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

Printing date 30.01.2024

Version number 4 (replaces version 3)

Revision: 30.01.2024

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

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.

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.

SECTION 8: Exposure controls/personal protection				
· 8.1 Control parameters				
· Compo	· Components with critical values that require monitoring at the workplace:			
94-36-0 di	benzoyl perox	ide		
OEL (Irela	nd)	Long-term value: 5 mg/n Sens	1 ³	
80-62-6 m	80-62-6 methyl methacrylate			
OEL (Irela	OEL (Ireland) Short-term value: 100 pr Long-term value: 50 ppr IOELV, Sens			
IOELV (Eu	IOELV (European Union) Short-term value: 100 p Long-term value: 50 pp			
· DNE	ELs			
94-36-0 di	benzoyl perox	ide		
Oral	general popula	tion, 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 m	ethyl methacry	<i>/late</i>		
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)	
			•	(Contd. on page 4)



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general population long	term, systemic 74.3 mg/m3 (not defined) (Contd. of page 3)
· 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)
30-62-6 methyl methacrylate	·
reshwater	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)
Hand protection Check protective gloves prior recommended Material of gloves The selection of the suita marks of quality and varie of several substances, th	nd at the end of the work. hecessary if room is well-ventilated. to each use for their proper condition. ble gloves does not only depend on the material, but also on further heres from manufacturer to manufacturer. As the product is a preparation he resistance of the glove material can not be calculated in advance hecked prior to the application.
 Penetration time of glov The exact break trough ti and has to be observed. 	e material me has to be found out by the manufacturer of the protective gloves tact of a maximum of 15 minutes gloves made of the following glasses

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9.1 Information on basic physical and chem	ical properties
· General Information	
· Physical state	Solid.
· Colour:	Colourless
	Pink
· Smell:	Odourless
Odour threshold:	Not determined.
• Melting point/freezing point:	Not determined
· Boiling point or initial boiling point an	nd and a second s
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	
· pH	Mixture is non-soluble (in water).
· Viscosity:	
· Kinematic viscosity	Not applicable.
· Kinematic viscosity	
· dynamic:	Not applicable.
· Solubility	
· Water:	Insoluble
· Partition coefficient n-octanol/water (I	
value)	Not determined.
· Steam pressure:	Not applicable.
· Vapour pressure:	
· Density and/or relative density	
· Density	Not determined
· Relative density	Not determined.
· Vapour density	Not applicable.
Particle characteristics	See section 3.
9.2 Other information	No further relevant information available.
· Appearance:	
Form:	Powder
 Important information on protection of here 	ealth
and environment, and on safety.	
Self-inflammability:	Product is not selfigniting.
 Explosive properties: 	Product is not explosive. However, formation
	explosive powder/air mixtures is possible.
Change in condition	-
· Evaporation rate	Not applicable.
Information with regard to physical ha	zard
classes	2010
· Explosives	Void



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[.] Flammable gases	Void	
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/LC50 values that are relevant for classification:

94-36-0 di	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	ethyl met	hacrylate
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)
· Seriou · Respir May ca · Germ o	s eye dan atory or s ause an alle cell mutag	rritation Based on available data, the classification criteria are not met. nage/irritation Based on available data, the classification criteria are not met. kin sensitisation ergic skin reaction. genicity Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. (Contd. on page 7)



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- **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.

	c toxicity:
	benzoyl peroxide
	0.042 mg/l (algae) (OECD 201)
	0.11 mg/l (daphnia) (OECD 202)
	0.06 mg/l (fish) (OECD 203)
	h 0.071 mg/l (algae) (OECD 201)
	2h 0.02 mg/l (algae) (OECD 201)
	6h 0.032 mg/l (fish) (OECD 203)
	8h 0.076 mg/l (daphnia) (OECD 202)
	0.001 mg/L /21d (daphnia) (OECD 21
	ethyl methacrylate
	49 mg/L (daphnia) (OECD 211)
	69 mg/l (daphnia) (EPA OTS 797.1300
	d 37 mg/l (daphnia) (OECD 211)
	h >110 mg/l (algae) (OECD 201)
	2h 110 mg/l (algae) (OECD 201)
	8h 48 mg/l (daphnia) (EPA OTS 797.1300
	2h >110 mg/l (algae) (OECD 201)
	d 9.4 mg/L (fish) (OECD 210)
	33.7 mg/L (fish) (OECD 210)
	stence and degradability
	benzoyl peroxide
	ation 71 % /28d (not defined) (OECD 301
	ethyl methacrylate
	ation 94 % /14d (not defined) (OECD 301
mation available. able.	lity in soil No further relevant information Its of PBT and vPvB assessment lot applicable.
mation available. able.	ccumulative potential No further relevant lity in soil No further relevant information lts of PBT and vPvB assessment



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· 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 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. 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 • 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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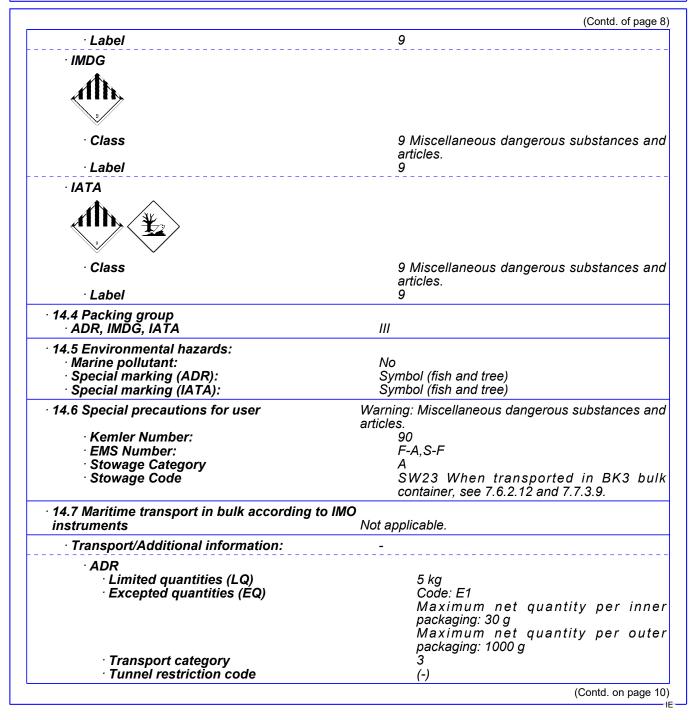
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IMDG Limited quantities (LQ) Excepted quantities (EQ)	5 kg Code: E1 Maximum net quantity per inner packaging: 30 g Maximum net quantity per outer packaging: 1000 g
· UN "Model Regulation":	UN 3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (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

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.

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

TI	hese data are based on our present knowledge. However, they shall not constitute a guarantee for any
sp	pecific 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: 22.02.2021
	· Version number of previous version: 3
	· 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) (Contd. on page 11)



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DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (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 Skin Inti. 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.**