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Revision: 30.01.2024

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

Printing date 30.01.2024

Version number 4 (replaces version 3)

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

- · 1.1 Product identifier
 - · Trade name: Palavit 55 VS 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

H317 May cause an allergic skin reaction. Skin Sens. 1

Aquatic Acute 1 H400 Very toxic to aquatic life.

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

- · 2.2 Label elements
 - Labelling according to Regulation (EC) No 1272/2008

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

· Hazard pictograms





GHS07 GHS09

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

dibenzoyl peroxide

methyl methacrylate

· Hazard statements

H317 May cause an allergic skin reaction.

H410 Very toxic to aquatic life with long lasting effects.

· Precautionary statements

Avoid release to the environment. P273

P280 Wear protective gloves / eye protection.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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



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SECTION 3: Composition/information on ingredients

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

· Dangerous component	s:	
CAS: 94-36-0	dibenzoyl peroxide	<i>≥</i> 2.5- <i>≤</i> 5%
EINECS: 202-327-6 Index number: 617-008-00-0	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	
	•	/
CAS: 80-62-6	methyl methacrylate	<i>≥1-≤</i> 5%
EINECS: 201-297-1 Index number: 607-035-00-0	Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	
CAS: 1953-33-9	5-butyl-1H,3H,5H-pyrimidine-2,4,6-trione	<i>≥</i> 0- <i>≤</i> 5%
EINECS: 217-781-0	Skin Irrit. 2, H315; Eye Irrit. 2, H319	

[·] Additional information For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- · 4.1 Description of first aid measures
 - General information No special measures required.
 - · 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. Then consult doctor.
- · 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 Not required.
- **6.2 Environmental precautions:** No special measures required.

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- · 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.

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SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling No special measures required.
 - · 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.

OF CITAL OF EXPOSURE CONTROL PROCESSION	SECTION 8: Ex	posure controls/	personal	protection
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۶ ٠	3.1	Control	parameters
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· Compo	onents with cri	tical values that require	monitoring at the workplace:	
94-36-0 di	ibenzoyl perox	ide		
WEL (Gre	at Britain)	Long-term value: 5 mg/n	1 ³	
80-62-6 m	ethyl methacry	/late		
WEL (Gre	at Britain)	Short-term value: 416 m Long-term value: 208 mg	g/m³, 100 ppm g/m³, 50 ppm	
IOELV (Ει	ıropean Union)	Short-term value: 100 pp Long-term value: 50 ppn		
· DNI	ELs			
94-36-0 dibenzoyl peroxide				
Oral	general population, long term, systemic worker industrial, long term, systemic		2 mg/Kg (not defined)	
Dermal			13.3 mg/Kg/d (not defined)	
Inhalative	worker industri	al, long term, systemic	39 mg/m3 (not defined)	
80-62-6 m	ethyl methacry	/late		
Oral	general popula	tion, long term, systemic	8.2 mg/Kg (not defined)	
Dermal	worker industri	al, long term, systemic	13.67 mg/Kg/d (not defined)	
	general popula	tion, long term, systemic	8.2 mg/Kg/d (not defined)	
Inhalative	worker industri	al, acute, local	416 mg/m3 (not defined)	
	worker industri	al, long term, systemic	348.4 mg/m3 (not defined)	
	worker industri	al, long term, local	208 mg/m3 (not defined)	
	general popula	tion, acute, local	208 mg/m3 (not defined)	
		tion, long term, systemic	, ,	
				(Contd. on page



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PNECs	
94-36-0 dibenzoyl peroxide	
freshwater	0.00002 mg/l (not defined)
marine water	0.000002 mg/l (not defined)
sewage treatment plant	0.35 mg/l (not defined)
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)
80-62-6 methyl methacrylate	
freshwater	0.94 mg/l (not defined)
marine water	0.094 mg/l (not defined)
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)

· 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 section 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

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 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

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

General Information

Physical state Colourless Colour: Pink · Smell: Odourless

Odour threshold: Not determined. · Melting point/freezing point: Not determined

· Boiling point or initial boiling point and

boiling range Not determined · Flammability Not determined.

· Lower and upper explosion limit

Lower: Not determined. · Upper: Not determined. · Flash point: Not applicable

· Auto-ignition temperature: 400.0°C Decomposition temperature: Not determined.

·SADT pН

Mixture is non-soluble (in water). Viscosity:

· Kinematic viscosity · Kinematic viscosity

· dynamic: Not applicable.

Solubility

Water: Insoluble

· Partition coefficient n-octanol/water (log

Not determined. value) · Steam pressure: Not applicable.

Vapour pressure:

Density and/or relative density

Density Not determined Relative density Not determined. · Vapour density Not applicable.

9.2 Other information

No further relevant information available.

Not applicable.

Appearance:

Form: Powder

· Important information on protection of health

and environment, and on safety.

· Self-inflammability: Product is not selfianitina.

Product is not explosive. However, formation of · Explosive properties: explosive powder/air mixtures is possible.

· Change in condition

· Evaporation rate Not applicable.

· Information with regard to physical hazard

Explosives Void Void Flammable gases

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· 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		
flammable gases in contact with water	Void	
· Oxidising liquids	Void	
· Oxidising solids	Void	
· Organic peroxides	Void	
Corrosive to metals	Void	
· Desensitised explosives	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.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: None

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/	· LD/LC50 values that are relevant for classification:		
94-36-0 di	94-36-0 dibenzoyl peroxide		
Oral	Oral LD0 >2,000 mg/kg (mouse) (OECD 401)		
Inhalative	Inhalative LC0/4h 24.3 ppm (rat) (OECD 403)		
80-62-6 m	80-62-6 methyl methacrylate		
Oral LD50 ~7,900 mg/kg (rat)			
Dermal	Dermal LD50 >5,000 mg/kg (guinea pig) (OECD 402)		
Inhalative	LC50/4 h	29.8 mg/l (rat)	
Skin correction/irritation Resed on available data, the classification criteria are not met			

- 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.

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- · 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

•		
94-36-0	dibenzoyl	peroxide

· Aquatic toxicity:

OT OU O GIDO	in Edy i perdatad
EC50/72h	0.042 mg/l (algae) (OECD 201)
	_ , , , , , , , , , , , , , , , , , , ,

	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)

80-62-6 methyl methacrylate

EC50/21d	49 mg/L	(daphnia)	(OECD 211)
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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)

12.2 Persistence and degradability

94-36-0 dibenzoyl peroxide

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

80-62-6 methyl methacrylate

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

- 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.

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· 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 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.

14.1 UN number or ID number ADR, IMDG, IATA	UN3077
14.2 UN proper shipping name ADR IMDG, IATA	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoy peroxide) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoy peroxide)
14.3 Transport hazard class(es)	
ADR	
Class	9 (M7) Miscellaneous dangerous substance and articles.



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· IMDG	
2	
· Class	9 Miscellaneous dangerous substances and articles.
· Label	9
· IATA	

Class	9 Miscellaneous dangerous substances and articles.
· Label	9
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards: · Marine pollutant: · Special marking (ADR): · Special marking (IATA):	No Symbol (fish and tree) Symbol (fish and tree)
· 14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles.
Kemler Number:	90
· EMS Number: · Stowage Category	F-A,S-F A
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 instruments	o IMO Not applicable.
· Transport/Additional information:	-
· ADR · Limited quantities (LQ) · Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g
· Transport category · Tunnel restriction code	Maximum net quantity per outer packaging: 1000 g 3 (-)
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· IMDG

· Limited quantities (LQ)

Excepted quantities (ÉQ)

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 100 t
 - Qualifying quantity (tonnes) for the application of upper-tier requirements 200 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:

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)
DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (ÚK 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

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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 1
** Data compared to the previous version altered.