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# 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 Cast

- · 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 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 labeled according to the Globally Harmonized System (GHS). • Hazard pictograms



· Signal word Warning

- Hazard-determining components of labeling: Methacrylic oligomer
   2-hydroxyethyl methacrylate phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
   Hazard statements Causes skin irritation.
- Causes serious eye irritation. May cause an allergic means reaction.
- Precautionary statements
   Avoid breathing dust/fume/gas/mist/vapors/spray
   Wear protective gloves/protective clothing/eye protection/face protection.
   Avoid release to the environment.
   Wash thoroughly after handling.
   If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
   IF ON SKIN: Wash with plenty of water.

(Contd. on page 2)



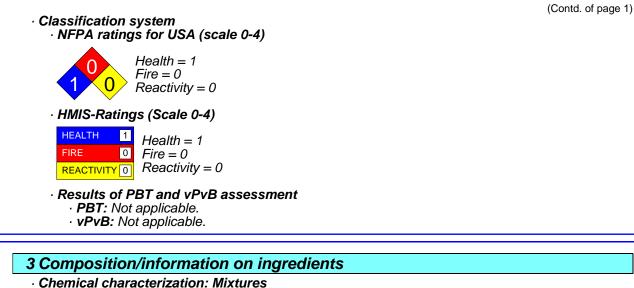
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Descri	ption	: -	

20001100		
· Dangerous components:		
72896-86-4	Methacrylic oligomer	50-75%
	Skin Sens. 1, H317	
868-77-9	2-hydroxyethyl methacrylate Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	10-25%
	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; Skin Sens. 1, H317	
162881-26-7	phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	0-5%
	Skin Sens. 1, H317	
· Additiona	al information For the wording of the listed hazard phrases refer to section 16	<u>).</u>

## 4 First-aid measures

#### · Description of first aid measures

• After inhalation Supply fresh air; consult doctor in case of complaints.

- After skin contact
- Immediately 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 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.
    - (Contd. on page 3)

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## 5 Fire-fighting measures

#### · Extinguishing media

Suitable extinguishing agents

CO2, extinguishing powder or water spray. Fight larger fires with water spray. Use fire fighting measures that suit the environment.

- 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 -

#### 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 any water course.
- 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.

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#### 8 Exposure controls/personal protection Control parameters Components with limit values that require monitoring at the workplace: The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits. 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: 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 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:	Red	
· Odor:	Ester-like	
· Odor threshold:	Not determined.	
· pH-value:	Not determined.	
<ul> <li>Change in condition</li> <li>Melting point/Melting range:</li> <li>Boiling point/Boiling range:</li> </ul>	undetermined > 200 °C (> 392 °F)	
· Flash point:	Not applicable	
		(Contd. on page



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<ul> <li>Flammability (solid, gaseous)</li> </ul>	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: • Upper:	Not determined. Not determined.
· Vapor pressure:	Not determined.
<ul> <li>Density:         <ul> <li>Relative density at 20 °C (68 °F)</li> <li>Vapor density</li> <li>Evaporation rate</li> </ul> </li> </ul>	Not determined 1.1 - 1.2 Not determined. Not determined.
• Solubility in / Miscibility with • Water:	Not miscible or difficult to mix
· Partition coefficient (n-octanol/wate	er): Not determined.
<ul> <li>Viscosity:</li> <li>dynamic at 20 °C (68 °F):</li> <li>kinematic:</li> <li>Other information</li> </ul>	1.0 -1.4 Pas Not determined. 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.

<ul> <li>Information on toxicological effects</li> <li>Acute toxicity:</li> </ul>	
<ul> <li>LD/LC50 values that are relevant for classification:</li> </ul>	
868-77-9 2-hydroxyethyl methacrylate	
Oral LD50 5564 mg/kg (rat)	
Dermal LD50 >3000 mg/kg (can)	
162881-26-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide	
Oral LD50 > 2000 mg/kg (rat)	
Primary irritant effect:	
• <b>on the skin:</b> Irritant to skin and mucous membranes.	(Contd. on page 6



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on the eye: Irritating effect.
 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 Ecologia	al information
	c toxicity:
868-77-9 2	-hydroxyethyl methacrylate
LC50/96h	227 mg/l (fish)
	-7 phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
	> 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)
Davalatava	

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

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 · DOT, ADR, ADN, IMDG, IATA · UN proper shipping name · DOT, ADR, ADN, IMDG, IATA Void (Contd. on page 7) UNA



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

· Cancerogenity 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



· Signal word Warning

- Hazard-determining components of labeling: Methacrylic oligomer
   2-hydroxyethyl methacrylate phenyl bis(2,4,6-trimethylbenzoyl)-phosphine oxide
   Hazard statements Causes skin irritation.
- Causes serious eye irritation. May cause an allergic skin reaction.
- Precautionary statements
- Avoid breathing dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

Avoid release to the environment Wash thoroughly after handling.

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

IF ON SKIN: Wash with plenty of water.

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(Contd. of page 7) • Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

These data are based on our present knowledge. However, they shall not constitute a guarantee
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.
• 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 a
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)
HMIS: 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 Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
Skin Sens. 1: Skin sensitisation – Category 1
* Data compared to the previous version altered.