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

Printing date 07/11/2022

Reviewed on 07/11/2022

Tel.: +49 (0)800 4372522

#### 1 Identification

- · Product identifier
  - · Trade name: PalaXpress powder

- · 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)

· 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)

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

### 2 Hazard(s) identification

· Classification of the substance or mixture

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



GHS07

- · Signal word Warning
- · Hazard-determining components of labeling:

methyl methacrylate dibenzoyl peroxide

· Hazard statements

May cause an allergic skin reaction.

· Precautionary statements Avoid release to the environment.

· Classification system

NFPA ratings for USA (scale 0-4)



Health = 1Fire = 1Reactivity = 0

· HMIS-Ratings (Scale 0-4)



Health = 0 Fire = 1 Reactivity = 0

· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

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· vPvB: Not applicable.

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## 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
  - Description: Product based on methacrylate copolymerisates

	us components:	
72846-00-5	1-benzyl-5-phenylbarbituric acid	<i>≥</i> 0- <i>≤</i> 5%
	Acute Toxicity - Oral 4, H302; Eye Irritation 2A, H319	
80-62-6	methyl methacrylate Flammable Liquids 2, H225 Skin Irrititation 2, H315; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	≥0.1-<1%
94-36-0	dibenzoyl peroxide Self-reactive substances and mixtures - Type B, H241; Organic Peroxides - Type B, H241 Eye Irritation 2A, H319; Sensitization - Skin 1, H317	≥0.1-<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 No special measures required.
  - · After inhalation Supply fresh air; consult doctor in case of complaints.
  - After skin contact immediately wash with water and soap and rinse thoroughly.
  - · After eye contact Rinse opened eye for several minutes under running water.
  - · 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 or alcohol resistant foam.
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
  - · Protective equipment: No special measures required.
- · Additional information -

### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Avoid contact with eyes and skin.
- Environmental precautions: Prevent seepage into sewage system, workpits and cellars.

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- · Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections

No dangerous substances are released.

See Section 8 for information on personal protection equipment.

## 7 Handling and storage

- · Handling
  - · Precautions for safe handling No special measures required.
  - Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
  - Storage
    - Requirements to be met by storerooms and receptacles: No special requirements.
    - Information about storage in one common storage facility: Not required.
  - Further information about storage conditions: Keep cool, if possible (not above 25 °C).
- · Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
  - Components with limit values that require monitoring at the workplace:

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

### 80-62-6 methyl methacrylate

PEL Long-term value: 410 mg/m³, 100 ppm REL Long-term value: 410 mg/m<sup>3</sup>, 100 ppm

TLV Short-term value: 100 ppm Long-term value: 50 ppm

DSĚN, A4

#### 94-36-0 dibenzoyl peroxide

PEL Long-term value: 5 mg/m3 REL Long-term value: 5 mg/m<sup>3</sup> TLV Long-term value: 5 mg/m<sup>3</sup>

A4

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

- · Exposure controls
  - Personal protective equipment
    - General protective and hygienic measures

The usual precautionary measures for handling chemicals should be followed.

- · Breathing equipment: Not necessary if room is well-ventilated.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Check protective gloves prior to each use for their proper condition.

recommended

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· 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: Safety glasses

· Body protection: Light weight protective clothing

## 9 Physical and chemical properties

Information on basic physical and ch General Information	emical properties
· Appearance: · Form: · Color: · Odor: · Odor threshold:	Powder According to product specification Odorless Not determined.
· pH-value:	Not applicable.
· Change in condition · Melting point/Melting range: · Boiling point/Boiling range:	undetermined undetermined
· Flash point:	Not applicable
· Flammability (solid, gaseous)	Not determined.
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive powder/air mixture mis possible.
· Explosion limits: · Lower: · Upper:	Not determined. Not determined.
· Vapor pressure:	Not applicable.
Density: Relative density Vapor density Evaporation rate	Not determined Not determined. Not applicable. Not applicable.
Solubility in / Miscibility with Water:	Insoluble
· Partition coefficient (n-octanol/wat	ter): Not determined.
· Viscosity: · dynamic:	Not applicable.

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## Trade name: PalaXpress powder

(Contd. of page 4) · kinematic: Not applicable. · Solvent content: · Solids content: 100.0 % No further relevant information available. · Other information

## 10 Stability and reactivity

- Reactivity No further relevant information available.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: none

## 11 Toxicological information

- Information on toxicological effects
  - Acute toxicity:

	riodic toxiony.					
· <u>I</u>	LD/LC50 valu	es that are relevant for classification:				
72846-00-5 1-benzyl-5-phenylbarbituric acid						
Oral	LD50	500 mg/kg (ATE)				
		500 mg/kg (rat) (OECD 423)				
80-62-0	6 methyl met	hacrylate				
Oral	LD50	~7,900 mg/kg (rat)				
Derma	I LD50	>5,000 mg/kg (guinea pig) (OECD 402)				
Inhalat	ive LC50/4 h	29.8 mg/l (rat)				
94-36-0	94-36-0 dibenzoyl peroxide					
Oral	LD0	>2,000 mg/kg (mouse) (OECD 401)				
Inhalat	ive LC0/4h	24.3 ppm (rat) (OECD 403)				

- · Primary irritant effect:
  - · on the skin: No irritant effect.
- on the eye: No irritating effect.
   Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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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· Reproductive toxicity Based on available data, the classification criteria are not met.

#### 12 Ecological information · Toxicity · Aquatic toxicity: 72846-00-5 1-benzyl-5-phenylbarbituric acid >50 mg/l (daphnia) (OECD 202) ErC50 / 72 h | >50 mg/l (algae) (OECD 201) 80-62-6 methyl methacrylate 49 mg/L (daphnia) (OECD 211) EC50/21d 69 mg/l (daphnia) (EPA OTS 797.1300) EC50/48h NOEC / 21d | 37 mg/l (daphnia) (OECD 211) ErC50 / 72 h >110 mg/l (algae) (OECD 201) NOEC / 72h | 110 mg/l (algae) (OECD 201) NOEC / 48h | 48 mg/l (daphnia) (EPA OTS 797.1300) EbC50 / 72h | >110 mg/l (algae) (OECD 201) NOEC/ 35d | 9.4 mg/L (fish) (OECD 210) LC50/ 35d 33.7 mg/L (fish) (OECD 210) 94-36-0 dibenzoyl peroxide EC50/72h 0.042 mg/l (algae) (OECD 201) EC50/48h 0.11 mg/l (daphnia) (OECD 202) LC50/96h 0.06 mg/l (fish) (OECD 203) ErC50 / 72 h | 0.071 mg/l (algae) (OECD 201) NOEC / 72h | 0.02 mg/l (algae) (OECD 201) NOEC / 96h | 0.032 mg/l (fish) (OECD 203) NOEC / 48h | 0.076 mg/l (daphnia) (OECD 202) ErC10 0.001 mg/L /21d (daphnia) (OECD 211) Persistence and degradability 72846-00-5 1-benzyl-5-phenylbarbituric acid biodegradability 29.1 % /29d (not defined) (OECD 301D) 80-62-6 methyl methacrylate biodegradability 94 % /14d (not defined) (OECD 301C) 94-36-0 dibenzoyl peroxide biodegradability 71 % /28d (not defined) (OECD 301D)

- · Behavior in environmental systems:
  - · Bioaccumulative potential No further relevant information available.
  - · Mobility in soil No further relevant information available.
- · Additional ecological information:
  - General notes:

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment
  - · PBT: Not applicable.
  - · vPvB: Not applicable.

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· Other adverse effects No further relevant information available.

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## 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.

UN-Number	
DOT	Void
· ADR, IMDG, IATA	UN3077
UN proper shipping name	V-14
· DOT · ADR	Void 3077 ENVIRONMENTALLY HAZARDOU
ADN	SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide
· IMDG	ENVIRONMENTALLY HAZARDOU
	SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide
· IATA	MARINE POLLUTANT ENVIRONMENTALLY HAZARDOU
	SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide
Transport hazard class(es)	
·DOT	
· Class	Void
· ADR	
· Class	9 (M7) Miscellaneous dangerous substance
· Label	and articles
<del></del>	9
· IMDG, IATA	
· Class	9 Miscellaneous dangerous substances ar articles



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· Packing group

· DOŤ Void · ADR, IMDG, IATA III

· Environmental hazards:

Marine pollutant: No

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

· Special precautions for user Warning: Miscellaneous dangerous substances and

· Hazard identification number (Kemler

code): EMS Number: F-A,S-F

· Stowage Category

· Stowage Code SW23 When transported in BK3 bulk container,

see 7.6.2.12 and 7.7.3.9.

· 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 g

Maximum net quantity per outer packaging:

1000 g

· IMDG

Limited quantities (LQ) 5 kg Excepted quantities (ÉQ) Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging:

UN "Model Regulation": UN 3077 ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE), 9, III

#### 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

· SARA Section 313 (specific toxic chemical listings)

None of the ingredients is listed.

· Proposition 65

Prop 65 - Chemicals known to cause cancer

None of the ingredients is listed.

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· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· 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

H225 Highly flammable liquid and vapor.

H241 Heating may cause a fire or explosion.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

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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)

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 NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flammable Liquids 2: Flammable liquids – Category 2
Self-reactive substances and mixtures - Type B: Self-reactive substances and mixtures – Type B
Organic Peroxides - Type B: Organic peroxides – Type B
Acute Toxicity - Oral 4: Acute toxicity – Category 4
Skin Irritiation 2: Skin corrosion/irritation – Category 2
Exp. Irritation 2: A: Springer and Appendix irritation — Category 2

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

Sensitization - Skin 1: Skin sensitisation - Category 1 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) - Category 3

\* Data compared to the previous version altered.