

Page 1/9

Revision: 16.11.2022

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

Printing date 16.11.2022

Version number 5 (replaces version 4)

## 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)

· 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

Aguatic Chronic 3 H412 Harmful to aguatic 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 GB CLP regulation.

- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

P280 Wear protective gloves / protective clothing.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- · 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: -

<ul> <li>Dangerous component</li> </ul>	s:
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CAS: 540-97-6 Dodecamethylcyclohexasiloxane EINECS: 208-762-8 Non-classified vPvB substance. Reg.nr.: 01-2119717435-42-xxxx Non-classified PBT substance.

Substance identified as having endocrine disrupting

properties (II).

(Contd. on page 2)

<1%



Page 2/9

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

Printing date 16.11.2022 Version number 5 (replaces version 4) Revision: 16.11.2022

#### Trade name: Optosil Comfort

	(Contd. of	page 1)
CAS: 556-67-2	octamethylcyclotetrasiloxane	<1%
EINECS: 209-136-7	Flam. Lig. 3, H226	
EINECS: 209-136-7 Reg.nr.: 01-2119529238-36-xxxx	Repr. 2, H361f	
-	Aquatic Chronic 1, H410 (M=10)	
	PBT; vPvB	
CAS: 541-02-6	Decamethylcyclopentasiloxane	<1%
EINECS: 208-764-9	Non-classified vPvB substance.	
Reg.nr.: 01-2119511367-43-xxxx	Non-classified PBT substance.	
· ·	Substance identified as having endocrine disrupting	
	properties (II).	

<sup>·</sup> 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.

(Contd. on page 3)



Page 3/9

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

Printing date 16.11.2022

Version number 5 (replaces version 4)

Revision: 16.11.2022

Trade name: Optosil Comfort

(Contd. of page 2)

#### 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.

- 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: Ex	posure controls	/personal	protection
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	onents with critical values that require	monitoring at the workplace:
9005-25-8	Starch	
WEL (Gre	at Britain) Long-term value: 10* 4** mg/r *total inhalable **respirable	n³
· DNI	ELs	
540-97-6 I	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	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)
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)



Page 4/9

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

Printing date 16.11.2022 Version number 5 (replaces version 4) Revision: 16.11.2022

Trade name: Optosil Comfort

	(Contd. of page 3)
· PNECs	
540-97-6 Dodecamethylcyclohexa	asiloxane
sewage treatment plant	1 mg/l (not defined)
sediment, dry weight, freshwater	13 mg/Kg (not defined)
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)
sediment, dry weight, marine water	,

<sup>·</sup> 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 item 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 Fluid · Colour: Yellow

(Contd. on page 5)



Page 5/9

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

Printing date 16.11.2022 Version number 5 (replaces version 4) Revision: 16.11.2022

Trade name: Optosil Comfort

	(Contd. of page 4)
· Smell:	Peppermint
· Odour threshold:	Not determined.
· Melting point/freezing point:	Not determined
· Boiling point or initial boiling point an	nd
boiling range	Not determined
Flammability	Not applicable.
Lower and upper explosion limit	
· Lower:	Not determined.
· Upper:	Not determined.
· Flash point:	>112 °C
Decomposition temperature:	Not determined.
· SADT	
· pH	Not determined.
Viscosity:	
· Kinematic viscosity	Not determined.
· dynamic:	Not determined.
· Solubility	
· Water:	Not miscible or difficult to mix
· Partition coefficient n-octanol/water (l	
value)	Not determined.
· Steam pressure:	Not determined.
Density and/or relative density	rvot dotorrimiod.
· Density at 20 °C	1.13 g/cm³
Relative density	Not determined.
· Vapour density	Not determined.
	No further relevant information available.
· Appearance:	5 (
Form:	Pasty
Important information on protection	Of .
health and environment, and on safety.	5 / / / / / //
Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.
Only and a surface to	Not determined.
· Solvent content:	0.00/
· Water:	0.2 %
Solids content:	62.1 %
Change in condition	Nat datamainad
· Evaporation rate	Not determined.
· Information with regard to physical haza	rd
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	
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	s Void
Substances and mixtures, which emit	
flammable gases in contact with wate	r Void
	(Contd. on page 6)



Page 6/9

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

Printing date 16.11.2022 Version number 5 (replaces version 4) Revision: 16.11.2022

Trade name: Optosil Comfort

		(Contd. of page 5
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 valu	es that are relevant for classification:		
8042-47-5	White mi	neral oil, petroleum		
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 L	Dodecame	ethylcyclohexasiloxane		
Oral	LD50	>2000 mg/kg (rat) (OECD 423)		
Dermal	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 L	541-02-6 Decamethylcyclopentasiloxane			
Oral	LD50	>5000 mg/kg (rat) (OECD 401)		
Dermal	LD50	>2000 mg/kg (rab) (OECD 402)		

- · 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

#### 540-97-6 Dodecamethylcyclohexasiloxane

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.

(Contd. on page 7)



Page 7/9

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

Printing date 16.11.2022

Version number 5 (replaces version 4)

Revision: 16.11.2022

(Contd. of page 6)

### Trade name: Optosil Comfort

	11.3	2	nform	ation	on	other	hazards
-	11.4	Z 1	11101111	auvii	UII	ouiei .	iiazai us

· Endocrine disrupting properties

None of the ingredients is listed.

12.1 Toxicity	<i>'</i>	
· Aquatic t	oxicity:	
8042-47-5 W	hite mineral oil, petroleum	
LL50/96h	>100 mg/L (fish) (OECD 203)	
540-97-6 Do	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)	
	≥0.002 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 (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)	
	camethylcyclopentasiloxane	
EC50/21d	>0.015 mg/L (daphnia) (OECD 211)	
EC50/48h	>0.0029 mg/l (daphnia) (OECD 202)	
LC50/96h	>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)	
NOEC / 96h	≥0.012 mg/l (algae) (OECD 201)	
	≥0.016 mg/l (fish) (OECD 204)	
NOEC / 48h	≥0.0029 mg/l (daphnia) (OECD 202)	
EC50/96h	>0.012 mg/L (algae) (OECD 201)	
12.2 Persiste	ence and degradability	
	decamethylcyclohexasiloxane	
Biodegradation	on 4.47 % /28d (not defined) (OECD 310)	
556-67-2 oct	amethylcyclotetrasiloxane	
Biodegradation	on 3.7 % /29d (not defined) (OECD 310)	
541-02-6 Dec	camethylcyclopentasiloxane	

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Page 8/9

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

Printing date 16.11.2022 Version number 5 (replaces version 4) Revision: 16.11.2022

#### Trade name: Optosil Comfort

	(Contd. of page 7)
· 12.3 Bioaccumulative potential	
540-97-6 Dodecamethylcyclohexasiloxane	
Bloconcentration factor (BCF)   1160 (not defined)	
556-67-2 octamethylcyclotetrasiloxane	
Bloconcentration factor (BCF)   12400 (not defined)	
541-02-6 Decamethylcyclopentasiloxane	
Bloconcentration 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 undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

Do not allow product 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.

Non contaminated packagings can be used for recycling.

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	

(Contd. on page 9)



Page 9/9

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

Printing date 16.11.2022

Version number 5 (replaces version 4)

Revision: 16.11.2022

#### Trade name: Optosil Comfort

		(Contd. of page 8)
· 14.6 Special precautions for user	Not applicable.	
· 14.7 Maritime transport in bulk according IMO instruments	<b>g to</b> 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.

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

IMDG. International Mantime 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

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
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

\* Data compared to the previous version altered.