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Revision: 23.01.2025

Safety data sheet according to UK REACH

Printing date 23.01.2025

Version number 6 (replaces version 5)

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

- · 1.1 Product identifier
 - · Trade name: Optosil Comfort
- · 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 Dental impression material
- · 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

 The product is not classified, according to the GB CLP regulation.
- · 2.2 Label elements
 - · Labelling according to Regulation (EC) No 1272/2008 Void
 - · Hazard pictograms Void
 - · Signal word Void
 - · Hazard statements Void
- · 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: -

· Dangerous components:		
CAS: 540-97-6 EINECS: 208-762-8 Reg.nr.: 01-2119717435-42-xxxx	Dodecamethylcyclohexasiloxane Non-classified vPvB substance. Non-classified PBT substance. Substance identified as having endocrine disrupting properties (II).	<1%
EINECS: 209-136-7 Index number: 014-018-00-1 Reg.nr.: 01-2119529238-36-xxxx	octamethylcyclotetrasiloxane Flam. Liq. 3, H226 Repr. 2, H361f Aquatic Chronic 1, H410 (M=10) PBT; vPvB	<1%
CAS: 541-02-6 EINECS: 208-764-9 Reg.nr.: 01-2119511367-43-xxxx	Decamethylcyclopentasiloxane Non-classified vPvB substance. Non-classified PBT substance. Substance identified as having endocrine disrupting properties (II).	<1%

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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
 - After inhalation Supply fresh air; consult doctor in case of symptoms.
 - After skin contact 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 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 eyes and skin.

Wear protective clothing.

- 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.

Send for recovery or disposal in suitable containers.

· 6.4 Reference to other sections

No dangerous materials are released.

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

No special measures required.

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

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- 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.

	ol parameters	
	onents with critical values that require	e monitoring at the workplace:
9005-25-8		
WEL (Gre	at Britain) Long-term value: 10* 4** mg/r *total inhalable **respirable	ກ³
· DN	ELs	
540-97-6 l	Dodecamethylcyclohexasiloxane	
Oral	general population, acute, systemic	1.7 mg/Kg (not defined)
	general population, long term, systemic	1.7 mg/Kg (not defined)
Inhalative	worker industrial, acute, local	6.1 mg/m3 (not defined)
	worker industrial, long term, systemic	11 mg/m3 (not defined)
	worker industrial, long term, local	1.22 mg/m3 (not defined)
	general population, acute, local	1.5 mg/m3 (not defined)
	general population, long term, systemic	2.7 mg/m3 (not defined)
	general population, long term, local	0.3 mg/m3 (not defined)
556-67-2	octamethylcyclotetrasiloxane	
Oral	general population, long term, systemic	,
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	, ,
	general population, long term, local	13 mg/m3 (not defined)
541-02-6 l	Decamethylcyclopentasiloxane	
Oral	general population, long term, systemic	5 mg/Kg (not defined)
Inhalative	worker industrial, long term, systemic	97.3 mg/m3 (not defined)
	worker industrial, long term, local	24.2 mg/m3 (not defined)
	general population, long term, systemic	17.3 mg/m3 (not defined)
	general population, long term, local	4.3 mg/m3 (not defined)
· PNI	ECs	

sediment, dry weight, freshwater 13 mg/Kg (not defined)

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sediment, dry weight, marine water	1.3 mg/Kg (not defined)
556-67-2 octamethylcyclotetrasile	oxane
freshwater	0.0015 mg/l (not defined)
marine water	0.00015 mg/l (not defined)
sewage treatment plant	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)
541-02-6 Decamethylcyclopentas	iloxane
freshwater	0.0012 mg/l (not defined)
marine water	0.00012 mg/l (not defined)
sewage treatment plant	10 mg/l (not defined)
sediment, dry weight, freshwater	11 mg/Kg (not defined)
sediment, dry weight, marine water	1.1 mg/Kg (not defined)

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

- · 8.2 Exposure controls
 - · Appropriate engineering controls No further data; see section 7.
 - Individual protection measures, such as personal protective equipment
 - General protective and hygienic measures

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

- · Breathing equipment: Not required.
- · 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 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
 Colour:
 Smell:
 Liquid
 Yellow
 Peppermint

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(Contd. of page 4) · Odour threshold: Not determined. Melting point/freezing point:
Boiling point or initial boiling point and Not determined boiling range Not determined · Flammability Not applicable. · Lower and upper explosion limit Lower: Not determined. Upper: Not determined. >101 °C · Flash point: Decomposition temperature: Not determined. SADT Not determined. ·pH · Viscosity: Kinematic viscosity Not determined. · dynamic: Not determined. 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 1.13 g/cm³ Not determined. Relative density · Vapour density 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 selfianiting. · Explosive properties: Product is not explosive. Not determined. · Solvent content: 0.2 % · Water: 62.1 % · Solids content: · Change in condition Not determined. Evaporation rate · 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

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· 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/	· LD/LC50 values that are relevant for classification:		
8042-47-5	8042-47-5 White mineral oil, petroleum		
Oral	Oral LD50 >5000 mg/kg (rat) (OECD 401)		
Dermal	LD50	>2000 mg/kg (rabbit) (OECD 402)	
Inhalative	LC0/4h	≥5 mg/L (rat) (OECD 403)	
540-97-6 I	540-97-6 Dodecamethylcyclohexasiloxane		
Oral	LD50	>2000 mg/kg (rat) (OECD 423)	
Dermal	LD50	>2000 mg/kg (rat) (OECD 402)	
556-67-2	556-67-2 octamethylcyclotetrasiloxane		
Oral	LD50	>4800 mg/kg (rat) (OECD 401)	
Dermal	LD50	>2375 mg/kg (rat) (OECD 402)	
Inhalative	LC50/4 h	36 mg/l (rat) (OECD 403)	
541-02-6 Decamethylcyclopentasiloxane			
Oral	Oral LD50 >5000 mg/kg (rat) (OECD 401)		
Dermal	LD50	>2000 mg/kg (rab) (OECD 402)	
. Drir	nary irrita	nt effect:	

- - 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.

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- 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

SECTION 12: Ecological information

>0.015 mg/L (daphnia) (OECD 211)

>0.0029 mg/l (daphnia) (OECD 202) >0.016 mg/l (fish) (OECD 204)

NOEC / 91d ≥0.014 mg/l (fish) (OECD 210) NOEC / 21d >0.0015 mg/l (daphnia) (OECD 211)

EC50/21d EC50/48h

LC50/96h

Oral NOAEL(C) 1000 mg/kg (rat)

- 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	
540-97-6 Dodecamethylcyclohexasiloxane	List II
541-02-6 Decamethylcyclopentasiloxane	List II
556-67-2 octamethylcyclotetrasiloxane	List II; III

SECTION	12: Ecological information
· 12.1 Toxicity	
· Aquatic t	oxicity:
8042-47-5 W	hite mineral oil, petroleum
LL50/96h	>100 mg/L (fish) (OECD 203)
	decamethylcyclohexasiloxane
	≥0.014 mg/l (fish) (OECD 210)
NOEC / 21d	0.0046 mg/l (daphnia) (OECD 211)
ErC50 / 72 h	>0.002 mg/l (algae) (OECD 201)
NOEC / 72h	≥0.002 mg/l (algae) (OECD 201)
	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 (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)
541-02-6 Dec	camethylcyclopentasiloxane

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NOEC / 96h	≥0.012 mg/l (alga	, ,	
	≥0.016 mg/l (fish	n) (OECD 204)	
NOEC / 48h	≥0.0029 mg/l (da	aphnia) (OECD 202)	
EC50/96h	>0.012 mg/L (alg	gae) (OECD 201)	
· 12.2 Persiste	ence and degrad	lability	
	decamethylcyclo		
Biodegradati	on 4.47 % /28d (r	not defined) (OECD 310)	
556-67-2 oct	amethylcycloteti	rasiloxane	
Biodegradati	on 3.7 % /29d (no	ot defined) (OECD 310)	
	camethylcyclope		
Biodegradati	on 0.14 % /28d (r	not defined) (OECD 310)	
· 12.3 Bioaccı	umulative potent	tial	
	decamethylcyclo		
		1160 (not defined)	
	amethylcycloteti		
	, ,	12400 (not defined)	
	camethylcyclope		
Bloconcentra	ntion factor (BCF)	7060 (fish)	
		7060 (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.

- · 12.7 Other adverse effects
 - Additional ecological information:
 - · General notes:

Do not allow product to reach ground water, water bodies or sewage system.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Danger to drinking water if even small quantities leak into soil.

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.

- · Uncleaned packagings:
 - Recommendation:

Disposal must be made according to official regulations.

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Non contaminated packagings can be used for recycling.

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SECTION 14: Transport informatio	••	
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 instruments	to IMO 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.
 - · Poisons Act
 - · Regulated explosives precursors

None of the ingredients is listed.

Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

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

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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.

H361f Suspected of damaging fertility.

H410 Very toxic to aquatic life with long lasting effects.

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 (ÚK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Repr. 2: Reproductive toxicity – Category 2
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

* Data compared to the previous version altered.