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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: Palapress vario 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.

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 GB 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.

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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| · Dangerous components: | | |
|-----------------------------------|--|----------|
| 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 | methyl methacrylate Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335 | ≥1-≤5% |
| CAS: 72846-00-5 | 1-benzyl-5-phenylbarbituric acid Acute Tox. 4, H302; Eye Irrit. 2, H319 ATE: LD50 oral: 500 mg/kg | ≥0-≤5% |

[·] 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
 - · After inhalation Supply fresh air; consult doctor in case of symptoms.
 - · After skin contact Instantly wash with water and soap and rinse thoroughly.
 - 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 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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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.

| SECTIO | N 8: Exposure con | trols/persona | al protection | |
|------------------------------------|---|---------------------------------------|---|--|
| 8.1 Contro | ol parameters | | | |
| | | ues that require | e monitoring at the workplace: | |
| - | ibenzoyl peroxide | , | · · | |
| WEL (Gre | | rm value: 5 mg/r | n³ | |
| 80-62-6 m | ethyl methacrylate | | | |
| WEL (Gre | Long-te | rm value: 208 m | m value: 416 mg/m³, 100 ppm m value: 208 mg/m³, 50 ppm | |
| IOELV (Ει | uropean Union) Short-te Long-te | erm value: 100 pp rm value: 50 ppr | om n | |
| · DNI | ELs | | | |
| 94-36-0 di | benzoyl peroxide | | | |
| Oral | general population, long term, systemic 2 mg/Kg (not defined) | | 2 mg/Kg (not defined) | |
| Dermal | worker industrial, long | erm, systemic | 13.3 mg/Kg/d (not defined) | |
| | worker industrial, long | erm, systemic | 39 mg/m3 (not defined) | |
| | ethyl methacrylate | | | |
| Oral | general population, lon | | , | |
| Dermal | worker industrial, long | erm, systemic | 13.67 mg/Kg/d (not defined) | |
| | general population, lon | • | 1 | |
| Inhalative | worker industrial, acute | • | 416 mg/m3 (not defined) | |
| | worker industrial, long | • | 348.4 mg/m3 (not defined) | |
| | worker industrial, long | | 208 mg/m3 (not defined) | |
| | general population, acu | ite, local | 208 mg/m3 (not defined) | |
| | general population, lon | g term, systemic | 74.3 mg/m3 (not defined) | |
| ·PNE | ECs | | | |
| 94-36-0 di | ibenzoyl peroxide | | | |
| freshwater | • | 0.00002 mg/l (| (not defined) | |
| marine water | | 0.000002 mg/l | 0.000002 mg/l (not defined) | |
| sewage treatment plant | | 0.35 mg/l (not | 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) | |
| | ethyl methacrylate | | | |
| freshwater | | 0.94 mg/l (not | , | |
| marine water | | 0.094 mg/l (no | · · | |
| sewage tre | eatment plant | 10 mg/l (not de | efined) | |



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| sediment, dry weight, freshwater | 10.2 mg/Kg (not defined) |
|------------------------------------|---------------------------|
| sediment, dry weight, marine water | 0.102 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

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

- · Eve/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 Solid. · Colour: Colourless Pink

Smell: Nearly 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:
Decomposition temperature:
Not determined.

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·SADT

pН

Viscosity:

Kinematic viscosity · dynamic:

Solubility

· Water:

Partition coefficient n-octanol/water (log

value)

Steam pressure:

Density and/or relative density

Density at 20 °C

· Relative density

· Vapour density

Not determined.

Insoluble

Not applicable.

0 g/cm3 Not determined. Not applicable.

Not applicable.

Not applicable.

No further relevant information available.

Product is not selfigniting.

Product is not explosive. However, formation of explosive powder/air mixtures is possible.

Mixture is non-soluble (in water).

· 9.2 Other information Appearance:

Form:

· Important information on protection of

health and environment, and on safety.

· Self-inflammability:

Explosive properties:

· Solvent content:

Solids content: · Change in condition

· Evaporation rate

100.0 %

Powder

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

· Oxidising solids Organic peroxides Corrosive to metals

· Desensitised explosives

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.

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- · 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.

| rioute texiony based on available acta, the statement of terior a district | | |
|--|----------|--------------------------------------|
| · LD/LC50 values that are relevant for classification: | | |
| 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 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) |
| 72846-00-5 1-benzyl-5-phenylbarbituric acid | | |
| Oral | LD50 | 500 mg/kg (ATE) |
| | | 500 mg/kg (rat) (OECD 423) |

- 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 | · 12.1 Toxicity | | | |
|-----------------|--|--|--|--|
| · Aquatic t | · Aquatic toxicity: | | | |
| 94-36-0 dibe | 94-36-0 dibenzoyl peroxide | | | |
| EC50/72h | 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) | | | |
| | (Cantal an mana 7) | | | |

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|--|---|--|--|
| ErC10 0.001 mg/L /21d (daphnia) (OECD 211) | | | |
| | 80-62-6 methyl 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) | |
| | 72846-00-5 1-benzyl-5-phenylbarbituric acid | | |
| | EC50/48h | >50 mg/l (daphnia) (OECD 202) | |
| | ErC50 / 72 h | >50 mg/l (algae) (OECD 201) | |
| Ī | 12.2 Persistence and degradability | | |
| | 94-36-0 dibe | nzoyl peroxide | |
| | Biodegradation | on 71 % /28d (not defined) (OECD 301D) | |
| | 80-62-6 methyl methacrylate | | |
| | Biodegradation | on 94 % /14d (not defined) (OECD 301C) | |
| | | -benzyl-5-phenylbarbituric acid | |
| | Biodegradation | on 29.1 % /29d (not defined) (OECD 301D) | |
| _ | 40.0.51 | and the second of the first transfer and transfer | |

- · 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 product to reach ground water, water bodies or sewage system.

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

Danger to drinking water if even small quantities leak into soil.

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:

Packaging can be reused or recycled after cleaning.

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Non contaminated packagings can be used for recycling.

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| 44 4 LIN number on ID number | |
|---|---|
| 14.1 UN number or ID number ADR, IMDG, IATA | UN3077 |
| 14.2 UN proper shipping name · ADR | 3077 ENVIRONMENTALLY HAZARDOU SUBSTANCE, SOLID, N.O.S. (dibenzo |
| · IMDG | peroxide) ENVIRONMENTALLY HAZARDOL SUBSTANCE, SOLID, N.O.S. (dibenzo peroxide), MARINE POLLUTANT |
| ·IATA | ENVIRONMENTALLY HAZARDOL SUBSTANCE, SOLID, N.O.S. (dibenzo peroxide) |
| 14.3 Transport hazard class(es) | |
| ADR | |
| 1 1 1 1 1 1 1 1 1 1 | |
| · Class | 9 (M7) Miscellaneous dangerous substanc and articles. |
| · Label | 9 |
| · IMDG, IATA | |
| | |
| Class | 9 Miscellaneous dangerous substances a articles. |
| · Label | 9 |
| 14.4 Packing group ADR, IMDG, IATA | III |
| 14.5 Environmental hazards: Marine pollutant: | No Symbol (fish and tree) |
| · 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 articles. |
| · Kemler Number: · EMS Number: | 90 F-A,S-F |
| · Stowage Category | Α |



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|---|--|
| · 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 IMO instruments | to Not applicable. |
| · Transport/Additional information: | - |
| · ADR · 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 |
| · Transport category · Tunnel restriction code | 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 HAZARDOU SUBSTANCE, SOLID, N.O.S. (DIBENZOY 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.

H302 Harmful if swallowed.

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

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ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement

ACCOTA Tetatif at transport International des marchandises dangere 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 (UK REACH)
LC50: Lethal concentration, 50 percent

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
Acute Tox. 4: Acute toxicity — Category 4
Scin Irrit. 2: Skin corrosion/irritation — Category 2
Eye Irrit. 2: Skin corrosion/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 2: Hazardous to the aquatic environment - long-term aquatic hazard — Category 2
* Data compared to the previous version altered.