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

Printing date 22.11.2022

Version number 4 (replaces version 3)

Revision: 22.11.2022

	1.1 Product identifier
	· Trade name: Pala Lab Putty 90 Base
	<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b> 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) Tel.: +49 (0)800 4372522
	<ul> <li>Informing department: E-Mail: msds@kulzer-dental.com</li> <li>1.4 Emergency telephone number: Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463</li> </ul>
	SECTION 2: Hazards identification
•	2.1 Classification of the substance or mixture
	<ul> <li>Classification according to Regulation (EC) No 1272/2008</li> <li>STOT RE 1 H372 Causes damage to the lung through prolonged or repeated exposure. Route c exposure: Inhalation.</li> </ul>
	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
	GHS08
	· Signal word Danger
	<ul> <li>Hazard-determining components of labelling: cristobalite Quartz (SiO2)</li> <li>Hazard statements</li> </ul>
	H372 Causes damage to the lung through prolonged or repeated exposure. Route o exposure: Inhalation. • <b>Precautionary statements</b>
	P260 Do not breathe dust. P264 Wash thoroughly after handling. P314 Get medical advice/attention if you feel unwell.
•	2.3 Other hazards - • Results of PBT and vPvB assessment • PBT: Not applicable.
	<b>vPvB:</b> Not applicable.

8.2 Mixtures · Description: -

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<sup>·</sup> Dangerous components:				
CAS: 14464-46-1 EINECS: 238-455-4	cristobalite	STOT RE 1, H372	<i>≥</i> 50- <i>≤</i> 75%	
CAS: 14808-60-7 EINECS: 238-878-4	Quartz (SiO2)	STOT RE 1, H372	10-25%	
· Additional infor	mation For the wording of the listed hazard ph	rases refer to section 1	16.	

· 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.
- 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. Use fire fighting measures that suit the environment.

- 5.2 Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- 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 contact with eyes and skin.
   6.2 Environmental precautions: Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil.
- 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (diatomite, universal binders, for small amounts tissues).

• 6.4 Reference to other sections See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for information on disposal.

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SECTIO	N 7: Handling and s	storage		
<b>7.1 Preca</b> Wear prote Ensure go Provide su	utions for safe handling ective equipment. Keep u od ventilation/exhaustion uction extractors if dust is	nprotected pers at the workplace formed.		
7.2 Condi Storag Req Info Fur	tions for safe storage, i e juirements to be met by	ncluding any i v storerooms a in one commo storage condit	ncompatibilities nd containers: No special requirements. n storage facility: Not required. ions: None.	
SECTIO	N 8: Exposure cont	rale/paraan	al protoction	
Not req · <b>DNI</b>		oxane		
Oral			3.7 mg/Kg (not defined)	
Inhalative	worker industrial, long te	erm, systemic	73 mg/m3 (not defined)	
	worker industrial, long te	erm, local	73 mg/m3 (not defined)	
	general population, long	-	- , ,	
	general population, long	term, local	13 mg/m3 (not defined)	
· PNI	ECs			
556-67-2 (	octamethylcyclotetrasil	oxane		
freshwater		0.0015 mg/l (n	,	
marine wa	ter	0.00015 mg/l (	,	
-	eatment plant	10 mg/l (not de		
	dry weight, freshwater	3 mg/Kg (not d		
	dry weight, marine water		t defined) valid during the compilation were used as basis	
8.2 Expos Individ Ger The Bre Har Che recc	ture controls lual protection measure neral protective and hygo usual precautionary mea athing equipment: Filten ad protection ock protective gloves prior ommended Material of gloves The selection of the suit	es, such as per gienic measure asures should b r P3. r to each use fo table gloves do	<b>sonal protective equipment</b> s e adhered to in handling the chemicals. r their proper condition. hes not only depend on the material, but also	
			manufacturer to manufacturer. As the product sistance of the glove material can not be	



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(Contd. of page 3) 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 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 Fluid · Colour: Blue · Smell: Recognisable Odour threshold: Not determined. Not determined · Melting point/freezing point: · Boiling point or initial boiling point and 2230 °C boiling range · Flammability Not applicable. · Lower and upper explosion limit Lower: Not determined. Not determined. · Upper: >130 °C · Flash point: · Decomposition temperature: Not determined. SADT Not determined. pН Viscosity: · Kinematic viscosity Not determined. Not determined. · dynamic: Solubility Water: Not miscible or difficult to mix · Partition coefficient n-octanol/water (log Not determined. value) Steam pressure: Not determined. Density and/or relative density · Density at 20 °C 1.77 g/cm3 Not determined. Relative density · Vapour density Not determined. · 9.2 Other information No further relevant information available. · Appearance: Form: Pastv · Important information on protection of health and environment, and on safety. · Self-inflammability: Product is not selfigniting. Explosive properties: Product is not explosive. Change in condition · Evaporation rate Not determined. (Contd. on page 5)



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· Information with regard to physical hazard		
classes		
· Explosives	Void	
· Flammable gases	Void	
· Aerosols	Void	
· Oxidising gases	Void	
<sup>.</sup> 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

· Additional information: -

		hazard classes as defined in Regulation (EC) No 1272/2008 ased on available data, the classification criteria are not met.		
· LD/	LC50 valu	es that are relevant for classification:		
68083-19-	2 Siloprer	n U 1 dental		
Oral	LD50	>5,000 mg/kg (rat)		
1317-65-3	317-65-3 calcium carbonate			
Oral	LD50	>2,000 mg/kg (rat) (OECD 420)		
Dermal	LD50	>2,000 mg/kg (rat) (OECD 402)		
Inhalative	LC0/4h	>3 mg/L (rat) (OECD 403)		
556-67-2 octamethylcyclotetrasiloxane				
Oral	LD50	>4,800 mg/kg (rat) (OECD 401)		
Dermal	LD50	>2,375 mg/kg (rat) (OECD 402)		
Inhalative	LC50/4 h	36 mg/l (rat) (OECD 403)		
· Skin c · Seriou	orrosion/i s eye dan	rritation Based on available data, the classification criteria are not met. hage/irritation Based on available data, the classification criteria are not met. (Contd. on page		



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	Germ cel Carcinog Reproduc STOT-sin STOT-rep Causes c Inhalation Aspiratio 11.2 Informa	(Contd. of page 5) bry or skin sensitisation Based on available data, the classification criteria are not met. I mutagenicity Based on available data, the classification criteria are not met. enicity Based on available data, the classification criteria are not met. ctive toxicity Based on available data, the classification criteria are not met. gle exposure Based on available data, the classification criteria are not met. beated exposure lamage to the lung through prolonged or repeated exposure. Route of exposure: n hazard Based on available data, the classification criteria are not met. tion on other hazards e disrupting properties		
	None of the i	ngredients is listed.		
_				
	SECTION	12: Ecological information		
	· 12.1 Toxicity	/		
	· Aquatic t	oxicity:		
	1317-65-3 са	lcium carbonate		
	EC50/72h	>200 mg/l (algae)		
	EC50/48h	>1,000 mg/l (daphnia)		
	LC50/96h	>10,000 mg/l (fish)		
	ErC50 / 72 h	>14 mg/l (algae) (OECD 201)		
	NOEC / 72h	14 mg/l (algae) (OECD 201)		
	ErC10/72h	>14 mg/L (algae) (OECD 201)		
	556-67-2 oct	amethylcyclotetrasiloxane		
	EC50/21d	>0.015 mg/L (daphnia) (EPA OTS 797.1330)		
	EC50/48h	>0.015 mg/l (daphnia) (EPA OTS 797.1300)		
	LC50/96h	>0.022 mg/l (fish) (EPA OTS 797.1400)		
	NOEC / 91d	≥0.0044 mg/l (fish)		
	NOEC / 21d	≥0.015 mg/l (daphnia) (EPA OTS 797.1330)		
	NOEC / 96h			
		≥0.022 mg/l (fish) (EPA OTS 797.1400)		
	NOEC / 48h			
	ErC50/ 96h	>0.022 mg/L (algae) (EPA OTS 797.1050)		
	· 12.2 Persistence and degradability			
	556-67-2 octamethylcyclotetrasiloxane			
	Biodegradatio	on 3.7 % /29d (not defined) (OECD 310)		
	· 12.3 Bioaccu	Imulative potential		
	556-67-2 oct	amethylcyclotetrasiloxane		
		tion factor (BCF) 12,400 (not defined)		
	12.5 Results PBT: Not vPvB: No 12.6 Endocr	t applicable. i <b>ne disrupting properties</b>		
	For information	on on endocrine disrupting properties see section 11.		
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#### 12.7 Other adverse effects

Additional ecological information:

· General notes: Avoid transfer into the environment.

## SECTION 13: Disposal considerations

## · 13.1 Waste treatment methods

· Recommendation

Disposal must be made according to official regulations. Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

## Uncleaned packagings:

Recommendation:

Disposal must be made according to official regulations. Non contaminated packagings can be used for recycling.

SECTION 14: Transport information	n	
•	-	
14.1 UN number or ID number ADR, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void	
<ul> <li>14.3 Transport hazard class(es)</li> </ul>		
ADR, ADN, IMDG, IATA Class	Void	
14.4 Packing group ADR, IMDG, IATA	Void	
14.5 Environmental hazards: Marine pollutant:	No	
<ul> <li>14.6 Special precautions for user</li> </ul>	Not applicable.	
<ul> <li>14.7 Maritime transport in bulk according IMO instruments</li> </ul>	to Not applicable.	
· Transport/Additional information:	-	
· UN "Model Regulation":	Void	

## SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No further relevant information available.

· 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.

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Relevant phrases
 H372 Causes damage to organs through prolonged or repeated exposure.
 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)
 DNEL: Derived No-Effect Level (UK REACH)
 PNEC: Predicted No-Effect Concentration (UK REACH)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
 \* Data compared to the previous version altered.
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