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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

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

- · 1.1 Product identifier
 - · Trade name: Pala Lab Putty 90 Base
- · 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 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

- · 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

STOT RE 1 H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

- · 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



GHS08

- · Signal word Danger
- · Hazard-determining components of labelling:

cristobalite

Quartz (SiO2)

Hazard statements

H372 Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

Precautionary statements

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.
 - · vPvB: Not applicable.

SECTION 3: Composition/information on ingredients

- · 3.2 Mixtures
 - · Description: -

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· Dangerous com	ponents:		
CAS: 14464-46-1 EINECS: 238-455-4		STOT RE 1, H372	≥50-≤75%
CAS: 14808-60-7 EINECS: 238-878-4		STOT RE 1, H372	10-25%

[·] 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.

If skin irritation continues, consult a doctor.

After eve 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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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Wear protective equipment. Keep unprotected persons away.

Ensure good ventilation/exhaustion at the workplace.

Provide suction extractors if dust is formed.

- · 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: None.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Components with critical values that require monitoring at the workplace:
14464-46-1 cristobalite
OEL (Ireland) Long-term value: 0.1 mg/m³

· DNELs

556-67-2 octamethylcyclotetrasiloxane

Oral	general population, long term, systemic	3.7 mg/Kg (not defined)
Inhalative	worker industrial, long term, systemic	73 mg/m3 (not defined)
	worker industrial, long term, local	73 mg/m3 (not defined)
	general population, long term, systemic	13 mg/m3 (not defined)
	general population, long term, local	13 mg/m3 (not defined)

· PNECs

556-67-2 octamethylcyclotetrasiloxane

	0.0015 mg/l (not defined)
marine water	0.00015 mg/l (not defined)
	10 mg/l (not defined)
sediment, dry weight, freshwater	3 mg/Kg (not defined)
sediment, dry weight, marine water	0.3 mg/Kg (not defined)

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

· 8.2 Exposure controls

· 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: Filter P3.
- · Hand protection

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

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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 stateColour:Blue

Smell: Recognisable
 Odour threshold: Not determined.
 Melting point/freezing point: Not determined

· Boiling point or initial boiling point and

boiling range 2230 °C
· Flammability Not applicable.
· Lower and upper explosion limit

· Lower: Not determined.
· Upper: Not determined.

Flash point: >130 °C

Decomposition temperature: Not determined.

SADT

· **pH** Not determined.

Viscosity:

* Kinematic viscosity Not determined. **

**Open April 1985 **

**Open April 1985 **

**Not determined. **

**Prince April 1985 **

Solubility

• Water: Not miscible or difficult to mix

Partition coefficient n-octanol/water (log

value) Not determined. Steam pressure: Not determined.

Density and/or relative density

Density at 20 °C
 Relative density
 Vapour density
 Not determined.
 Not determined.

• 9.2 Other information No further relevant information available.

· Appearance:

Form: Pasty

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.

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· Information with regard to physical hazard classes	
Explosives	Void
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
- - · 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.

· LD/LC50 values that are relevant for classification:	
68083-19-2 Silopren U 1 dental	
LD50	>5,000 mg/kg (rat)
1317-65-3 calcium carbonate	
LD50	>2,000 mg/kg (rat) (OECD 420)
LD50	>2,000 mg/kg (rat) (OECD 402)
LC0/4h	>3 mg/L (rat) (OECD 403)
556-67-2 octamethylcyclotetrasiloxane	
LD50	>4,800 mg/kg (rat) (OECD 401)
LD50	>2,375 mg/kg (rat) (OECD 402)
LC50/4 h	36 mg/l (rat) (OECD 403)
	2 Siloprer LD50 calcium o LD50 LD50 LC0/4h cctamethy LD50 LD50

[·] Skin corrosion/irritation Based on available data, the classification criteria are not met.

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[·] Serious eye damage/irritation Based on available data, the classification criteria are not met.



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- 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

Causes damage to the lung through prolonged or repeated exposure. Route of exposure: Inhalation.

- 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.

1317-65-3 calcium carbonate

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

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 octamethylcyclotetrasiloxane		
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 (algae) (EPA OTS 797.1050)	
	≥0.022 mg/l (fish) (EPA OTS 797.1400)	
NOEC / 48h	≥0.015 mg/l (daphnia) (EPA OTS 797.1300)	
ErC50/ 96h	>0.022 mg/L (algae) (EPA OTS 797.1050)	

12.2 Persistence and degradability

556-67-2 octamethylcyclotetrasiloxane

Biodegradation 3.7 % /29d (not defined) (OECD 310)

· 12.3 Bioaccumulative potential

556-67-2 octamethylcyclotetrasiloxane

Bloconcentration factor (BCF) 12,400 (not defined)

- · 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.

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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.

· 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.

44.41111 1 15 1		
14.1 UN number or ID number · ADR, ADN, IMDG, IATA	Void	
14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void	
14.3 Transport hazard class(es)		
ADR, ADN, IMDG, IATA Class	Void	
14.4 Packing group · ADR, IMDG, IATA	Void	
14.5 Environmental hazards: • Marine pollutant:	No	
14.6 Special precautions for user	Not applicable.	
14.7 Maritime transport in bulk according IMO instruments	y 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.

· REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3, 70

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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.

- · REGULATION (EU) 2019/1148
 - Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

no information available

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

no information available

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· 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

H372 Causes damage to organs through prolonged or repeated exposure.

- Date of previous version: 22.11.2022
- Version number of previous version: 3
- Abbreviations and acronyms:

Abbreviations and actionymis.

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 (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 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

* Data compared to the previous version altered.