

Page 1/10

Revision: 11.07.2022

Tel.: +49 (0)800 4372522

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

Printing date 11.07.2022

Version number 4 (replaces version 3)

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

- · 1.1 Product identifier
 - · Trade name: PalaXpress 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)

· 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

Aquatic Chronic 2 H411 (M=10) 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

- · Signal word Void
- · Hazard statements

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

· Additional information:

Contains methyl methacrylate, dibenzoyl peroxide. May produce an allergic reaction.

- · 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

· Dangerous components:	
CAS: 72846-00-5 1-benzyl-5-phenylbarbituric acid	≥0-≤5%
EINECS: 276-940-2	
CAS: 80-62-6 methyl methacrylate	≥0.1-<1%
EINECS: 201-297-1 Flam. Liq. 2, H225 Skin Irrit. 2, H315; Skin Sens. 1, H317; STOT SE 3, H335	

(Contd. on page 2)



Page 2/10

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

Printing date 11.07.2022

Version number 4 (replaces version 3)

Revision: 11.07.2022

Trade name: PalaXpress powder

	(0	contd. of page 1)
	dibenzoyl peroxide	≥0.25-<1%
EINECS: 202-327-6	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	

[·] 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.
 - · 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 Avoid contact with eves and skin.
- 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

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).

(Contd. on page 3)



Page 3/10

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

Printing date 11.07.2022 Version number 4 (replaces version 3) Revision: 11.07.2022

Trade name: PalaXpress powder

· 7.3 Specific end use(s) No further relevant information available.

(Contd. of page 2)

SECTIO	N 8: Exposu	re conti	rols/persona	al protection	
8.1 Contro	ol parameters				
•			es that require	monitoring at the workplace:	
	ethyl methacry				
		n value: 50 ppn Sens	n value: 100 ppm n value: 50 ppm ens		
		m value: 100 ppm n value: 50 ppm			
94-36-0 dibenzoyl peroxide					
OEL (Ireland) Long-tern Sens		n value: 5 mg/n	1 ³		
· DNI	ELs				
80-62-6 m	ethyl methacry	/late			
Oral	general popula	tion, long	term, systemic	8.2 mg/Kg (not defined)	
Dermal	worker industri	al, long te	rm, 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, i	local	416 mg/m3 (not defined)	
	worker industri	ial, long term, systemic		348.4 mg/m3 (not defined)	
	worker industri	al, long te	rm, local	208 mg/m3 (not defined)	
	general popula	tion, acute	e, local	208 mg/m3 (not defined)	
	general popula	tion, long	term, systemic	74.3 mg/m3 (not defined)	
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)	
· PNE	Cs				
80-62-6 m	ethyl methacry	/late			
freshwater	•		0.94 mg/l (not	defined)	
marine wa	ter		0.094 mg/l (not defined)		
sewage tre	eatment plant		10 mg/l (not defined)		
sediment,	dry weight, fres	hwater	10.2 mg/Kg (n	ot defined)	
sediment,	dry weight, mar	ine water	0.102 mg/Kg (l	not defined)	
soil, dry w	eight		1.48 mg/Kg (n	ot defined)	
94-36-0 di	benzoyl perox	ide			
freshwater	-		0.00002 mg/l (not defined)	
marine wa	ter		0.000002 mg/l	(not defined)	
sewage tre	eatment plant		0.35 mg/l (not defined)		
sediment,	dry weight, fres	hwater	0.013 mg/Kg (not defined)		
	dry weight, mar	ine water			
soil, dry w	-:		0.003 mg/Kg (not defined)	

• Additional information: The lists that were valid during the compilation were used as basis.

(Contd. on page 4)



Page 4/10

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

Printing date 11.07.2022 Version number 4 (replaces version 3) Revision: 11.07.2022

Trade name: PalaXpress powder

(Contd. of page 3)

· 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

The usual precautionary measures should be adhered to in handling the chemicals.

- 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: According to product specification

· 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: Not determined.
Upper: Not determined.
Flash point: Not applicable
Decomposition temperature: Not determined.

SADT

· **pH** Not applicable.

· Viscosity:

Kinematic viscosity

dynamic:

Not applicable.

Not applicable.

Solubility

Water: Insoluble

(Contd. on page 5)



Page 5/10

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

Printing date 11.07.2022 Version number 4 (replaces version 3) Revision: 11.07.2022

Trade name: PalaXpress powder

(Contd. of page 4)

Partition coefficient n-octanol/water (log

Not determined. Steam pressure: Not applicable.

Density and/or relative density

· Density Not determined Relative density Not determined. · Vapour density Not applicable.

Particle characteristics See item 3.

· 9.2 Other information

No further relevant information available.

Appearance:

Form: Powder

· 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

explosive powder/air mixtures is possible.

· Solvent content:

· Solids content: 100.0 %

Change in condition

Evaporation rate Not applicable.

· Information with regard to physical hazard classes

Void · Explosives Flammable gases Void Void · Aerosols · 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

SECTION 10: Stability and reactivity

· Desensitised explosives

- · 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.

Void

- · 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



Page 6/10

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

Printing date 11.07.2022 Version number 4 (replaces version 3) Revision: 11.07.2022

Trade name: PalaXpress powder

(Contd. of page 5)

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:					
72846-00-	5 1-benzy	l-5-phenylbarbituric acid			
Oral	LD50	500 mg/kg (ATE)			
		500 mg/kg (rat) (OECD 423)			
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)			
94-36-0 dibenzoyl peroxide					
Oral	LD0	>2,000 mg/kg (mouse) (OECD 401)			
Inhalative	LC0/4h	24.3 ppm (rat) (OECD 403)			

- 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 Based on available data, the classification criteria are not met.
- 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

•	1	2.	1	T	OX	C	ity	
---	---	----	---	---	----	---	-----	--

· 12.1 OXICITY	,
· Aquatic t	oxicity:
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)
80-62-6 meth	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)

(Contd. on page 7)



Page 7/10

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

Printing date 11.07.2022 Version number 4 (replaces version 3) Revision: 11.07.2022

Trade name: PalaXpress powder

		(Contd. of page 6)
	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)
	· 12.2 Persiste	nce and degradability
	72846-00-5 1	-benzyl-5-phenylbarbituric acid
	Biodegradation	on 29.1 % /29d (not defined) (OECD 301D)
	80-62-6 meth	nyl methacrylate
	Biodegradation	on 94 % /14d (not defined) (OECD 301C)
	94-36-0 dibe	nzoyl peroxide
Ī	Biodegradation	on 71 % /28d (not defined) (OECD 301D)

- · 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.

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.

(Contd. on page 8)



Page 8/10

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

Printing date 11.07.2022

Version number 4 (replaces version 3)

Trade name: PalaXpress powder

(Contd. of page 7)

Revision: 11.07.2022

	on
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 peroxide)
· IMDG	ENVIRONMENTALLY HAZARDOU SUBSTANCE, SOLID, N.O.S. (dibenzo peroxide), MARINE POLLUTANT
·IATA	ENVIRONMENTALLY HAZARDOU 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 substance and articles.
· Label	9
Class	 Miscellaneous dangerous substances as articles.
· Label	9
14.4 Packing group · ADR, IMDG, IATA	III
14.5 Environmental hazards:	
. Marina nallutanti	No
· Marine pollutant:	Symbol (fish and trac)
•	Symbol (fish and tree) Symbol (fish and tree)
· Special marking (ADR): · Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree) Symbol (fish and tree)
Special marking (ADR): Special marking (IATA):	Symbol (fish and tree) Symbol (fish and tree)
Special marking (ADR): Special marking (IATA): 14.6 Special precautions for user Kemler Number:	Symbol (fish and tree) Symbol (fish and tree) Warning: Miscellaneous dangerous substances al articles. 90
Special marking (ADR): Special marking (IATA): 14.6 Special precautions for user Kemler Number: EMS Number:	Symbol (fish and tree) Symbol (fish and tree) Warning: Miscellaneous dangerous substances a articles. 90 F-A,S-F
Special marking (ADR): Special marking (IATA): 14.6 Special precautions for user Kemler Number:	Symbol (fish and tree) Symbol (fish and tree) Warning: Miscellaneous dangerous substances al articles. 90
Special marking (ADR): Special marking (IATA): 14.6 Special precautions for user Kemler Number: EMS Number: Stowage Category	Symbol (fish and tree) Symbol (fish and tree) Warning: Miscellaneous dangerous substances a articles. 90 F-A,S-F A SW23 When transported in BK3 but container, see 7.6.2.12 and 7.7.3.9.



Page 9/10

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

Printing date 11.07.2022 Version number 4 (replaces version 3) Revision: 11.07.2022

Trade name: PalaXpress powder

(Contd. of page 8)

· ADR

Limited quantities (LQ)

Excepted quantities (ÉQ) Code: E1

Maximum net quantity per inner packaging:

5 kg

Maximum net quantity per outer packaging:

1000 g

· Transport category 3 Tunnel restriction code (-)

· Limited quantities (LQ) Excepted quantities (ÉQ) 5 kg 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
- 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.

- 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

(Contd. on page 10)



Page 10/10

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

Printing date 11.07.2022

Version number 4 (replaces version 3)

Revision: 11.07.2022

(Contd. of page 9)

Trade name: PalaXpress powder

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) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PRT: Persistent Ripaccumulative and Toxic

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 Acute Tox. 4: Acute toxicity – Category 4 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 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 * Data compared to the previous version altered.