

Safety Data Sheet according to (EC) No 1907/2006 as amended

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LOCTITE SI 5990 CO TB100ML EGFD

SDS No.: 444476 V004.0 Revision: 27.01.2022 printing date: 03.05.2022 Replaces version from: 09.02.2021

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

1.1. Product identifier

LOCTITE SI 5990 CO TB100ML EGFD

- **1.2. Relevant identified uses of the substance or mixture and uses advised against** Intended use: Silicone adhesive
- 1.3. Details of the supplier of the safety data sheet

Henkel Ltd Adhesives Wood Lane End HP24RQ Hemel Hempstead

Great Britain

Phone: +44 (1442) 278000 Fax-no.: +44 (1442) 278071

ua-productsafety.uk@henkel.com

For Safety Data Sheet updates please visit our website https://mysds.henkel.com/index.html#/appSelection or www.henkel-adhesives.com.

1.4. Emergency telephone number

24 Hours Emergency Tel: +44 (0)1442 278497

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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Classification(CLP):
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The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

2.2. Label elements

Label elements (CLP):

The substance or mixture is not hazardous according to Regulation (EC) No 1272/2008 (CLP).

Supplemental information Safety data sheet available on request.

2.3. Other hazards

None if used properly. This mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB). Self-classification according to Article 12(b) of (EU) 1272/2008.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Declaration of the ingredients according to CLP (EC) No 1272/2008:

Hazardous components CAS-No.	EC Number REACH-Reg No.	content	Classification
2-Propanone, O,O',O"- (ethylsilylidyne)trioxime 58190-57-1	01-2119982962-22	5- < 10 %	STOT RE 2 H373
Dimethyltindineodecanoate 68928-76-7	273-028-6 01-2120770324-57	0,1-< 1 %	Acute Tox. 4; Oral H302 Repr. 2 H361d STOT RE 1 H372 Aquatic Chronic 4 H413 Skin Irrit. 2 H315
octamethylcyclotetrasiloxane 556-67-2	209-136-7 01-2119529238-36	0,1-< 1 %	Aquatic Chronic 1 H410 Repr. 2 H361f Flam. Liq. 3 H226 EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC) M factor (Chron Aquat Tox): 10
Decamethylcyclopentasiloxane 541-02-6	208-764-9 01-2119511367-43	0,1-< 1 %	EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC) EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC)
Dodecamethylcyclohexasiloxane 540-97-6	208-762-8 01-2119517435-42	0,1-< 1 %	Aquatic Chronic 4 H413 ===== EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC) EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC)

For full text of the H - statements and other abbreviations see section 16 "Other information". Substances without classification may have community workplace exposure limits available.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation: Move to fresh air. If symptoms persist, seek medical advice.

Skin contact: Rinse with running water and soap. Obtain medical attention if irritation persists.

Eve contact:

Rinse immediately with plenty of running water (for 10 minutes), seek medical attention from a specialist.

Ingestion:

Rinse mouth, drink 1-2 glasses of water, do not induce vomiting, consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Prolonged or repeated contact may cause skin irritation.

Prolonged or repeated contact may cause eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

See section: Description of first aid measures

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: water, carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons: High pressure waterjet

5.2. Special hazards arising from the substance or mixture

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released. Silicon dioxide

5.3. Advice for firefighters

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

Additional information:

In case of fire, keep containers cool with water spray.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Avoid contact with skin and eyes. Ensure adequate ventilation. Wear protective equipment.

6.2. Environmental precautions

Do not empty into drains / surface water / ground water.

6.3. Methods and material for containment and cleaning up

For small spills wipe up with paper towel and place in container for disposal. For large spills absorb onto inert absorbent material and place in sealed container for disposal. Dispose of contaminated material as waste according to Section 13.

6.4. Reference to other sections

See advice in section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid skin and eye contact. See advice in section 8

Hygiene measures:

Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working. Good industrial hygiene practices should be observed.

7.2. Conditions for safe storage, including any incompatibilities Store in a cool, dry place. Keep container tightly sealed. Refer to Technical Data Sheet

7.3. Specific enduse(s) Silicone adhesive

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Short term exposure limit category / Remarks	Regulatorylist
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [SILICA, AMORPHOUS, RESPIRABLE DUST]		2,4	Time Weighted Average (TWA):		EH40 WEL
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [SILICA, AMORPHOUS, INHALABLE DUST]		6	Time Weighted Average (TWA):		EH40 WEL
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [Dust, inhalable dust]		10	Time Weighted Average (TWA):		EH40 WEL
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [Dust, respirable dust]		4	Time Weighted Average (TWA):		EH40 WEL
Dimethylbis[(1-oxoneodecyl)oxy]stannane 68928-76-7 [TIN COMPOUNDS, ORGANIC, EXCEPT CYHEXATIN(ISO), (AS SN)]		0,1	Time Weighted Average (TWA):		EH40 WEL
Dimethylbis[(1-oxoneodecyl)oxy]stannane 68928-76-7 [TIN COMPOUNDS, ORGANIC, EXCEPT CYHEXAT IN (ISO), (AS SN)]			Skin designation:	Can be absorbed through the skin.	EH40 WEL
Dimethylbis[(1-oxoneodecyl)oxy]stannane 68928-76-7 [TIN COMPOUNDS, ORGANIC, EXCEPT CYHEXATIN(ISO), (ASSN)]		0,2	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL

Occupational Exposure Limits

Valid for

Ireland

Ingredient [Regulated substance]	ppm	mg/m ³	Value type	Shortterm exposure limit category / Remarks	Regulatory list
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [DUST SNON-SPECIFIC]		10	Time Weighted Average (TWA):		IR_OEL
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [SILICA, AMORPHOUS]		2,4	Time Weighted Average (TWA):		IR_OEL
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [SILICA, AMORPHOUS]		6	Time Weighted Average (TWA):		IR_OEL
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [DUST S NON-SPECIFIC]		4	Time Weighted Average (TWA):		IR_OEL
Dimethylbis[(1-oxoneodecyl)oxy]stannane 68928-76-7 [TIN, ORGANIC COMPOUNDS]		0,2	Short Term Exposure Limit (STEL):	15 minutes Indicative OELV	IR_OEL
Dimethylbis[(1-oxoneodecyl)oxy]stannane 68928-76-7 [TIN, ORGANIC COMPOUNDS]		0,1	Time Weighted Average (TWA):	Indicative OELV	IR_OEL

Predicted No-Effect Concentration (PNEC):

Name on list	n list En vironmental Exposure Value Compartment period					Remarks	
		ciiou	mg/l	ppm	mg/kg	others	
2-Propanone, O,O',O"-	aqua		0,23978	FF	8		
(ethylsilylidyne)trioxime	(freshwater)		mg/l				
58190-57-1			-				
2-Propanone, O,O',O"-	aqua (marine		0,02398				
(ethylsilylidyne)trioxime	water)		mg/l				
58190-57-1							
2-Propanone, O,O',O"-	sediment				2047,053		
(ethylsilylidyne)trioxime	(freshwater)				mg/kg		
58190-57-1							
2-Propanone, O,O',O"-	sediment				204,705		
(ethylsilylidyne)trioxime	(marine water)				mg/kg		
58190-57-1							
2-Propanone, O,O',O"-	Soil				240,95		
(ethylsilylidyne)trioxime					mg/kg		
58190-57-1							
2-Propanone, O,O',O''-	oral		1		2,638		
(ethylsilylidyne)trioxime					mg/kg		
58190-57-1							
2-Propanone, O,O',O''-	sewage		2,398 mg/l				
(ethylsilylidyne)trioxime	treatment plant						
58190-57-1	(STP)						
Octamethylcyclotetrasiloxane	aqua		0,0015				
556-67-2	(freshwater)		mg/l				
Octamethylcyclotetrasiloxane	aqua (marine		0,00015				
556-67-2	water)		mg/l				
Octamethylcyclotetrasiloxane	sewage		10 mg/l				
556-67-2	treatment plant						
	(STP)				2 1		
Octamethylcyclotetrasiloxane 556-67-2	sediment (freshwater)				3 mg/kg		
Octamethylcyclotetrasiloxane	sediment				0,3 mg/kg		
556-67-2	(marine water)				0,5 mg/kg		
Octamethylcyclotetrasiloxane	oral				41 mg/kg		
556-67-2	0141				41 mg/kg		
Octamethylcyclotetrasiloxane	Soil				0,54 mg/kg		
556-67-2	5011				0,54 mg/kg		
Decamethylcyclopentasiloxane	aqua		0,0012				
541-02-6	(freshwater)		mg/l				
Decamethylcyclopentasiloxane	aqua (marine		0.00012				
541-02-6	water)		mg/l				
Decamethylcyclopentasiloxane	sewage		10 mg/l				
541-02-6	treatment plant		10 11191				
	(STP)						
Decamethylcyclopentasiloxane	sediment				11 mg/kg		
541-02-6	(freshwater)		1		6 8		
Decamethylcyclopentasiloxane	Soil				2,54 mg/kg		
541-02-6							
Decamethylcyclopentasiloxane	oral				16 mg/kg		
541-02-6							
Decamethylcyclopentasiloxane	sediment				1,1 mg/kg		
541-02-6	(marine water)						
Dodecamet hylcyclohex asilo xane	sediment				13,5 mg/kg		
540-97-6	(freshwater)						
Dodecamet hylcyclohex asilo xane	oral				66,7 mg/kg		
540-97-6							
Dodecamethylcyclohexasiloxane	sediment				1,35 mg/kg		
540-97-6	(marine water)						

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
2-Propanone, O,O',O"- (ethylsilylidyne)trioxime 58190-57-1	Workers	Inhalation	Long term exposure - systemic effects		0,41857 mg/m3	
2-Propanone, O,O',O"- (ethylsilylidyne)trioxime 58190-57-1	Workers	dermal	Long term exposure - systemic effects		0,05935 mg/kg	
2-Propanone, O,O',O"- (ethylsilylidyne)trioxime 58190-57-1	General population	Inhalation	Long term exposure - systemic effects		0,10322 mg/m3	
2-Propanone, O,O',O"- (ethylsilylidyne)trioxime 58190-57-1	General population	oral	Long term exposure - systemic effects		0,02968 mg/kg	
2-Propanone, O,O',O"- (ethylsilylidyne)trioxime 58190-57-1	General population	dermal	Long term exposure - systemic effects		0,02968 mg/kg	
Oct amethylcyclotetrasilox ane 556-67-2	Workers	inhalation	Long term exposure - systemic effects		73 mg/m3	
Octamethylcyclotetrasiloxane 556-67-2	Workers	inhalation	Long term exposure - local effects		73 mg/m3	
Octamethylcyclotetrasiloxane 556-67-2	General population	inhalation	Long term exposure - systemic effects		13 mg/m3	
Octamethylcyclotetrasiloxane 556-67-2	General population	inhalation	Long term exposure - local effects		13 mg/m3	
Oct amethylcyclotetrasilox ane 556-67-2	General population	oral	Long term exposure - systemic effects		3,7 mg/kg	
Decamethylcyclopentasiloxane 541-02-6	Workers	inhalation	Long term exposure - systemic effects		97,3 mg/m3	
Decamethylcyclopentasiloxane 541-02-6	Workers	inhalation	Long term exposure - local effects		24,2 mg/m3	
Decamethylcyclopentasiloxane 541-02-6	General population	oral	Long term exposure - systemic effects		5 mg/kg	
Decamethylcyclopentasiloxane 541-02-6	General population	inhalation	Long term exposure - systemic effects		17,3 mg/m3	
Decamethylcyclopentasiloxane 541-02-6	General population	inhalation	Long term exposure - local effects		4,3 mg/m3	
Dodecamethylcyclohexasiloxane 540-97-6	Workers	inhalation	Longterm exposure - local effects		1,22 mg/m3	
Dodecamethylcyclohexasiloxane 540-97-6	Workers	inhalation	Acute/short term exposure - local effects		6,1 mg/m3	
Dodecamethylcyclohexasiloxane 540-97-6	General population	inhalation	Long term exposure - local effects		0,3 mg/m3	
Dodecamethylcyclohexasiloxane 540-97-6	General population	inhalation	Acute/short term exposure - local effects		1,5 mg/m3	

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls: Ensure good ventilation/extraction. Respiratory protection: Ensure adequate ventilation. An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area Filter type: A (EN 14387)

Hand protection: Chemical-resistant protective gloves (EN 374). Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374): nitrile rubber (NBR; >= 0.4 mm thickness) Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374): nitrile rubber (NBR; >= 0.4 mm thickness) This is the the true for the

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

Eye protection:

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing. Protective eye equipment should conform to EN166.

Skin protection:

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

Advices to personal protection equipment:

The information provided on personal protective equipment is for guidance purposes only. A full risk assessment should be conducted prior to using this product to determine the appropriate personal protective equipment to suit local conditions. Personal protective equipment should conform to the relevant EN standard.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and chemical pr	operties
Appearance	liquid
	liquid
	copper
Odor	characteristic
Odour threshold	No data available / Not applicable
pH	No data available / Not applicable
Melting point	No data available / Not applicable
Solidification temperature	No data available / Not applicable
Initial boiling point	No data available / Not applicable
Flash point	>100 °C (>212 °F)
Evaporation rate	No data available / Not applicable
Flammability	No data available / Not applicable
Explosive limits	No data available / Not applicable
Vapour pressure	No data available / Not applicable
Relative vapour density:	No data available / Not applicable
Density	No data available / Not applicable
Bulk density	No data available / Not applicable
Solubility	No data available / Not applicable
Solubility (qualitative)	Insoluble
(20 °C (68 °F); Solvent: Water)	
Partition coefficient: n-octanol/water	No data available / Not applicable
Auto-ignition temperature	No data available / Not applicable
Decomposition temperature	No data available / Not applicable
Viscosity	No data available / Not applicable
Viscosity (kinematic)	No data available / Not applicable
Explosive properties	No data available / Not applicable

Oxidising properties

No data available / Not applicable

9.2. Other information

No data available / Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Reacts with oxidants, acids and lyes

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

See section reactivity

10.4. Conditions to avoid

Stable under normal conditions of storage and use. Excessive heat.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

None if used for intended purpose.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Haz ardous substances	Value	Value	S pe cies	Method
CAS-No.	type		_	
2-Propanone, O,O',O''-	LD50	2.500 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
(ethylsilylidyne)trioxime				
58190-57-1				
Dimethyltindineodecanoat	LD50	892 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
e				
68928-76-7				
octamethylcyclotetrasilox	LD50	> 4.800 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral
ane				Toxicity)
556-67-2				
Decamethylcyclopentasilo	LD50	> 5.000 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral
xane				Toxicity)
541-02-6				
Dodecamethylcyclohexasi	LD50	> 2.000 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
loxane				
540-97-6				

Acute dermal toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value	Value	Species	Method
0.10	type			
Dimethyltindineodecanoat	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
e				
68928-76-7				
octamethylcyclotetrasilox	LD50	> 2.375 mg/kg	rat	equivalent or similar to OECD Guideline 402 (Acute
ane				Dermal Toxicity)
556-67-2				
Decamethylcyclopentasilo	LD50	> 2.000 mg/kg	rabbit	equivalent or similar to OECD Guideline 402 (Acute
xane				Dermal Toxicity)
541-02-6				
Dodecamethylcyclohexasi	LD50	> 2.000 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
loxane				
540-97-6				

Acute inhalative toxicity:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Value type	Value	Test atmosphere	Exposure time	Species	Method
octamethylcyclotetrasilox ane 556-67-2	LC50	36 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)
Decamethylcyclopentasilo xane 541-02-6	LC50	8,67 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute Inhalation Toxicity)

Skin corrosion/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
Dimethyltindineodecanoat e 68928-76-7	irritating or corrosive	15 min	Human, EpiSkinTM (SM), Reconstructed Human Epidermis (RHE)	OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method)
Dimethyltindineodecanoat e 68928-76-7	not corrosive	1 h	Human, EpiDermTMSIT (EPI-200), Reconstructed Human Epidermis (RHE)	OECD Guideline 431 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method)
octamethylcyclotetrasilox ane 556-67-2	not irritating		rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Decamethylcyclopentasilo xane 541-02-6	not irritating	24 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Dodecamethylcyclohexasi loxane 540-97-6	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

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Serious eye damage/irritation:

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Exposure time	Species	Method
01-0 -101		ume		
Dimethyltindineodecanoat	not irritating		Bovine, cornea,	OECD Guideline 437 (BCOP)
e	_		in vitro test	
68928-76-7				
octamethylcyclotetrasilox	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye
ane	_			Irritation/Corrosion)
556-67-2				
Decamethylcyclopentasilo	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye
xane	_			Irritation/Corrosion)
541-02-6				
Dodecamethylcyclohexasi	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
loxane				•
540-97-6				

Respiratory or skin sensitization:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Test type	Species	Method
octamethylcyclotetrasilox ane 556-67-2	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
Decamet hylcyclopentasilo xane 541-02-6	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	equivalent or similar to OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Dodecamethylcyclohexasi loxane 540-97-6	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result	Type of study/ Route of administration	Metabolic activation / Exposure time	Species	Method
octamethylcyclotetrasilox ane 556-67-2	negative	bacterial gene mutation assay	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
octamethylcyclotetrasilox ane 556-67-2	negative	in vitro mammalian chromosome aberration test	with and without		equivalent or similar to OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
octamethylcyclotetrasilox ane 556-67-2	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Decamethylcyclopentasilo xane 541-02-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Decamethylcyclopentasilo xane 541-02-6	negative	in vitro mammalian chromosome aberration test	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)
Decamet hylcyclopentasilo xane 541-02-6	negative	mammalian cell gene mutation assay	with and without		equivalent or similar to OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Dodecamethylcyclohexasi loxane 540-97-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Dodecamethylcyclohexasi loxane 540-97-6	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
octamethylcyclotetrasilox ane 556-67-2	negative	inhalation		rat	equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration Test)
octamethylcyclotetrasilox ane 556-67-2	negative	oral: gavage		rat	equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal Test)
Decamet hy lcy clopentasilo xane 541-02-6	negative	inhalation		rat	OECD Guideline 486 (Unscheduled DNA Synthesis (UDS) Test with Mammalian Liver Cells in vivo)
Decamethylcyclopentasilo xane 541-02-6	negative	inhalation: vapour		rat	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
Dodecamethylcyclohexasi loxane 540-97-6	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Carcinogenicity

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Sex	Method
Decamethylcyclopentasilo	not carcinogenic	inhalation:	2 y	rat	male/female	EPA OPPTS 870.4300
xane		vapour	6 h/d, 5 d/w			(Combined Chronic
541-02-6		-				Toxicity/
						Carcinogenicity)

Reproductive toxicity:

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Haz ardous substances	Result / Value	Test type	Route of	Species	Method
CAS-No.			application		
octamethylcyclotetrasilox	NOAEL P 300 ppm	two-	inhalation	rat	equivalent or similar to
ane		generation			OECD Guideline 416 (Two-
556-67-2	NOAEL F1 300 ppm	study			Generation Reproduction
					Toxicity Study)
Decamethylcyclopentasilo	NOAEL P >= $2,496 \text{ mg/l}$	two-	inhalation:	rat	EPA OPPTS 870.3800
xane	_	generation	vapour		(Reproduction and Fertility
541-02-6	NOAEL F1 >= $2,496 \text{ mg/l}$	study			Effects)
	NOAEL F2 >= $2,496 \text{ mg/l}$				
Dodecamethylcyclohexasi	NOAEL P 1.000 mg/kg	screening	oral: gavage	rat	OECD Guideline 422
loxane		_			(Combined Repeated Dose
540-97-6	NOAEL F1 1.000 mg/kg				Toxicity Study with the
					Reproduction/
					Developmental Toxicity
					Screening Test)

STOT-single exposure:

No data available.

STOT-repeated exposure::

The mixture is classified based on threshold limits referring to the classified substances present in the mixture.

Hazardous substances CAS-No.	Result / Value	Route of application	Exposure time / Frequency of treatment	Species	Method
2-Propanone, O,O',O''- (ethylsilylidyne)trioxime 58190-57-1	NOAEL 11,87 mg/kg			rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
octamethylcyclotetrasilox ane 556-67-2	LOAEL 35 ppm	inhalation	6 h nose only inhalation 5 days/week for 13 weeks	rat	OECD Guideline 412 (Repeated Dose Inhalation Toxicity: 28/14-Day)
oct amethylcyclotetrasilox ane 556-67-2		dermal	3 w 5 d/w	rabbit	equivalent or similar to OECD Guideline 410 (Repeated Dose Dermal T oxicity: 21/28-Day Study)
Decamethylcyclopentasilo xane 541-02-6	mg/kg	oral: gavage	13 w daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Decamethylcyclopentasilo xane 541-02-6	NOAEL >= 2,42 mg/l	inhalation: vapour	2 y 6 h/d, 5 d/w	rat	equivalent or similar to OECD Guideline 453 (Combined Chronic Toxicity/Carcinogenicity Studies)
Decamethylcyclopentasilo xane 541-02-6	NOAEL >= 1.600 mg/kg	oral: gavage	28 d 6 h/d, 7 d/w	rat	equivalent or similar to OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
Dodecamethylcyclohexasi loxane 540-97-6	NOAEL 1.000 mg/kg	oral: gavage	29 d daily, 7 d/w	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Aspiration hazard:

No data available.

SECTION 12: Ecological information

General ecological information:

Do not empty into drains / surface water / ground water. Self-classification according to Article 12(b) of (EU) 1272/2008.

12.1. Toxicity

Toxicity (Fish):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Haz ardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type		_		
Dimethyltindineodecanoate	LC50	Toxicity>Water	96 h	not specified	OECD Guideline 203 (Fish,
68928-76-7		solubilit y			Acute Toxicity Test)
octamethylcyclotetrasiloxane	NOEC	0,0044 mg/l	93 d	Salmo gairdneri (new name:	EPA OPPTS 797.1600 (Fish
556-67-2				Oncorhynchus mykiss)	Early Life Stage Toxicity
					Test)
octamethylcyclotetrasiloxane	LC50	Toxicity>Water	96 h	Oncorhynchus mykiss	EPA OT S797.1400 (Fish
556-67-2		solubilit y			Acute Toxicity Test)
Decamethylcyclopentasiloxan	LC50	Toxicity>Water	96 h	Leuciscus idus	OECD Guideline 204 (Fish,
e		solubility			Prolonged Toxicity Test:
541-02-6		-			14-day Study)
Decamethylcyclopentasiloxan	NOEC	Toxicity>Water	90 d	Oncorhynchus mykiss	OECD Guideline 210 (fish
e		solubility			early lite stage toxicity test)
541-02-6					

Toxicity (Daphnia):

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Dimethyltindineodecanoate	EC50	Toxicity>Water	48 h	Daphnia magna	OECD Guideline 202
68928-76-7		solubility			(Daphnia sp. Acute
		-			Immobilisation Test)
octamethylcyclotetrasiloxane	EC50	Toxicity>Water	48 h	Daphnia magna	EPA OT S797.1300
556-67-2		solubility			(Aquatic Invertebrate Acute
					Toxicity Test, Freshwater
					Daphnids)
Decamethylcyclopentasilox an	EC50	Toxicity>Water	48 h	Daphnia magna	OECD Guideline 202
e		solubility			(Daphnia sp. Acute
541-02-6					Immobilisation Test)

Chronic toxicity to aquatic invertebrates

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Haz ardous substances	Value	Value	Exposure time	S pe cies	Method
CAS-No.	type				
octamethylcyclotetrasiloxane 556-67-2	NÕEC	7.9 µg/l	21 d	Daphnia magna	EPA OT S 797.1330 (Daphnid Chronic T oxicity T est)
Decamethylcyclopentasiloxan e 541-02-6	NOEC	Toxicity>Water solubility	21 d	Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)
Dodecamethylcyclohexasiloxa ne 540-97-6	NOEC	T oxicity > Water solubility		Daphnia magna	OECD 211 (Daphnia magna, Reproduction Test)

Toxicity (Algae):

Haz ardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type		_	-	
(ethylsilylidyne)trioxime 58190-57-1	EC50	315,36mg/l	72 h	P seudo kirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-Propanone, O,O',O''- (ethylsilylidyne)trioxime 58190-57-1	NOEC	62,34 mg/l	72 h	P seudo kirch neriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
68928-76-7	EC50	Toxicity>Water solubility	72 h	not specified	OECD Guideline 201 (Alga, Growth Inhibition Test)
octamethylcyclotetrasiloxane 556-67-2	EC50	Γoxicity>Water solubility	96 h	Selenastrum capricomutum (newname: Pseudokirchneriella subcapitata)	EPA OT S797.1050 (Algal Toxicity, Tiers I and II)
octamethylcyclotetrasiloxane 556-67-2	EC10	0,022 mg/l	96 h	Selenastrum capricomutum (newname: Pseudokirchneriella subcapitata)	EPA OT S797.1050 (Algal Toxicity, Tiers I and II)
Decamethylcyclopentasilox an e 541-02-6	NOEC	Γoxicity>Water solubility	96 h	(newname: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
Decamethylcyclopentasilox an e 541-02-6	EC50	Γoxicity>Water solubility	96 h	(newname: Pseudokirchneriella subcapitata)	,
Dodecamethylcyclohexasiloxa ne 540-97-6	NOEC	Γoxicity>Water solubility		Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
Dodecamethylcyclohexasiloxa ne 540-97-6	EC50	Γoxicity>Water solubility		Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Toxicity to microorganisms

The mixture is classified based on calculation method referring to the classified substances present in the mixture.

Haz ardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
octamethylcyclotetrasiloxane	EC50	Toxicity>Water	3 h	activated sludge	ISO 8192 (Test for
556-67-2		solubility			Inhibition of Oxygen
		-			Consumption by Activated
					Sludge)
Decamethylcyclopentasiloxan	EC50	> 2.000 mg/l	3 h	activated sludge, domestic	EU Method C.11
e					(Biodegradation: Activated
541-02-6					Sludge Respiration
					Inhibition Test)

12.2. Persistence and degradability

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Dimethyltindineodecanoate 68928-76-7		aerobic	0 - 60 %		OECD 301 A - F
octamethylcyclotetrasiloxane 556-67-2	not readily biodegradable.	aerobic	3,7 %	29 d	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test)
Decamethylcyclopentasiloxan e 541-02-6	not readily biodegradable.	aerobic	0,14 %	28 d	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test)
Dodecamethylcyclohexasiloxa ne 540-97-6	not readily biodegradable.	aerobic	4,47 %	28 d	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test)

12.3. Bioaccumulative potential

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
Dimethyltindineodecanoate 68928-76-7	8.650				QSAR (Quantitative Structure Activity Relationship)
octamethylcyclotetrasiloxane 556-67-2	12.400	28 d		Pimephales promelas	EPA OTS 797.1520 (Fish Bioconcentration T est-Rainbow Trout)
Decamethylcyclopentasilox an e 541-02-6	7.060	35 d		Pimephales promelas	OECD Guideline 305 (Bioconcentration: Flow-through Fish Test)
Dodecamethylcyclohexasiloxa ne 540-97-6	1.160	49 d		Pimephales promelas	OECD Guideline 305 (Bioconcentration: Flow-through Fish T est)

12.4. Mobility in soil

Hazardous substances	LogPow	Temperature	Method
CAS-No.			
Dimethyltindineodecanoate	5,5		QSAR (Quantitative Structure Activity Relationship)
68928-76-7			
octamethylcyclotetrasiloxane	6,488	25,1 °C	OECD Guideline 123 (Partition Coefficient (1-Octanol / Water), Slow-
556-67-2			Stirring Method)
Decamethylcyclopentasiloxan	8,07	24,6 °C	other guideline:
e			
541-02-6			
Dodecamethylcyclohexasiloxa	8,87	23,6 °C	other guideline:
ne			
540-97-6			

12.5. Results of PBT and vPvB assessment

Hazardoussubstances	PBT/vPvB		
CAS-No.			
Dimethyltindineodecanoate	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very		
68928-76-7	Bioaccumulative(vPvB) criteria.		
octamethylcyclotetrasiloxane	Fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very		
556-67-2	Bioaccumulative(vPvB) criteria.		
Decamethylcyclopentasiloxane	Fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very		
541-02-6	Bioaccumulative(vPvB) criteria.		
Dodecamethylcyclohexasiloxane	Fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very		
540-97-6	Bioaccumulative (vPvB) criteria.		

12.6. Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product disposal:

Do not empty into drains / surface water / ground water. Dispose of in accordance with local and national regulations.

Disposal of uncleaned packages:

After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated.

Waste code

08 04 10 Waste adhesives and sealants other than those mentioned in 08 04 09.

The valid EWC waste code numbers are source-related. The manufacturer is therefore unable to specify EWC waste codes for the articles or products used in the various sectors. The EWC codes listed are intended as a recommendation for users. We will be happy to advise you.

SECTION 14: Transport information		
14.1.	UN number	
	Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.	
14.2.	UN proper shipping name	
	Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.	
14.3.	Transport hazard class(es)	
	Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.	
14.4.	Packing group	
	Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.	
14.5.	Environmental hazards	
	Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.	
14.6.	S pecial precautions for user	
	Not hazardous according to RID, ADR, ADN, IMDG, IATA-DGR.	
14.7.	Transport in bulk according to Annex II of Marpol and the IBC Code	
	not applicable	

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture				
Ozone Depleting Substance (ODS) (Regulation (EC) No 1005/2009):		Not applicable		
Prior Informed Consent (PIC) (Regulation (EU) No 649/2012):		Not applicable		
Persistent organic pollutants (Regulation (EU) 2019/1021):		Not applicable		
VOC content	< 3 %			
(2010/75/EC)				

15.2. Chemical safety assessment A chemical safety assessment has not been carried out.

SECTION 16: Other information

The labelling of the product is indicated in Section 2. The full text

of all abbreviations indicated by codes in this safety data sheet are as follows:

H226 Flammable liquid and vapor.

- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H361d Suspected of damaging the unborn child.
- H361f Suspected of damaging fertility.

H372 Causes damage to organs through prolonged or repeated exposure.

- H373 May cause damage to organs through prolonged or repeated exposure.
- H410 Very toxic to aquatic life with long lasting effects.
- H413 May cause long lasting harmful effects to aquatic life.

Further information:

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