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

Printing date 07/07/2022

Reviewed on 07/04/2022

Tel.: +49 (0)800 4372522

#### 1 Identification

- · Product identifier
  - · Trade name: Paladon 65 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.

Wear protective gloves / eye protection.

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

- · Classification system
  - · NFPA ratings for USA (scale 0-4)



Health = 1 Fire = 1Reactivity = 0

· HMIS-Ratings (Scale 0-4)



Health = 0Fire = 1

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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: Product based on methacrylate copolymerisates

· Dangerous components:		
80-62-6	methyl methacrylate	<i>≥</i> 1- <i>≤</i> 5%
	Flammable Liquids 2, H225 Skin Irrititation 2, H315; Sensitization - Skin 1, H317; Specific Target Organ Toxicity - Single Exposure 3, H335	
94-36-0	dibenzoyl peroxide	≥0.1-<1%
	Self-reactive substances and mixtures - Type B, H241; Organic Peroxides - Type B, H241	
	Eye Irritation 2A, H319; Sensitization - Skin 1, H317	

#### 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.

If skin irritation continues, consult a doctor.

- 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	ng at t	ne workpiace:
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#### 80-62-6 methyl methacrylate

PEL Long-term value: 410 mg/m³, 100 ppm REL Long-term value: 410 mg/m³, 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/m³
TLV Long-term value: 5 mg/m³

Α4

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

#### · Exposure controls

Personal protective equipment

General protective and hygienic measures
Wash hands before breaks and at the end of work.

· 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.

· 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

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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

Information on basic physical and che	emical properties
· General Information	
· Appearance:	
Form:	Powder
· Color:	Colorless Pink
· Odor:	Odorless
· Odor threshold:	Not determined.
· pH-value:	Mixture is non-soluble (in water).
· Change in condition	
· Melting point/Melting range:	undetermined
Boiling point/Boiling range:	undetermined
· Flash point:	Not applicable
· Flammability (solid, gaseous)	Not determined.
· Ignition temperature:	400.0 °C (752 °F)
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:	Not determined.
· Upper:	Not determined.
· Vapor pressure:	Not applicable.
· Density at 20 °C (68 °F):	0 g/cm³
Relative density	Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with Water:	Insoluble
· Partition coefficient (n-octanol/wate	er): Not determined.
Viscosity:	
· dynamic:	Not applicable.
· kinematic:	Not applicable.

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· Solvent content:

· Solids content: 100.0 %

· 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 No further relevant information available.
- · Incompatible materials: No further relevant information available.
- Hazardous decomposition products: none
- Additional information: -

#### 11 Toxicological information

- · Information on toxicological effects
  - · Acute toxicity:

Acute	toxicity.		
· LD/LC50 values that are relevant for classification:			
80-62-6 methyl methacrylate			
Oral	LD50	~7,900 mg/kg (rat)	
Dermal	LD50	>5,000 mg/kg (guinea pig) (OECD 402)	
Inhalative	LC50/4 h	29.8 mg/l (rat)	
94-36-0 di	94-36-0 dibenzoyl peroxide		
Oral	LD0	>2,000 mg/kg (mouse) (OECD 401)	
Inhalative	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 Agenc	v for Research on Cancer)
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94-36-0 dibenzoyl peroxide

3

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

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

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#### 12 Ecological information

#### · Toxicity

ErC10

· Aquatic to	· Aquatic toxicity:		
80-62-6 meth	80-62-6 methyl methacrylate		
EC50/21d	49 mg/L (daphnia) (OECD 211)		
EC50/48h	69 mg/l (daphnia) (EPA OTS 797.1300)		
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 dibe	nzoyl 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)		

#### · Persistence and degradability

#### 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:

NOEC / 96h | 0.032 mg/l (fish) (OECD 203) NOEC / 48h | 0.076 mg/l (daphnia) (OECD 202)

- Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.

0.001 mg/L /21d (daphnia) (OECD 211)

- · 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.
- · 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.

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· Uncleaned packagings:
· Recommendation:
Disposal must be made according to official regulations.
Non contaminated packagings can be used for recycling.

UN-Number · DOT · ADR, IMDG, IATA	Void UN3077
UN proper shipping name	
· DOT	Void
· ADR	3077 ENVIRONMENTALLY HAZARDOU
· IMDG	SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide, E N V I R O N M E N T A L L Y H A Z A R D O U SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide MARINE POLLUTANT
·IATA	ENVIRONMENTALLY HAZARDOU SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide,
Transport hazard class(es)	
DOT	
· Class	Void
· ADR	
<b>1 1 1 1 1 1 1 1 1 1</b>	
· Class	9 (M7) Miscellaneous dangerous substance and articles
· Label	<u> </u>
· IMDG, IATA	
Class	9 Miscellaneous dangerous substances ar articles 9
· Label	9
Packing group	Void
· DOT · ADR, IMDG, IATA	Vola III
Environmental hazards:	
· Marine pollutant:	No
	Symbol (fish and tree)
Special marking (ADR): Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
· Special marking (IA I A):	Sympol (fish and free)



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· Special precautions for user

Warning: Miscellaneous dangerous substances and

· Hazard identification number (Kemler

· EMS Number: F-A,S-F

· Stowage Category

· Stowage Code SW23 When transported in BK3 bulk container,

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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:

· Excepted quantities (EQ) Code: E1

Maximum net quantity per inner packaging: 30 g

Maximum net quantity per outer packaging:

·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 3077 ENVIRONMENTALLY HAZARDOUS UN "Model Regulation":

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)

94-36-0 dibenzoyl peroxide

· Proposition 65

Prop 65 - Chemicals known to cause cancer

None of the ingredients is listed.

· 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.

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#### Trade name: Paladon 65 powder

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· Cancerogenity categories

EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value)

94-36-0 dibenzoyl peroxide

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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.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

Date of preparation / last revision 07/07/2022 / 3

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 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: 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
Skin Irrititation 2: Skin corrosion/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.