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Safety Data Sheet according to HPR, Schedule 1

Printing date 01/30/2024

Reviewed on 01/30/2024

Tel.: +49 (0)800 4372522

1 Identification

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

- · Application of the substance / the mixture Manufacture of dental prothesis
- · Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

Kulzer GmbH

Leipziger Straße 2, 63450 Hanau (Germany)

Information department:

Tel. +1 (800) 431-1785 Fax: +1 (800) 522-1545 e-mail: customer.servicehkna@kulzer-dental.com

· Emergency telephone number:

Emergency CONTACT (24-Hour-Number)
ID 105860: (domestic) 1 800 535 5053 or international (001) 352 323 3500

2 Hazard identification

Classification of the substance or mixture

Skin Sensitizer - Category 1 H317 May cause an allergic skin reaction.

- · Label elements
 - GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



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

dibenzoyl peroxide

methyl methacrylate

· Hazard statements

May cause an allergic skin reaction.

· Precautionary statements

Avoid release to the environment.

Wear protective gloves / eye protection.

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

Classification system

· NFPA ratings for USA (scale 0-4)



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· HMIS-Ratings (Scale 0-4)

HEALTH 0
FIRE 1
REACTIVITY 0

Health = 0 Fire = 1 Reactivity = 0

· Other hazards -

3 Composition/Information on ingredients

- · Chemical characterization: Mixtures
 - · Description: Product based on methacrylate copolymerisates

· Danger	Dangerous components:		
	dibenzoyl peroxide	≥1-≤5% w/w *	
	Organic Peroxides – Type B, H241 Eye Irritation - Category 2A, H319; Skin Sensitizer - Category 1, H317		
80-62-6	methyl methacrylate	≥1-≤5% w/w *	
	Flammable Liquids - Category 2, H225 Skin Irritation - Category 2, H315; Skin Sensitizer - Category 1, H317; Specific Target Organ Toxicity - Single Exposure - Category 3, H335		
1953-33-9	5-butyl-1H,3H,5H-pyrimidine-2,4,6-trione	<i>≥</i> 0- <i>≤</i> 5% w/w *	
	Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319		

^{*} Actual concentration ranges are withheld as a trade secret.

4 First-aid measures

- · Description of first aid measures
 - General information No special measures required.
 - · After skin contact

Immediately 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 a doctor.
- · After swallowing

Rinse out mouth and then drink plenty of water.

If symptoms persist consult doctor.

- Information for doctor
 - · Most important symptoms and effects, both acute and delayed No further relevant information available.
 - · Indication of any immediate medical attention and special treatment needed No further relevant information available.

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



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5 Fire-fighting measures

- Extinguishing media
 - · Suitable extinguishing agents

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
 - · Protective equipment: No special measures required.
- · Additional information -

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections

No dangerous substances are released.

See Section 8 for information on personal protection equipment.

7 Handling and storage

- · Handling
 - · Precautions for safe handling No special measures required.
 - · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
 - Storage
 - · Requirements to be met by storerooms and receptacles: No special requirements.
 - Information about storage in one common storage facility: Not required.
 - Further information about storage conditions: Keep cool, if possible (not above 25 °C).
- · Specific end use(s) No further relevant information available.

8 Exposure controls/ Personal protection

- · Additional information about design of technical systems: No further data; see section 7.
- · Control parameters
 - · Components with limit values that require monitoring at the workplace:

94-36-0 dibenzoyl peroxide

EL TWA: 5 mg/m³
EV TWA: 5 mg/m³

80-62-6 methyl methacrylate

EL STEL: 100 ppm TWA: 50 ppm

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EV STEL: 100 ppm TWA: 50 ppm

· Additional information: The lists that were valid during the creation were used as basis.

· Exposure controls

Personal protective equipment

- General protective and hygienic measures Wash hands before breaks and at the end of work.
- · Breathing equipment: Not necessary if room is well-ventilated.
- Protection of hands:

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 through 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 protection: Safety glasses
- · Body protection: Light weight protective clothing

9 Physical and chemical properties

ormation on basic physical and chemical properties		
General Information		
Appearance:	Douglar	
· Form:	Powder	
· Color:	Colorless	
	Pink	
· Odor:	Odorless	
· Odor threshold:	Not determined.	
· pH-value:	Mixture is non-soluble (in water).	
Change in condition	undatarminad	
Melting point/Melting range:	undetermined	
Boiling point/Boiling range:	undetermined	
· Flash point:	Not applicable	
· Flammability (solid, gaseous)	Not determined.	
· Auto igniting:	400,0 °C (752 °F)	
Decomposition temperature:	Not determined.	

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· Ignition temperature:	Product is not selfigniting.	
· Danger of explosion:	Product is not explosive. However, formation of explosive powder/air mixture mis possible.	
· Explosion limits: · Lower: · Upper:	Not determined. Not determined.	
· Vapor pressure:	Not applicable.	
· Density: · Relative density · Vapor density · Evaporation rate	Not determined Not determined. Not applicable. Not applicable.	
Solubility in / Miscibility with Water:	Insoluble	
· Partition coefficient (n-octanol/w	· Partition coefficient (n-octanol/water): Not determined.	
· Viscosity: · dynamic: · kinematic:	Not applicable. Not applicable.	
· Other information	No further relevant information available.	

10 Stability and reactivity

- Reactivity No further relevant information available.
 Possibility of hazardous reactions No dangerous reactions known
 Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: none

11 Toxicological information

- · Information on toxicological effects

Acute	loxicity:	
· LD/	· LD/LC50 values that are relevant for classification:	
94-36-0 di	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) weight of evidence
Dermal	LD50	>5.000 mg/kg (guinea pig) (OECD 402)
Inhalative	LC50/4 h	29,8 mg/l (rat)
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- · Primary irritant effect:
 - on the skin: No irritant effect. on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU

Classification Guidelines for Preparations as issued in the latest version:
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)			
94-36-0 dibenzoyl peroxide			
iron oxide Goethit FeO(OH)			
· NTP (National Toxicology Program)			
None of the ingredients is listed.			

· Reproductive toxicity Based on available data, the classification criteria are not met.

12 Ecological information

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	· 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)
	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)
	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)
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· Persistence and degradability

94-36-0 dibenzoyl peroxide

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

80-62-6 methyl methacrylate

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

- · Behavior in environmental systems:
 - · Bioaccumulative potential No further relevant information available.
 - · Mobility in soil No further relevant information available.
- · Additional ecological information:
 - · General notes:

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

- Results of PBT and vPvB assessment
 - · **PBT**: Not applicable.
 - vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · 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 Transport information

· UN-Number · DOT/TDG, ADR, IMDG, IATA UN3077

· UN proper shipping name

• DOT/TDG Environmentally hazardous substance, solid, n.o.s.
• ADR 3077 Environmentally hazardous substance, solid, n.o.s. (dibenzoyl peroxide)

· IMDG, IATA ENVIRONMENTALLY HÁZARDOUS SUBSTANCE, SOLID, N.O.S. (dibenzoyl peroxide)

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(Contd. of page 7) · Transport hazard class(es) · DOT, IMDG · Class 9 Miscellaneous dangerous substances and articles · Label · ADR ·Class 9 (M7) Miscellaneous dangerous substances and articlés · Label ·IATA · Class 9 Miscellaneous dangerous substances and articles · Label 9 · Packing group Ш DOT/TDG, ADR, IMDG, IATA · Environmental hazards: Marine pollutant: No · Special marking (ADR): Symbol (fish and tree) · Special marking (IATÁ): Symbol (fish and tree) · Special precautions for user Warning: Miscellaneous dangerous substances and articles · Hazard identification number (Kemler code): 90 F-A,S-F · EMS Number: · Stowage Category · Stowage Code SW23 When transported in BK3 bulk container, see 7.6.2.12 and 7.7.3.9. · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. · Transport/Additional information:



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· ADR

Code: E1 · Excepted quantities (EQ)

> Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000

· IMDG

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

Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000

UN 3077 ENVIRONMENTALLY HAZARDOUS · UN "Model Regulation":

SUBSTANCE, SOLID, N.O.S. (DIBENZOYL PEROXIDE), 9, III

15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

· SARA Section 355 (extremely hazardous substances)

None of the ingredients is listed.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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.

Date of the latest revision of the safety data sheet 01/30/2024

· Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation
IATA: International Air Transport Association
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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent

PBT: Persistent. Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative * * Data compared to the previous version altered.