

Page 1/10

Revision: 23.01.2025

Safety data sheet according to UK REACH

Printing date 23.01.2025 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 P Plus
- · 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
 - · Additional information: see 2.1
- · 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: -

CAS: 14464-46-1		25-50%
CAS: 540-97-6 EINECS: 208-762-8 Reg.nr.: 01-2119717435-42-xxxx Non-classified vPvB substance. Non-classified PBT substance. Substance identified as having exproperties (II).	ndocrine disrupting	<1%

GB



Page 2/10

Safety data sheet according to UK REACH

Printing date 23.01.2025 Version number 5 (replaces version 4) Revision: 23.01.2025

Trade name: Optosil P Plus

	(Conto	d. of page 1)
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%
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%

[·] 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 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). 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.

(Contd. on page 3)



Page 3/10

Safety data sheet according to UK REACH

Printing date 23.01.2025 Version number 5 (replaces version 4) Revision: 23.01.2025

Trade name: Optosil P Plus

(Contd. of page 2)

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 Contro	l parameters
------------	--------------

• DNE 540-97-6 D Oral	t Britain) Long-term value: 10* 4** mg/n *total inhalable **respirable Ls Odecamethylcyclohexasiloxane	n³
• DNE 540-97-6 D Oral	*total inhalable **respirable Ls Odecamethylcyclohexasiloxane	n³
540-97-6 D Oral	Ls Odecamethylcyclohexasiloxane	
540-97-6 D Oral	odecamethylcyclohexasiloxane	
Oral g		
	conord nonvilation couts avatamia	
	general population, acute, systemic	1.7 mg/Kg (not defined)
[9	general population, long term, systemic	1.7 mg/Kg (not defined)
Inhalative ı	worker industrial, acute, local	6.1 mg/m3 (not defined)
١	worker industrial, long term, systemic	11 mg/m3 (not defined)
١	worker industrial, long term, local	1.22 mg/m3 (not defined)
ç	general population, acute, local	1.5 mg/m3 (not defined)
ç	general population, long term, systemic	2.7 mg/m3 (not defined)
ç	general population, long term, local	0.3 mg/m3 (not defined)
541-02-6 D	Pecamethylcyclopentasiloxane	
Oral g	general population, long term, systemic	5 mg/Kg (not defined)
Inhalative v	worker industrial, long term, systemic	97.3 mg/m3 (not defined)
١	worker industrial, long term, local	24.2 mg/m3 (not defined)
ç	general population, long term, systemic	17.3 mg/m3 (not defined)
ç	general population, long term, local	4.3 mg/m3 (not defined)
556-67-2 o	ctamethylcyclotetrasiloxane	
Oral g	general population, long term, systemic	3.7 mg/Kg (not defined)
Inhalative v	worker industrial, long term, systemic	73 mg/m3 (not defined)
١	worker industrial, long term, local	73 mg/m3 (not defined)
٤	general population, long term, systemic	13 mg/m3 (not defined)

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Page 4/10

Safety data sheet according to UK REACH

Printing date 23.01.2025 Version number 5 (replaces version 4) Revision: 23.01.2025

Trade name: Optosil P Plus

			(Contd. of page 3)
general population, long	term, local	13 mg/m3 (not defined)	
· PNECs			
540-97-6 Dodecamethylcyclohexa	asiloxane		
sewage treatment plant	1 mg/l (not def	fined)	
sediment, dry weight, freshwater	13 mg/Kg (not	defined)	
sediment, dry weight, marine water	1.3 mg/Kg (no	t defined)	
541-02-6 Decamethylcyclopentas	iloxane		
freshwater	0.0012 mg/l (n	ot defined)	
marine water	0.00012 mg/l ((not defined)	
sewage treatment plant	10 mg/l (not de	efined)	
sediment, dry weight, freshwater	11 mg/Kg (not	defined)	
sediment, dry weight, marine water	1.1 mg/Kg (no	t defined)	
556-67-2 octamethylcyclotetrasilo	oxane		
freshwater	0.0015 mg/l (n	ot defined)	
marine water	0.00015 mg/l ((not defined)	
sewage treatment plant	10 mg/l (not de	efined)	
sediment, dry weight, freshwater	3 mg/Kg (not d	defined)	
sediment, dry weight, marine water	0.3 mg/Kg (no	t 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

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

GB



Page 5/10

Safety data sheet according to UK REACH

Printing date 23.01.2025 Version number 5 (replaces version 4) Revision: 23.01.2025

Trade name: Optosil P Plus

(Contd. of page 4)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

General Information

Physical state
Colour:
Smell:
Solid.
Yellow
Odourless

· Odour threshold:
· Melting point/freezing point:
· Roiling point or initial boiling point and

Boiling point or initial boiling point and

boiling range

• Flammability

• Lower and upper explosion limit

Not determined
Not applicable.

Lower: Not determined.
Upper: Not determined.

· Flash point: >101 °C

Decomposition temperature: Not determined.

· SADT · pH

pH Not determined.
Viscosity:

· Kinematic viscosity
· dynamic:

Solubility

Not determined.
Not determined.

· Water: · Partition coefficient n-octanol/water (log

value)
Not determined.
Not determined.

Density and/or relative density

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

9.2 Other information

No further relevant information available.

69.0 %

Not miscible or difficult to mix

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.
Not determined.

· Solvent content:

Solids content:

· Change in condition

· Evaporation rate Not determined.

· Information with regard to physical hazard classes

· Explosives Void
· Flammable gases Void
· Aerosols Void
· Oxidising gases Void

(Contd. on page 6)



Page 6/10

Safety data sheet according to UK REACH

Printing date 23.01.2025 Version number 5 (replaces version 4) Revision: 23.01.2025

Trade name: Optosil P Plus

		(Contd. of page 5)
· 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 valu	es that are relevant for classification:
540-97-6	Dodecame	ethylcyclohexasiloxane
Oral	LD50	>2000 mg/kg (rat) (OECD 423)
Dermal	LD50	>2000 mg/kg (rat) (OECD 402)
541-02-6	Decameth	ylcyclopentasiloxane
Oral	LD50	>5000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2000 mg/kg (rab) (OECD 402)
556-67-2	octamethy	rlcyclotetrasiloxane
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)
D!	maur irrita	-4 - 55 - 4

- · Primary irritant 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.

(Contd. on page 7)



Page 7/10

Safety data sheet according to UK REACH

Version number 5 (replaces version 4) Printing date 23.01.2025 Revision: 23.01.2025

Trade name: Optosil P Plus

(Contd. of page 6)

- · 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.

- · 11.2 Information on other hazards

· Endo	rine 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

· 1	2.1	Tox	cic	ity
-----	-----	-----	-----	-----

· Aquatic t	oxicity:
540-97-6 Do	decamethylcyclohexasiloxane
NOEC / 91d	≥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)
541-02-6 Dec	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)
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)
	(Contd. on page 8)



Page 8/10

Safety data sheet according to UK REACH

Printing date 23.01.2025 Version number 5 (replaces version 4) Revision: 23.01.2025

Trade name: Optosil P Plus

(Contd. of page 7) 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 540-97-6 Dodecamethylcyclohexasiloxane Biodegradation 4.47 % /28d (not defined) (OECD 310) 541-02-6 Decamethylcyclopentasiloxane Biodegradation 0.14 % /28d (not defined) (OECD 310) 556-67-2 octamethylcyclotetrasiloxane Biodegradation 3.7 % /29d (not defined) (OECD 310) · 12.3 Bioaccumulative potential 540-97-6 Dodecamethylcyclohexasiloxane Bloconcentration factor (BCF) 1160 (not defined) 541-02-6 Decamethylcyclopentasiloxane Bloconcentration factor (BCF) 7060 (fish) 7060 (not defined) 556-67-2 octamethylcyclotetrasiloxane Bloconcentration factor (BCF) | 12400 (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.

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.

- GE



Page 9/10

Safety data sheet according to UK REACH

Printing date 23.01.2025 Version number 5 (replaces version 4) Revision: 23.01.2025

Trade name: Optosil P Plus

(Contd. of page 8)

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	
14.3 Transport hazard class(es)		
· ADR, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
14.5 Environmental hazards:	Not applicable.	
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
 - 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.

- Directive 2012/18/EU
- · Named dangerous substances ANNEX I 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

H226 Flammable liquid and vapour.

(Contd. on page 10)



Page 10/10

Safety data sheet according to UK REACH

Version number 5 (replaces version 4) Printing date 23.01.2025

Trade name: Optosil P Plus

(Contd. of page 9)

Revision: 23.01.2025

H361f Suspected of damaging fertility.

H372 Causes damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.

Abbreviations and acronyms:

SADT: Self Accelerating Decomposition Temperature

SAD1: 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)
DNFI: Derived No-Effect Level (UK REACH)

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

very Persistent, Bioaccumulative and Toxic
very Persistent and very Bioaccumulative
Flam. Liq. 3: Flammable liquids – Category 3
Repr. 2: Reproductive toxicity – Category 2
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

* Data compared to the previous version altered.