **Signal word** Warning

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

Methacrylic oligomer

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

· **Hazard statements**

May cause an allergic skin reaction.

· **Precautionary statements**

Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves.

Contaminated work clothing must not be allowed out of the workplace.

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.

IF ON SKIN: Wash with plenty of water.

· **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**

H317 May cause an allergic skin reaction.

· **Date of preparation / last revision** 07/13/2017 / -

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport 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

ACGIH: American Conference of Governmental Industrial Hygienists

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

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Skin Sens. 1: Skin sensitisation – Category 1

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