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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: 07.07.2022

# 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.

H400 Very toxic to aquatic life. Aquatic Acute 1

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



- · 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

P273 Avoid release to the environment. 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.

#### SECTION 3: Composition/information on ingredients

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

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Contact of page 1			
<ul> <li>Dangerous com</li> </ul>	ponents:		
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	_ ≥2.5-≤5%	
CAS: 80-62-6 EINECS: 201-297-1	methyl methacrylate Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	_ ≥1-≤5%	
CAS: 1953-33-9	5-butyl-1H,3H,5H-pyrimidine-2,4,6-trione Skin Irrit. 2, H315; Eye Irrit. 2, H319	_ ≥0-≤5%	

<sup>·</sup> 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 eve 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.
- 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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80-62-6 methyl methacrylate

freshwater

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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
  - - 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.

SECTIO	N 8: Exposu	re conti	rols/persona	al protection
	SECTION 8: Exposure controls/personal protection 8.1 Control parameters			
	•	tical valu	es that require	monitoring at the workplace:
-	benzoyl perox		•	,
WEL (Great	at Britain)	Long-terr	n value: 5 mg/n	า³
80-62-6 m	ethyl methacry	/late		
WEL (Great	at Britain)	Short-teri Long-terr	m value: 416 m n value: 208 m	g/m³, 100 ppm g/m³, 50 ppm
IOELV (Eu	ıropean Union)		m value: 100 pp n value: 50 ppn	
· DNE	ELs			
94-36-0 di	benzoyl perox	ide		
Oral	general popula	tion, long	term, systemic	2 mg/Kg (not defined)
Dermal	worker industri	al, long te	rm, systemic	13.3 mg/Kg/d (not defined)
Inhalative	worker industri	al, long te	rm, systemic	39 mg/m3 (not defined)
80-62-6 m	ethyl methacry	/late		
Oral	general popula	_	-	,
Dermal	worker industri	_	-	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 te	rm, systemic	348.4 mg/m3 (not defined)
	worker industri	al, long te	rm, local	208 mg/m3 (not defined)
	general popula			208 mg/m3 (not defined)
general population, long term,		term, systemic	74.3 mg/m3 (not defined)	
·PNE	Cs			
94-36-0 di	benzoyl perox	ide		
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)	

0.94 mg/l (not defined)



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marine water
sewage treatment plant
sediment, dry weight, freshwater
sediment, dry weight, marine water
soil, dry weight

0.094 mg/l (not defined)
10 mg/l (not defined)
10.2 mg/Kg (not defined)
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 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

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

#### 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: Not determined. · Melting point/freezing point: Not determined

· Boiling point or initial boiling point and

boiling range Not determined Not determined.

· Lower and upper explosion limit

Lower:
Upper:
Not determined.
Not applicable
Ignition temperature:
Upper:
Not determined.
Not applicable
400.0 °C
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 · Relative density

· Vapour density

Insoluble

Not applicable.

Not applicable.

Not determined.

Not applicable. Not determined

Not determined.

Not applicable. No further relevant information available.

· 9.2 Other information

Appearance:

Powder Form:

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

Void

Void

Void

Void

Void

Void

explosive powder/air mixtures is possible.

Change in condition

Evaporation rate Not applicable.

· Information with regard to physical hazard classes

 Explosives · Flammable gases · Aerosols · Oxidising gases · Gases under pressure Flammable liquids · Flammable solids

Void · Self-reactive substances and mixtures Void · Pyrophoric liquids Void Pyrophoric solids Void Void

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

flammable gases in contact with water Oxidising liquids Void 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.

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· 10.6 Hazardous decomposition products: None

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#### 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	LD0	>2,000 mg/kg (mouse) (OECD 401)		
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	LD50	>5,000 mg/kg (guinea pig) (OECD 402)		
Inhalative	LC50/4 h	29.8 mg/l (rat)		

- 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	<i>(</i>	
· Aquatic t	oxicity:	
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)	
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 metl	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)	
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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.

- · 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 · 14.1 UN number or ID number · ADR, IMDG, IATA UN3077 · 14.2 UN proper shipping name 3077 ENVIRONMENTALLY HAZARDOUS · ADR SUBSTANCE, SOLID, N.O.S. (dibenzoyl ENVIRONMENTALLY HAZARDOUS · IMDG, IATA SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)

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· 14.3 Transport hazard class(es)	
ADR	
	O (MZ) Missallanasus danasus substans
· Class	<ol> <li>9 (M7) Miscellaneous dangerous substance and articles.</li> </ol>
· Label	9
· IMDG	
<b>*</b>	O Missallana and damage as hadana a
· Class	<ol> <li>9 Miscellaneous dangerous substances au articles.</li> </ol>
· Label	9
IATA	
<b>V</b>	
· Class	9 Miscellaneous dangerous substances au articles.
· Label	9
· 14.4 Packing group · ADR, IMDG, IATA	III
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· Special marking (ADR): · Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances a
Kemler Number:	articles. 90
· EMS Number:	F-A,S-F
· Stowage Category	A SW23 When transported in BK3 hu
· Stowage Code	SW23 When transported in BK3 bu container, see 7.6.2.12 and 7.7.3.9.
14.7 Maritime transport in bulk accordi	
IMO instruments	Not applicable.
Transport/Additional information:	<del>-</del>
ADR Limited quantities (LQ)	5 kg
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packagin 30 g
	Maximum net quantity per outer packagin
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1000 g · Transport category .3 Tunnel restriction code

· IMDG

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

Maximum net quantity per inner packaging:

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 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 (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

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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.