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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 07.07.2022

Version number 4 (replaces version 3)

Revision: 04.07.2022

1.1 Product id	ntifier	
· Trade nam	<u>: Paladon 65 powder</u>	
	entified uses of the substance or mi ant information available.	ixture and uses advised against
 Application 	of the substance / the mixture Manu	facture of dental prothesis
 Manufactur Kulzer Gmb 		Tel.: +49 (0)800 43725
	epartment: E-Mail: msds@kulzer-dent telephone number: Emergency CON	tal.com ITACT (24-Hour-Number): +49 (0)6132-8446
SECTION 2	Hazards identification	
	on of the substance or mixture	4070/0000
	on according to Regulation (EC) No	
Skin Sens.	H317 May cause an alle Anic 2 H411 (M=10) Toxic to aquatic lif	-
Hazard J GHS07	ictograms GHS09	
· Sianal v	ord Warning	
Hazard- methyl n dibenzoy Hazard s H317 Ma H411 To Precaut P273 P280 P302+P3 2.3 Other haza Results of PBT: No	letermining components of labelling ethacrylate peroxide tatements y cause an allergic skin reaction. kic to aquatic life with long lasting effect onary statements Avoid release to the environment. Wear protective gloves / eye protect 52 IF ON SKIN: Wash with plenty of sco	ts. tion.

· 3.2 Mixtures

· Description: Product based on methacrylate copolymers

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	(C	contd. of page 1)
[.] Dangerous com	ponents:	
CAS: 80-62-6	methyl methacrylate	<i>≥</i> 1- <i>≤</i> 5%
EINECS: 201-297-1	Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 94-36-0	dibenzoyl peroxide	≥0.25-<1%
EINECS: 202-327-6	Self-react. B, H241; Org. Perox. B, H241 Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=10) Eye Irrit. 2, H319; Skin Sens. 1, H317	
	•	

SECTION 4: First aid measures

· 4.1 Description of first aid measures

- General information No special measures required.
- After inhalation Supply fresh air; consult doctor in case of symptoms.
- After skin contact
- Instantly wash with water and soap and rinse thoroughly.
- If skin irritation continues, consult a doctor.
- · After eve contact Rinse opened eve for several minutes under running water.
- · After swallowing

Rinse out mouth and then drink plenty of water.

In case of persistent symptoms consult doctor.

- 4.2 Most important symptoms and effects, both acute and delayed
- No further relevant information available.
- · 4.3 Indication of any immediate medical attention and special treatment needed
- No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
 - Suitable extinguishing agents

CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. 5.2 Special hazards arising from the substance or mixture

- No further relevant information available.
- 5.3 Advice for firefighters
 - Protective equipment: No special measures required.
 - · Additional information -

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Avoid contact with eyes and skin.
- 6.2 Environmental precautions: Prevent material from reaching sewage system, holes and cellars.
- . 6.3 Methods and material for containment and cleaning up: Collect mechanically.
- · 6.4 Reference to other sections
- No dangerous materials are released.

See Section 8 for information on personal protection equipment.



· 7.1 Precautions for safe handling No special measures required.

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(Contd. of page 2) • Information about protection against explosions and fires: No special measures required.

- · 7.2 Conditions for safe storage, including any incompatibilities Storage
 - Requirements to be met by storerooms and containers: No special requirements. Information about storage in one common storage facility: Not required. Further information about storage conditions: Store cool (not above 25 °C).

• 7.3 Specific end use(s) No further relevant information available.

Components with critical values that require monitoring at the workplace: 80-62-6 m=thyl methacry/ate OEL (Ireland) Short-term value: 100 ppm Long-term value: 50 ppm IOELV (European Union) Short-term value: 100 ppm Long-term value: 50 ppm 94-36-0 dibenzoyl peroxide Long-term value: 50 ppm OEL (Ireland) Long-term value: 5 mg/m³ 94-36-0 dibenzoyl peroxide Long-term value: 5 mg/m³ OEL (Ireland) Long-term value: 5 mg/m³ 94-36-0 dibenzoyl peroxide Sens Oral general population, long term, systemic general population, long term, systemic general population, long term, systemic worker industrial, long term, systemic general population, acute, local 8.2 mg/Kg/d (not defined) Worker industrial, long term, systemic general population, acute, local 208 mg/m3 (not defined) Worker industrial, long term, systemic general population, long term, systemic 208 mg/m3 (not defined) 94-36-0 diberzoyl peroxide 208 mg/m3 (not defined) Oral general population, long term, systemic general population, long term, systemic 13.3 mg/Kg/d (not defined) 94-36-0 diberzoyl peroxide 208 mg/m3 (not defined) 39 mg/m3 (not defined) 0ral general population, long term, systemic general population, long term, systemic 33 mg/m3 (not defined)			
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sewage treatment plant 10 mg/l (not defined)			
sediment, dry weight, freshwater 10.2 mg/Kg (not defined)			
sediment, dry weight, marine water 0.102 mg/Kg (not defined)			
soil, dry weight 1.48 mg/Kg (not defined)			
94-36-0 dibenzoyl peroxide			



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	002 mg/l (not defined)	
sewage treatment plant 0.35 n	mg/l (not defined)	
sediment, dry weight, freshwater 0.013	mg/Kg (not defined)	
sediment, dry weight, marine water 0.001	ma/Ka (not defined)	
	mg/Kg (not defined)	
	hat were valid during the compilation were used as basis.	
8.2 Exposure controls		
· Appropriate engineering controls No	o further data; see item 7.	
· Individual protection measures, such	h as personal protective equipment	
General protective and hygienic r	measures	
Wash hands during breaks and at th		
Breathing equipment: Not necess	ary if room is well-ventilated.	
Hand protection	ware able and we sister to the average of the substance (the	
	ermeable and resistant to the product/ the substance/ th	
preparation. Selection of the glove material on c	onsideration of the penetration times, rates of diffusion an	
the degradation		
Check protective gloves prior to eac	ch use for their proper condition.	
· Material of gloves		
The selection of the suitable g	loves does not only depend on the material, but also o	
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 th		
	nerefore to be checked prior to the application.	
 Penetration time of glove mate 	erial	
 Penetration time of glove mate The exact break trough time has 	erial	
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Trade name: Paladon 65 powder

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• Decomposition temperature: • SADT	Not determined.
· pH	Mixture is non-soluble (in water).
· Viscosity:	
Kinematic viscosity	Not applicable.
· dynamic:	Not applicable.
· Solubility	
· Water:	Insoluble
· Partition coefficient n-octanol/water (log	
value)	Not determined.
· Steam pressure:	Not applicable.
· Density and/or relative density	
· Density at 20 °C	0 g/cm³
· Relative density	Not determined.
Vapour density Particle characteristics	Not applicable. See item 3.
• 9.2 Other information No	further relevant information available.
· Appearance:	
Form:	Powder
· Important information on protection of	
health and environment, and on safety.	
Self-inflammability:	Product is not selfigniting.
• Explosive properties:	Product is not explosive. However, formation of
	explosive powder/air mixtures is possible.
· Solvent content:	
Solids content:	100.0 %
· Change in condition	
· Evaporation rate	Not applicable.
 Information with regard to physical hazard classes 	
· Explosives	Void
· Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
· Flammable liquids	Void
· Flammable solids	Void
Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
⁻ Substances and mixtures, which emit	1010
flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
Organic peroxides	Void
· Corrosive to metals	Void
	Void
 Desensitised explosives 	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

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Trade name: Paladon 65 powder

• 10.2 Chemical stability Conditions to be avoided: No decomposition if used and stored according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known 10.4 Conditions to avoid No further relevant information available.
- 10.4 Conditions to avoid No number relevant information available.
 10.5 Incompatible materials: No further relevant information available.
 10.6 Hazardous decomposition products: None
 Additional information: -

	Based on available data, the classification criteria are not met.	
	lues that are relevant for classification:	
0-62-6 methyl me	ethacrylate	
Dral LD50	~7,900 mg/kg (rat)	
Dermal LD50	>5,000 mg/kg (guinea pig) (OECD 402)	
nhalative LC50/4	h 29.8 mg/l (rat)	
4-36-0 dibenzoyl	peroxide	
Dral LD0	>2,000 mg/kg (mouse) (OECD 401)	
Inhalative LC0/4h 24.3 ppm (rat) (OECD 403)		
Serious eye da Respiratory or May cause an a Germ cell muta Carcinogenicit Reproductive t STOT-single ex STOT-repeated Aspiration haz	Virritation Based on available data, the classification criteria are not met. mage/irritation Based on available data, the classification criteria are not met skin sensitisation ellergic skin reaction. agenicity Based on available data, the classification criteria are not met. by Based on available data, the classification criteria are not met. coxicity Based on available data, the classification criteria are not met. coxicity Based on available data, the classification criteria are not met. coxicity Based on available data, the classification criteria are not met. coxicity Based on available data, the classification criteria are not met. coxicity Based on available data, the classification criteria are not met. are based on available data, the classification criteria are not met. ard Based on available data, the classification criteria are not met. ard Based on available data, the classification criteria are not met. bon other hazards	

12.1 Toxicity	y	
· Aquatic t	oxicity:	
80-62-6 met	hyl 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)	



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	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	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)		
· 12.2 Persiste	ence and degradability		
80-62-6 metl	nyl methacrylate		
Biodegradatio	on 94 % /14d (not defined) (OECD 301C)		
	nzoyl peroxide		
•	on 71 % /28d (not defined) (OECD 301D)		
12.4 Mobility 12.5 Results PBT: Not vPvB: No 12.6 Endocri For informatio 12.7 Other a Additiona Gener	Imulative potential No further relevant information available. In soil No further relevant information available. of PBT and vPvB assessment applicable. It applicable. ine disrupting properties on on endocrine disrupting properties see section 11. dverse effects al ecological information: al notes: allow undiluted product or large quantities of it to reach ground water, water bodies of		
SECTION	e system. 13: Disposal considerations reatment methods endation		

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.

· European waste catalogue

18 01 06* chemicals consisting of or containing hazardous substances

Uncleaned packagings:

Recommendation:

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

SECTION 14: Transport information

· 14.1 UN number or ID number · ADR, IMDG, IATA

UN3077

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IF



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(Contd. of page 7) · 14.2 UN proper shipping name · ADR 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl ·IMDG peroxide), MARINE POLLUTANT ENVIRONMENTALLY HAZARDOUS ·IATA SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide) · 14.3 Transport hazard class(es) · ADR 9 (M7) Miscellaneous dangerous substances · Class and articles. · Label 9 · IMDG, IATA · Class 9 Miscellaneous dangerous substances and articles. · Label g • 14.4 Packing group ADR, IMDG, IATA Ш · 14.5 Environmental hazards: Marine pollutant: No Symbol (fish and tree) · Special marking (ADR): Symbol (fish and tree) · Special marking (IATÁ): Symbol (fish and tree) · 14.6 Special precautions for user Warning: Miscellaneous dangerous substances and articles. · Kemler Number: 90 F-A,S-F · EMS Number: · Stowage Category Α · Stowage Code SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9. · 14.7 Maritime transport in bulk according to Not applicable. IMO instruments · Transport/Additional information: · ADR Limited quantities (LQ) 5 kg Excepted quantities (ÉQ) Code: E1 Maximum net quantity per inner packaging: (Contd. on page 9) IE



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· · Transport category · Tunnel restriction code	30 g Maximum net quantity per outer packaging: 1000 g 3 (-)
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE), 9, III

SECTION 15: Regulatory information

· 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

· Directive 2012/18/EU

Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in

electrical and electronic equipment – Annex II

None of the ingredients is listed.

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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 vapour.

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.

H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

Date of previous version: 22.02.2021

• Version number of previous version: 3

Abbreviations and acronyms:

SADT: Self Accelerating Decomposition Temperature 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

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

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DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent DD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids – Category 2 Self-react. B: Self-reactive substances and mixtures – Type B Org. Perox. B: Organic peroxides – Type B Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 * *** Data compared to the previous version altered.**