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Revision: 01.03.2023

Tel.: +49 (0)800 4372522

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

Printing date 01.03.2023

Version number 6 (replaces version 5)

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

## undertaking

- · 1.1 Product identifier
  - · Trade name: Palavit G 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 Auxiliary for 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)

· 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.

Aquatic Chronic 2 H411 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 CLP regulation.

Hazard pictograms





GHS09 GHS07

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

dibenzoyl peroxide

methyl methacrylate

· 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.

P280 Wear protective clothing

P332+P313 If skin irritation 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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· Dangerous com	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	_ ≥1-<2.5%
CAS: 80-62-6 EINECS: 201-297-1	Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	_ ≥0.1-<1%
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 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. Then consult doctor.

After swallowing

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; instantly call for medical help.

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 Wear protective equipment. Keep unprotected persons away.

  Avoid causing dust.
- · 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

See Section 8 for information on personal protection equipment.

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## SECTION 7: Handling and storage

- · 7.1 Precautions for safe handling Store in cool, dry place in tightly closed containers.
  - Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
- · 7.2 Conditions for safe storage, including any incompatibilities
  - Storage
    - Requirements to be met by storerooms and containers: Store in cool, dry place in tightly closed containers.

    - Information about storage in one common storage facility: Store away from flammable substances.
    - · Further information about storage conditions: Store cool (not above 25 °C).
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8	3: Exposure con	trols/persona	I protection

٠ 8	.1	Contro	l para	meters
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· Components with critical values that require monitoring at the workplace:		
94-36-0 dibenzoyl perox	ide	
OEL (Ireland)	Long-term value: 5 mg/m³ Sens	
80-62-6 methyl methacry	ylate	
OEL (Ireland)	Short-term value: 100 ppm Long-term value: 50 ppm IOELV, Sens	
IOELV (European Union) Short-term value: 100 ppm Long-term value: 50 ppm		
DNELO		

٠	D	Ν	E	Ls
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94-36-0	dibenzoyl	peroxide
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Oral	general population, long term, systemic	2 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	13.3 mg/Kg/d (not defined)
Inhalative	worker industrial, long term, systemic	39 mg/m3 (not defined)

#### 80-62-6 methyl methacrylate

Oral	general population, long term, systemic	8.2 mg/Kg (not defined)
Dermal	worker industrial, long term, systemic	13.67 mg/Kg/d (not defined)
	general population, 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)
	general population, long term, systemic	74.3 mg/m3 (not defined)

#### · 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)
	0.013 mg/Kg (not defined)

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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 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: Use a mask with particle filter in case of dust generation.
- · 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.

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 Tightly sealed 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:
Smell:
Solid.
Red
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.

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(Contd. of page 4) · Lower and upper explosion limit Lower: Not determined. Upper: Not determined. · Flash point: Not applicable Ignition temperature: 400 °C Decomposition temperature: Not determined. SADT рH Mixture is non-soluble (in water). Viscosity: Kinematic viscosity Not applicable. Not applicable. dynamic: Solubility Water: Insoluble Partition coefficient n-octanol/water (log Not determined. value) Steam pressure: Not applicable. Density and/or relative density
Density at 20 °C 0 g/cm³ · Relative density Not determined. · Vapour density Not applicable. · Particle characteristics See item 3. 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. 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 classes · Explosives Void Flammable gases Void · Aerosols Void 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 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

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· 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
- - 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/	· LD/LC50 values that are relevant for classification:		
94-36-0 d	ibenzoyl p	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

· Aquatic toxicity:

#### 94-36-0 dibenzoyl 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)

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	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)	
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 Persiste	ence and degradability	
94-36-0 dibe	nzoyl peroxide	
Diadagradation 74.0/ (20d (not defined) (OCCD 204D)		

- 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

The product does not contain substances with endocrine disrupting properties.

- 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.

European waste catalogue

18 01 06\* chemicals consisting of or containing hazardous substances

- Uncleaned packagings:
  - · Recommendation:

Disposal must be made according to official regulations.

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Non contaminated packagings can be used for recycling.

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SECTION 14: Transport informat	ion
· 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	
<b>1 1 1 1 1 1 1 1 1 1</b>	
Class	<ol> <li>9 (M7) Miscellaneous dangerous substance and articles.</li> </ol>
· Label	9
· IMDG	
· Class	9 Miscellaneous dangerous substances an
Labal	articles.
· Label	9
· IATA	
· Class	9 Miscellaneous dangerous substances an 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 an



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· Kemler Number: 90 · EMS Number: F-A.S-F

Stowage Category

· 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

IMO instruments Not applicable.

· Transport/Additional information:

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

Maximum net quantity per inner packaging:

Maximum net quantity per outer packaging:

1000 g

· Transport category 3 Tunnel restriction code (-)

·IMDG

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

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 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.

- · REGULATION (EU) 2019/1148
  - · Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

no information available

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

no information available

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

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· Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

Trade name: Palavit G Powder

· 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: 17.06.2021

· Version number of previous version: 5

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

IMDG. International Mantime 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 (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
LCEO: Lethal concentration, 50 percent

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

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 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.