-leraeus Kulzer Mitsui Chemicals Group

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Safety Data Sheet acc. to OSHA HCS

Printing date 02/01/2017

Reviewed on 02/01/2017

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: Heraeus Kulzer GmbH Tel.: 0800 4372522 Grüner Weg 11, D-63450 Hanau · 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 aloves. 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 = 0Fire = 0Reactivity = 0

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· HMIS-Ratings (Scale 0-4)

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· Results of PBT and vPvB assessment

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

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: -

1

 Dangerou 	is components:		
	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%
· Additiona	I information For the wording of the listed hazard phrase	es 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
- CO2, 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.

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· 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: 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
 - · 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

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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. · 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 undetermined

 Melting point/Melting range: Boiling point/Boiling range: 	undetermined >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.
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		(Contd. of page
· Upper:	Not determined.	
· Vapor pressure:	Not determined.	
 Density: Relative density at 20 °C (68 °F) Vapor density Evaporation rate 	Not determined 1.1 - 1.2 g/cm3 Not determined. Not determined.	
 Solubility in / Miscibility with Water: 	Not miscible or difficult to mix	
· Partition coefficient (n-octanol/wate	er): Not determined.	
 Viscosity: dynamic at 20 °C (68 °F): kinematic: Other information 	1.1 mPas 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.

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.

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· Toxicity		
Aquatic toxicity:		
162881-26-7 phenyl bis(2,4,6-trimeth		
EC50/72h > 0.26 mg/l (algae) (OECD 2		
EC50/48h > 1.175 mg/l (daphnia) (OE		
LC50/96h >0.09 mg/l (fish) (OESO 203 • Persistence and degradability No fur	,	
 Behavior in environmental systems: Bioaccumulative potential No furth Mobility in soil No further relevant Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further relevant 	er relevant information available. nformation available. t	
3 Disposal considerations		
regular garbage. Larger quantitie authorities. • Uncleaned packagings:	by light and the cured solid material can be dis s must be disposed of following the regulati e made according to official regulations	
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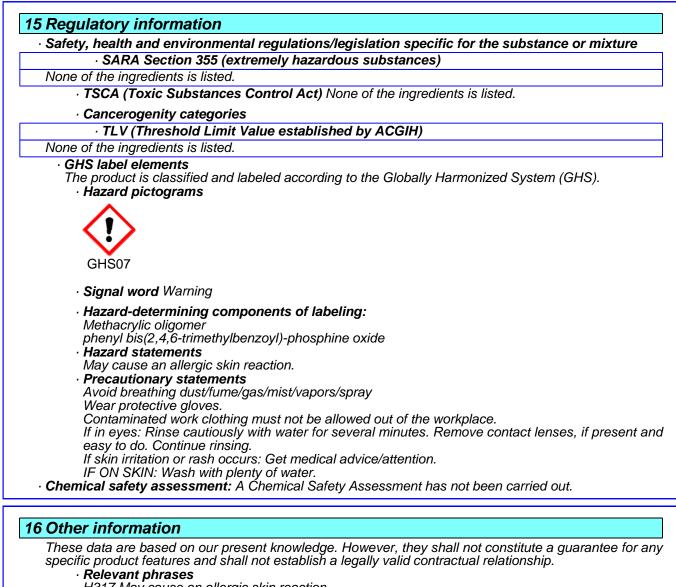
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· UN "Model Regulation":

Void



- H317 May cause an allergic skin reaction.
- · Date of preparation / last revision 02/01/2017 / -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

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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 Sens. 1: Skin sensitisation – Category 1