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

Printing date 14.04.2020

Version number 4

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	oduct identifier
· Tra	de name: Optosil P Plus
	levant identified uses of the substance or mixture and uses advised against her relevant information available.
[.] Арр	plication of the substance / the mixture Dental impression material
• Maı Kulz	tails of the supplier of the safety data sheet nufacturer/Supplier: zer GmbH pziger Straße 2, 63450 Hanau (Germany) Tel.: +49 (0)800 4372522
	orming department: E-Mail: msds@kulzer-dental.com pergency telephone number: Emergency CONTACT (24-Hour-Number): +49 (0)6132-84463
SECT	TON 2: Hazards identification
· Cla	ssification of the substance or mixture ssification according to Regulation (EC) No 1272/2008 DT RE 1 H372 Causes damage to organs through prolonged or repeated exposure.
• Lab The	bel elements belling according to Regulation (EC) No 1272/2008 product is classified and labelled according to the CLP regulation. Hazard pictograms
•	
	GHS08
	Signal word Danger
(Hazard-determining components of labelling: Cristobalite Hazard statements
 - 	H372 Causes damage to organs through prolonged or repeated exposure. Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray.
l I	P264 Wash thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P314 Get medical advice/attention if you feel unwell.
I	P501 Dispose of contents/container in accordance with local/regional/national/internationa regulations. h er hazards -
	sults of PBT and vPvB assessment PBT: Not applicable.

· 3.2 Chemical characterisation: Mixtures · Description: -

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· Dangerous components:		
CAS: 14464-46-1	Cristobalite STOT RE 1, H372	25-50%
CAS: 540-97-6 EINECS: 208-762-8 Reg.nr.: 01-2119717435-42-xxxx	Dodecamethylcyclohexasiloxane Acute Tox. 4, H302; Acute Tox. 4, H312	<1%
CAS: 541-02-6	2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane	<1%
CAS: 556-67-2 EINECS: 209-136-7 Reg.nr.: 2119529238-36-xxxx	octamethylcyclotetrasiloxane Flam. Liq. 3, H226 Repr. 2, H361f Aquatic Chronic 4, H413	<1%
· SVHC		
540-97-6 Dodecamethylcyclohex	asiloxane	
541-02-6 2,2,4,4,6,6,8,8,10,10-de	ecamethylcyclopentasiloxane	
556-67-2 octamethylcyclotetrasil	oxane	
Additional information For th	e wording of the listed hazard phrases refer to section	16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures

• 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 Use fire fighting measures that suit the environment.

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

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions: Prevent material from reaching sewage system, holes and cellars.

6.3 Methods and material for containment and cleaning up:

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

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Send for recovery or disposal in suitable containers.

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.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Please observe the additional instructions in the product's instructions for use. • 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:

9005-25-8 Starch

WEL (Great Britain) Long-term value: 10* 4** mg/m³ *total inhalable **respirable

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

· 8.2 Exposure controls

Personal protective equipment

General protective and hygienic measures

Wash hands during breaks and at the end of the work.

- Breathing equipment: Use breathing protection against the effects of fumes/dust/aerosol.
- 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 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 protection: Safety glasses

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· Body protection: Light weight protective clothing

9.1 Information on basic physical and · General Information	d chemical properties	
· Appearance:		
Form:	Pasty	
· Colour:	Yellow	
Smell:	Odourless	
· Odour threshold:	Not determined.	
· pH-value:	Not determined.	
Change in condition		
• Melting point/freezing point:	Not determined	
Initial boiling point and boiling	-	
· Flash point:	Not applicable	
 Inflammability (solid, gaseous) 	Not applicable.	
 Decomposition temperature: 	Not determined.	
· Self-inflammability:	Product is not selfigniting.	
• Explosive properties:	Product is not explosive.	
	Not determined.	
 Critical values for explosion: 		
· Lower:	Not determined.	
· Upper:	Not determined.	
· Steam pressure:	Not determined.	
· Density at 20 °C	1.5 g/cm³	
· Relative density	Not determined.	
· Vapour density	Not determined.	
Evaporation rate	Not determined.	
 Solubility in / Miscibility with 		
· Water:	Not miscible or difficult to mix	
· Partition coefficient: n-octanol/wa	ter: Not determined.	
· Viscosity:		
dynamic:	Not determined.	
· kinematic:	Not determined. No further relevant information available.	

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

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· Additional information: -

SECTIO	N 11: To	exicological information			
		toxicological effects			
	-	ased on available data, the classification criteria are not met.			
		es that are relevant for classification:			
540-97-6 Dodecamethylcyclohexasiloxane					
Oral	LD50	2,000 mg/kg (rat)			
Dermal	LD50	2,000 mg/kg (rat)			
		8,8,10,10-decamethylcyclopentasiloxane			
	LD50	>2,000 mg/kg (rab)			
Inhalative	LC50/4 h	8.67 mg/l (rat)			
		8.67 mg/l (rabbit)			
		/lcyclotetrasiloxane			
Oral	LD50	1,700 mg/kg (mouse)			
D	1050	4,800 mg/kg (rat)			
Dermal	LD50	>2,400 mg/kg (rat)			
		36 mg/l (rat)			
	mary irrita Skin corro	nt effect: sion/irritation Based on available data, the classification criteria are not met.			
		e damage/irritation			
I	Based on a	available data, the classification criteria are not met.			
		or skin sensitisation			
Based on available data, the classification criteria are not met. CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)					
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					
540-97-6 Dodecamethylcyclohexasiloxane					
Oral NOA	Oral NOAEL(C) 1,000 mg/kg (rat)				
		available data, the classification criteria are not met.			
		exposure Based on available data, the classification criteria are not met.			
· STC Cau	Ji-repeate Ises dama	e d exposure ge to organs through prolonged or repeated exposure.			
· Ası	biration ha	izard Based on available data, the classification criteria are not met.			
0=0=10					

	SECTION	12: Ecological information
	· 12.1 Toxicit	/
	· Aquatic t	oxicity:
Γ		decamethylcyclohexasiloxane
Γ	EC50/72h	>0.002 mg/l (algae) (OECD 201)
	NOEC / 21d	0.0046 mg/l (daphnia)
	NOEC / 72h	>0.002 mg/l (algae) (OECD 201)
Γ	541-02-6 2,2	,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane
	EC50/48h	>0.0029 mg/l (daphnia) (OECD 202)
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LC50/96h >0.0016 mg/l (fish)					
NOEC / 21d >0.0015 mg/l (daphnia) (OECD 211)					
• 12.2 Persistence and degradability					
541-02-6 2,2,4,4,6,6,8,8,10,10-decameth	ylcyclopentasiloxane				
Biodegradation 0.14 % (nd)					
556-67-2 octamethylcyclotetrasiloxane					
Biodegradation 3.7 % (nd)					
· 12.3 Bioaccumulative potential					
	541-02-6 2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane				
Bloconcentration factor (BCF) 7,060 (fish)					
	556-67-2 octamethylcyclotetrasiloxane				
Bloconcentration factor (BCF) 12.4 (fish)					
12.4 Mobility in soil No further relevant ir	nformation available.				
Additional ecological information: General notes: Not known to be ha	azardous to water				
· 12.5 Results of PBT and vPvB assessm					
• PBT: Not applicable.					
 • vPvB: Not applicable. • 12.6 Other adverse effects No further rel 	la vant information available				
T2.6 Other adverse enects no futtier ref					
SECTION 13: Disposal considera	ations				
 • 13.1 Waste treatment methods • Recommendation Must not be disposed of together with system. Disposal must be made according to or 	household garbage. Do not allow product to reach sewage fficial regulations				
· European waste catalogue	molar regulationo.				
18 01 07 chemicals other than those men	tioned in 18 01 06				
• Uncleaned packagings: • Recommendation: Disposal must be made according t Non contaminated packagings can					
SECTION 14: Transport informat	tion				
· 14.1 UN-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				
Class 14.4 Packing group ADR, IMDG, IATA	Void Void				

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· 14.5 Environmental hazards:	Not applicable.	
 14.6 Special precautions for user 	Not applicable.	
 14.7 Transport in bulk according to Anno Marpol and the IBC Code 	ex II of 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

- · Directive 2012/18/EU
 - Named dangerous substances ANNEX I None of the ingredients is listed. • REGULATIÓN (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

· National regulations

- · Other regulations, limitations and prohibitive regulations
 - Substances of very high concern (SVHC) according to REACH, Article 57
- 540-97-6 Dodecamethylcyclohexasiloxane
- 541-02-6 2,2,4,4,6,6,8,8,10,10-decamethylcyclopentasiloxane

556-67-2 octamethylcyclotetrasiloxane

· 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

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H312 Harmful in contact with skin.
- H361f Suspected of damaging fertility.
- H372 Causes damage to organs through prolonged or repeated exposure. H413 May cause long lasting harmful effects to aquatic life.

Abbreviations and acronyms:

ADR: Accord européen sur le transport 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 Šubstances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity - oral – Category 4 Repr. 2: Reproductive toxicity – Category 2 STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

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(Contd. of page 7) Aquatic Chronic 4: Hazardous to the aquatic environment - long-term aquatic hazard – Category 4 • * **Data compared to the previous version altered.**

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