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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

SECTION 1: Identification of the substance/mixture and of the company undertaking

- · 1.1 Product identifier
 - · Trade name: Paladon 65 powder
- · 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
 - · Application of the substance / the mixture Manufacture of dental prothesis
- · 1.3 Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany)

Tel.: +49 (0)800 4372522

- · Informing department: E-Mail: msds@kulzer-dental.com
- · 1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
 - Classification according to Regulation (EC) No 1272/2008

May cause an allergic skin reaction.

Aquatic Chronic 2 H411 (M=10) Toxic to aquatic life with long lasting effects.

- - Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the GB CLP regulation.

Hazard pictograms





GHS09 GHS07

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

methyl methacrylate

dibenzoyl peroxide

· Hazard statements

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment. P280 Wear protective gloves / eye protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
 - **Description:** Product based on methacrylate copolymers

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Γ	· Dangerous components:			
Γ	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 EINECS: 202-327-6	dibenzoyl peroxide 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	≥0.25-<1%	

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 eye contact Rinse opened eye 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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling No special measures required.

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- 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.

8.1 Contro	ol parameters				
· Components with critical values that require monitoring at the workplace:					
80-62-6 m	ethyl methacry	<i>r</i> late	•		
WEL (Gre	at Britain)	Short-terr Long-terr	m value: 416 m n value: 208 m	g/m³, 100 ppm g/m³, 50 ppm	
IOELV (Ει	ıropean Union)		m value: 100 pp n value: 50 ppn		
94-36-0 di	benzoyl perox	ide			
WEL (Gre	at Britain)	Long-terr	n value: 5 mg/n	1 ³	
· DNI	ELs				
80-62-6 m	ethyl methacry	<i>r</i> late			
Oral	general popula	tion, long	term, systemic	8.2 mg/Kg (not defined)	
Dermal	worker industri	al, long te	rm, systemic	13.67 mg/Kg/d (not defined)	
	general popula	tion, long	term, systemic	8.2 mg/Kg/d (not defined)	
Inhalative	worker industrial, acute, local			416 mg/m3 (not defined)	
	worker industrial, long term, systemic			348.4 mg/m3 (not defined)	
	worker industrial, long term, local			208 mg/m3 (not defined)	
	general population, acute, local			208 mg/m3 (not defined)	
			term, systemic	74.3 mg/m3 (not defined)	
	benzoyl perox				
Oral	•			2 mg/Kg (not defined)	
Dermal	worker industri			13.3 mg/Kg/d (not defined)	
Inhalative worker industrial, long te		ai, iong te	rm, systemic	39 mg/m3 (not defined)	
· PNE		-1-4-			
	ethyl methacry	<i>r</i> iate	0.04 ma///ast	dofinad)	
freshwater marine wa			0.94 mg/l (not 0.094 mg/l (no	,	
	eatment plant		10 mg/l (not de		
-	•	hwater	• ,	,	
	ment, dry weight, freshwater ment, dry weight, marine water		10.2 mg/Kg (not defined) 0.102 mg/Kg (not defined)		
soil, dry w		o water	. .	1.48 mg/Kg (not defined)	
	benzoyl perox	ide	· · · · · · · · · · · · · · · · · · ·		
freshwater		- =	0.00002 mg/l (not defined)	
marine water sewage treatment plant			0.000002 mg/l		
			0.35 mg/l (not	•	
	•		• ,	•	(Contd. on pag



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sediment, dry weight, freshwater	0.013 mg/Kg (not defined)
sediment, dry weight, marine water	0.001 mg/Kg (not defined)
soil, dry weight	0.003 mg/Kg (not defined)

• Additional information: The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

- Appropriate engineering controls No further data; see item 7.
- · Individual protection measures, such as personal protective equipment
 - General protective and hygienic measures

Wash hands during breaks and at the end of the work.

- Breathing equipment: Not necessary if room is well-ventilated.
- Hand protection

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 calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break trough 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/face protection Safety glasses
- · Body protection: Light weight protective clothing

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

General Information

Physical state
Colour:
Colourless Pink
Smell:
Odourless

· Odour threshold:
· Melting point/freezing point:

Not determined

Not determined

· Boiling point or initial boiling point and

boiling range Not determined Not determined.

· Lower and upper explosion limit

· Lower:
· Upper:
· In Not determined.
· Very Service of the Composition temperature:
· Lower:
· Not determined.

Not applicable
400.0 °C
· Decomposition temperature:
Not determined.

• Decomposition temperature: Not determined SADT

pH Mixture is non-soluble (in water).

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· Viscosity:

Kinematic viscosity

dvnamic:

Solubility

Water:

Partition coefficient n-octanol/water (log

value)

Steam pressure:

Density and/or relative density

Density at 20 °C

Relative density

· Vapour density

Insoluble

Not determined. Not applicable.

0 g/cm3

100.0 %

Not determined. Not applicable.

Not applicable.

Not applicable.

No further relevant information available.

· 9.2 Other information 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:

Change in condition Evaporation rate Not applicable.

· Information with regard to physical hazard classes

Void · Explosives · Flammable gases Void Void Aerosols Oxidising gases Gases under pressure Void Void Flammable liquids Void Flammable solids Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void Pyrophoric solids Void

· Self-heating substances and mixtures Substances and mixtures, which emit

flammable gases in contact with water Oxidising liquids Oxidising solids

· Organic peroxides Corrosive to metals · Desensitised explosives

Void Void

Void

Void

Void Void

Void

SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- 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.

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- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: None
 - Additional information: -

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values that are relevant for classification:			
80-62-6 m	80-62-6 methyl methacrylate		
Oral	Oral LD50 ~7,900 mg/kg (rat)		
Dermal LD50 >5,000 mg/kg (guinea pig) (OECD 402)		>5,000 mg/kg (guinea pig) (OECD 402)	
Inhalative	Inhalative LC50/4 h 29.8 mg/l (rat)		
94-36-0 di	94-36-0 dibenzoyl peroxide		
Oral	Oral LD0 >2,000 mg/kg (mouse) (OECD 401)		
Inhalative LC0/4h 24.3 ppm (rat) (OECD 403)		24.3 ppm (rat) (OECD 403)	

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation
- May cause an allergic skin reaction.
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- Aspiration hazard Based on available data, the classification criteria are not met.
- 11.2 Information on other hazards
 - · Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity		
· Aquatic to	oxicity:	
80-62-6 meth	nyl 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)	
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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)

· 12.2 Persistence and degradability

80-62-6 methyl methacrylate

Biodegradation 94 % /14d (not defined) (OECD 301C)

94-36-0 dibenzoyl peroxide

Biodegradation 71 % /28d (not defined) (OECD 301D)

- · 12.3 Bioaccumulative potential No further relevant information available.
- 12.4 Mobility in soil No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment
 - · PBT: Not applicable.
 - · vPvB: Not applicable.
- 12.6 Endocrine disrupting properties

For information on endocrine disrupting properties see section 11.

- · 12.7 Other adverse effects
 - · Additional ecological information:
 - General notes:

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

SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
 - Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage

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.

SECTION 14: Transport information		
UN3077		
3077 ENVIRONMENTALLY HAZARDOU SUBSTANCE, SOLID, N.O.S. (dibenzoy peroxide)		



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· IMDG	ENVIRONMENTALLY HAZARDOU SUBSTANCE, SOLID, N.O.S. (dibenzo)
	peroxide), MARINE POLLUTANT
·IATA	ENVIRONMENTALLY HAZARDOU
	SUBSTANCE, SOLID, N.O.S. (dibenzo peroxide)
· 14.3 Transport hazard class(es)	persuacy
· ADR	
· Class	9 (M7) Miscellaneous dangerous substance
· Label	and articles. 9
IMDG, IATA	3
INIDG, IATA	
1 1 1 1 1 1 1 1 1 1	
· Class	9 Miscellaneous dangerous substances ar
· Label	articles. 9
· 14.4 Packing group	
ADR, IMDĞ, IATA	III
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· Special marking (ADR):	Symbol (fish and tree) Symbol (fish and tree)
· Special marking (IATA):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances ar articles.
· Kemler Number:	90
EMS Number:	F-A,S-F
· Stowage Category · Stowage Code	SW23 When transported in BK3 bu
otomage oode	container, see 7.6.2.12 and 7.7.3.9.
· 14.7 Maritime transport in bulk according IMO instruments	
· Transport/Additional information:	- ·
· ADR	
· Limited quantities (LQ)	5 kg
Excepted quantities (ÉQ)	Code: E1
	Maximum net quantity per inner packaging 30 g
	Maximum net quantity per outer packagin
Tue we work and a	1000 g
· Transport category	3
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· Tunnel restriction code

·IMDG

· Limited quantities (LQ)

Excepted quantities (ÉQ)

5 kg Code: E1

Maximum net quantity per inner packaging:

(-)

Maximum net quantity per outer packaging:

1000 g

UN 3077 ENVIRONMENTALLY HAZARDOUS UN "Model Regulation":

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
- 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.

Abbreviations and acronyms:

ADDreviations and actorymis:

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)

CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (ÚK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)
LC50: Lethal concentration, 50 percent
LD50: 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
Eve Irrit 2: Serious and demonstration – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Skin Sens. 1: Skin sensitisation - Category 1

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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 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

* * Data compared to the previous version altered.