

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

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5145 CLEAR

SDS No. : 152782 V006.0 Revision: 19.07.2019 printing date: 16.11.2020 Replaces version from: 16.10.2018

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

- 1.1. Product identifier
 - 5145 CLEAR
- **1.2. Relevant identified uses of the substance or mixture and uses advised against** Intended use: Silicone sealant
- **1.3. Details of the supplier of the safety data sheet** Henkel Ltd

Wood Lane End HP2 4RQ Hemel Hempstead

Great Britain

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

ua-productsafety.uk@henkel.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

Classification (CLP):

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 EUH210 Safety data sheet available on request.

2.3. Other hazards

Methoxy curing silicones release methanol in contact with moisture. Methanol is toxic if swallowed and harmful by inhalation. It is highly flammable.

This product contains trace quantities of Hexamethyldisilazane. Hexamethyldisilazane reacts instantly with residual moisture in the package, and produces correspondingly small amounts of ammonia.

This mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

General chemical description:

Silicone sealant

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

Hazardous components	EC Number	content	Classification
CAS-No.	REACH-Reg No.		
Silane, dimethoxydimethyl-	214-189-4	1 - < 5%	Flam. Liq. 2
1112-39-6	01-2119976290-35		H225
Tetraethyl silicate	201-083-8	1-< 5 %	Flam. Liq. 3
78-10-4	01-2119496195-28		H226
/0101	01 211) 001)0 20		Acute Tox. 4; Inhalation
			H332
			Eye Irrit. 2
			H319
			STOT SE 3
			H335
Octamethylcyclotetrasiloxane	209-136-7	0,1-< 1 %	Flam. Liq. 3
556-67-2	01-2119529238-36	0,1 < 170	H226
550 07 2	01 211/52/250 50		Repr. 2
			H361f
			Aquatic Chronic 4
			H413
			=====
			EU. REACH Candidate List of Substances of
			Very High Concern for Authorization
	212 660 5	0.1 1.0/	(SVHC)
Hexamethyldisilizane 999-97-3	213-668-5 01-2119438176-38	0,1-<1%	Flam. Liq. 2 H225
999-97-3	01-2119438176-38		
			Acute Tox. 4; Oral
			H302
			Acute Tox. 3; Dermal
			H311
			Acute Tox. 4; Inhalation
			H332
			Aquatic Chronic 3
			H412
Decamethylcyclopentasiloxane	208-764-9	0,1-< 1 %	Aquatic Chronic 4
541-02-6	01-2119511367-43		H413
			=====
			EU. REACH Candidate List of Substances of
			Very High Concern for Authorization
			(SVHC)
Dodecamethylcyclohexasiloxane	208-762-8	0,1-< 1 %	Aquatic Chronic 4
540-97-6	01-2119517435-42		H413
			=====
			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. Eye 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: Carbon dioxide, foam, powder

Extinguishing media which must not be used for safety reasons: None known

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.

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

Use only in well-ventilated areas. Vapours should be extracted to avoid inhalation. Avoid skin and eye contact. See advice in section 8

Hygiene measures:

Good industrial hygiene practices should be observed. Wash hands before work breaks and after finishing work. Do not eat, drink or smoke while working. **7.2. Conditions for safe storage, including any incompatibilities** Store in a cool, well-ventilated place. Refer to Technical Data Sheet Never allow product to get in contact with water during storage

7.3. Specific end use(s) Silicone sealant

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

Valid for

Great Britain

Ingredient [Regulated substance]	ррт	mg/m ³	• •	Short term exposure limit category / Remarks	Regulatory list
Tetraethyl orthosilicate 78-10-4 [TETRAETHYL ORTHOSILICATE]	5	44	Time Weighted Average (TWA):		EH40 WEL
Tetraethyl orthosilicate 78-10-4 [TETRAETHYL ORTHOSILICATE]	5	44	Time Weighted Average (TWA):	Indicative	ECTLV

Occupational Exposure Limits

Valid for Ireland

Ingredient [Regulated substance]	ррт	mg/m ³	~ 1	Short term exposure limit category / Remarks	Regulatory list
Tetraethyl orthosilicate 78-10-4 [ETHYL SILICATE (TETRAETHYL ORTHOSILICATE)]	5	44	Time Weighted Average (TWA):	Indicative OELV	IR_OEL
Tetraethyl orthosilicate 78-10-4 [TETRAETHYL ORTHOSILICATE]	5	44	Time Weighted Average (TWA):	Indicative	ECTLV

Predicted No-Effect Concentration (PNEC):

Name on list	Environmental E Compartment p	Exposure period	Value			Remarks	
	I		mg/l	ppm	mg/kg	others	
Tetraethyl silicate 78-10-4	aqua (freshwater)		0,192 mg/l				
Tetraethyl silicate	aqua (marine		0.0192				
78-10-4	water)		mg/l				
Tetraethyl silicate	aqua		10 mg/l				
78-10-4	(intermittent releases)						
Tetraethyl silicate	sediment				0,83 mg/kg		
78-10-4	(freshwater)						
Tetraethyl silicate 78-10-4	sediment (marine water)				0,083 mg/kg		
Tetraethyl silicate	Soil				0,05 mg/kg		
78-10-4							
Tetraethyl silicate 78-10-4	sewage treatment plant		4000 mg/l				
	(STP)		0.0015				
Octamethylcyclotetrasiloxane 556-67-2	aqua (freshwater)		0,0015 mg/l				
Octamethylcyclotetrasiloxane	aqua (marine		0,00015	1			
556-67-2	water)		mg/l				
Octamethylcyclotetrasiloxane 556-67-2	sewage treatment plant		10 mg/l				
550 07 2	(STP)						
Octamethylcyclotetrasiloxane	sediment				3 mg/kg		
556-67-2 Octamethylcyclotetrasiloxane	(freshwater) sediment				0.2 mg/kg		
556-67-2	(marine water)				0,3 mg/kg		
Octamethylcyclotetrasiloxane 556-67-2	oral				41 mg/kg		
Octamethylcyclotetrasiloxane 556-67-2	Soil				0,54 mg/kg		
1,1,1,3,3,3-Hexamethyldisilazane 999-97-3	aqua (freshwater)		0,25 mg/l				
1,1,1,3,3,3-Hexamethyldisilazane 999-97-3	aqua (marine water)		0,025 mg/l				
1,1,1,3,3,3-Hexamethyldisilazane 999-97-3	sediment (freshwater)				0,45 mg/kg		
1,1,1,3,3,3-Hexamethyldisilazane 999-97-3	sediment (marine water)				0,045 mg/kg		
1,1,1,3,3,3-Hexamethyldisilazane	Soil				0,22 mg/kg		
999-97-3							
1,1,1,3,3,3-Hexamethyldisilazane 999-97-3	sewage treatment plant		67 mg/l				
Decamethylcyclopentasiloxane	(STP) aqua		0,0012				
541-02-6	(freshwater)		mg/l				
Decamethylcyclopentasiloxane	aqua (marine		0,00012				
541-02-6 Decamethylcyclopentasiloxane	water) sewage		mg/l 10 mg/l				
541-02-6	treatment plant (STP)		10 mg/1				
Decamethylcyclopentasiloxane	sediment				11 mg/kg		
541-02-6 Decamethylcyclopentasiloxane	(freshwater)				1.07		
541-02-6	Soil				1,27 mg/kg		
Decamethylcyclopentasiloxane 541-02-6	oral				16 mg/kg		
Decamethylcyclopentasiloxane 541-02-6	sediment (marine water)				1,1 mg/kg		
Dodecamethylcyclohexasiloxane	sediment				2,826		
540-97-6 Dodecamethylcyclohexasiloxane	(freshwater) sediment				mg/kg 0,282		
540-97-6	(marine water)				mg/kg		
Dodecamethylcyclohexasiloxane 540-97-6	Soil				3,336 mg/kg		
Dodecamethylcyclohexasiloxane	sewage		1 mg/l				
540-97-6	treatment plant (STP)						

Derived No-Effect Level (DNEL):

Name on list	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
Tetraethyl silicate 78-10-4	Workers	dermal	Acute/short term exposure - systemic effects		56 mg/kg	
Tetraethyl silicate 78-10-4	Workers	Inhalation	Acute/short term exposure - systemic effects		85 mg/m3	
Tetraethyl silicate 78-10-4	Workers	Inhalation	Acute/short term exposure - local effects		85 mg/m3	
Tetraethyl silicate 78-10-4	Workers	dermal	Long term exposure - systemic effects		56 mg/kg	
Tetraethyl silicate 78-10-4	Workers	Inhalation	Long term exposure - systemic effects		85 mg/m3	
Tetraethyl silicate 78-10-4	Workers	Inhalation	Long term exposure - local effects		85 mg/m3	
Tetraethyl silicate 78-10-4	General population	dermal	Acute/short term exposure - systemic effects		3 mg/kg	
Tetraethyl silicate 78-10-4	General population	Inhalation	Acute/short term exposure - local effects		14 mg/m3	
Tetraethyl silicate 78-10-4	General population	Inhalation	Acute/short term exposure - systemic effects		14 mg/m3	
Tetraethyl silicate 78-10-4	General population	dermal	Long term exposure - systemic effects		3 mg/kg	
Tetraethyl silicate 78-10-4	General population	Inhalation	Long term exposure - systemic effects		14 mg/m3	
Tetraethyl silicate 78-10-4	General population	Inhalation	Long term exposure - local effects		14 mg/m3	
Octamethylcyclotetrasiloxane 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	Workers	inhalation	Acute/short term exposure - systemic effects		73 mg/m3	
Octamethylcyclotetrasiloxane 556-67-2	Workers	inhalation	Acute/short 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	
Octamethylcyclotetrasiloxane 556-67-2	General population	inhalation	Acute/short term exposure - systemic effects		13 mg/m3	
Octamethylcyclotetrasiloxane 556-67-2	General population	inhalation	Acute/short term exposure - local effects		13 mg/m3	
Octamethylcyclotetrasiloxane 556-67-2	General population	oral	Long term exposure - systemic effects		3,7 mg/kg	
Octamethylcyclotetrasiloxane 556-67-2	General population	oral	Acute/short term exposure - systemic effects		3,7 mg/kg	
1,1,1,3,3,3-Hexamethyldisilazane 999-97-3	Workers	inhalation	Long term exposure - systemic effects		53 mg/m3	
1,1,1,3,3,3-Hexamethyldisilazane 999-97-3	Workers	inhalation	Acute/short term exposure -		53 mg/m3	

1	1	1	systemic effects	1	
1,1,1,3,3,3-Hexamethyldisilazane	Workers	inhalation	Long term	133 mg/m3	
999-97-3	WOIKEIS	minalation	exposure - local effects	155 hig/hi5	
1,1,1,3,3,3-Hexamethyldisilazane	Workers	inhalation	Acute/short term	133 mg/m3	
999-97-3			exposure - local effects	ice ing inc	
1,1,1,3,3,3-Hexamethyldisilazane	Workers	dermal	Long term	7,5 mg/kg	
999-97-3			exposure - systemic effects		
1,1,1,3,3,3-Hexamethyldisilazane	Workers	dermal	Acute/short term	7,5 mg/kg	
999-97-3			exposure - systemic effects		
1,1,1,3,3,3-Hexamethyldisilazane	General	inhalation	Long term	3,7 mg/m3	
999-97-3	population		exposure - systemic effects		
1,1,1,3,3,3-Hexamethyldisilazane	General	inhalation	Acute/short term	3,7 mg/m3	
999-97-3	population		exposure - systemic effects		
1,1,1,3,3,3-Hexamethyldisilazane	General	inhalation	Long term	1,7 mg/m3	
999-97-3	population		exposure - local effects		
1,1,1,3,3,3-Hexamethyldisilazane	General	inhalation	Acute/short term	1,7 mg/m3	
999-97-3	population		exposure - local effects		
1,1,1,3,3,3-Hexamethyldisilazane	General	oral	Long term	1,1 mg/kg	
999-97-3	population		exposure - systemic effects		
1,1,1,3,3,3-Hexamethyldisilazane	General	oral	Acute/short term	1,1 mg/kg	
999-97-3	population		exposure - systemic effects		
Decamethylcyclopentasiloxane	Workers	inhalation	Acute/short term	97,3 mg/m3	
541-02-6			exposure - systemic effects		
Decamethylcyclopentasiloxane	Workers	inhalation	Acute/short term	24,2 mg/m3	
541-02-6			exposure - local effects		
Decamethylcyclopentasiloxane	Workers	inhalation	Long term	97,3 mg/m3	
541-02-6			exposure - systemic effects		
Decamethylcyclopentasiloxane	Workers	inhalation	Long term	24,2 mg/m3	
541-02-6			exposure - local effects		
Decamethylcyclopentasiloxane	General	inhalation	Acute/short term	17,3 mg/m3	
541-02-6	population		exposure - systemic effects		
Decamethylcyclopentasiloxane	General	inhalation	Acute/short term	4,3 mg/m3	
541-02-6	population		exposure - local effects		
Decamethylcyclopentasiloxane	General	oral	Long term	5 mg/kg	
541-02-6	population		exposure - systemic effects		
Decamethylcyclopentasiloxane	General	inhalation	Long term	17,3 mg/m3	
541-02-6	population		exposure - systemic effects		
Decamethylcyclopentasiloxane	General	inhalation	Long term	4,3 mg/m3	
541-02-6	population		exposure - local effects		
Decamethylcyclopentasiloxane	General	oral	Acute/short term	5 mg/kg	
541-02-6	population		exposure - systemic effects		
Dodecamethylcyclohexasiloxane	Workers	inhalation	Long term	11 mg/m3	
540-97-6			exposure - systemic effects		
Dodecamethylcyclohexasiloxane	Workers	inhalation	Long term	1,22 mg/m3	
540-97-6			exposure - local effects		
Dodecamethylcyclohexasiloxane	Workers	inhalation	Acute/short term	6,1 mg/m3	
540-97-6			exposure - local effects		
Dodecamethylcyclohexasiloxane	General	inhalation	Long term	2,7 mg/m3	
540-97-6	population		exposure - systemic effects		
Dodecamethylcyclohexasiloxane	General	inhalation	Long term	0,3 mg/m3	
540-97-6	population		exposure - local effects	-	
L	1	1			

Dodecamethylcyclohexasiloxane 540-97-6	General population		Acute/short term exposure - local effects	1,5 mg/m3
Dodecamethylcyclohexasiloxane 540-97-6	General population	oral	Long term exposure - systemic effects	1,7 mg/kg
Dodecamethylcyclohexasiloxane 540-97-6	General population	oral	Acute/short term exposure - systemic effects	1,7 mg/kg

Biological Exposure Indices:

None

8.2. Exposure controls:

Engineering controls: Ensure adequate ventilation.

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 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

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: Wear protective glasses. 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 Appearance paste

Odor Odour threshold

pH Melting point Solidification temperature paste transparent Alcoholic No data available / Not applicable

No data available / Not applicable No data available / Not applicable No data available / Not applicable

Initial boiling point Flash point Evaporation rate Flammability Explosive limits Vapour pressure (21 °C (69.8 °F))	No data available / Not applicable Product is a solid. (ASTM D 4359) No data available / Not applicable No data available / Not applicable No data available / Not applicable < 13 mbar
Relative vapour density:	No data available / Not applicable
Density	1,1 g/cm3
Bulk density	No data available / Not applicable
Solubility	No data available / Not applicable
Solubility (qualitative)	Polymerises in presence of water.
(Solvent: Water)	
Solubility (qualitative)	Not determined
(Solvent: Acetone)	
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

Polymerises in presence of water.

10.2. Chemical stability

Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions See section reactivity

10.4. Conditions to avoid

No decomposition if used according to specifications. Exposure to air or moisture over prolonged periods.

10.5. Incompatible materials

See section reactivity.

10.6. Hazardous decomposition products

Methanol is liberated slowly upon exposure to moisture.

SECTION 11: Toxicological information

General toxicological information:

Prolonged or repeated contact may cause skin irritation. Prolonged or repeated contact may cause eye irritation. Methanol released during polymerisation of RTV silicones is toxic by inhalation. It is also highly flammable

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.

Hazardous substances	Value	Value	Species	Method
CAS-No.	type		_	
Silane, dimethoxydimethyl- 1112-39-6	LD50	> 2.007 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Tetraethyl silicate 78-10-4	LD50	> 2.500 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)
Octamethylcyclotetrasilox ane 556-67-2	LD50	> 4.800 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Hexamethyldisilizane 999-97-3	LD50	851 mg/kg	rat	OECD Guideline 401 (Acute Oral Toxicity)
Decamethylcyclopentasilo xane 541-02-6	LD50	> 5.000 mg/kg	rat	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)
Dodecamethylcyclohexasi loxane 540-97-6	LD50	> 2.000 mg/kg	rat	OECD Guideline 423 (Acute Oral toxicity)

Acute dermal toxicity:

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

Hazardous substances	Value	Value	Species	Method
CAS-No.	type			
Octamethylcyclotetrasilox	LD50	> 2.375 mg/kg	rat	equivalent or similar to OECD Guideline 402 (Acute
ane				Dermal Toxicity)
556-67-2				
Hexamethyldisilizane	LD50	547 mg/kg	rat	OECD Guideline 402 (Acute Dermal Toxicity)
999-97-3				
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	Value	Value	Test atmosphere		Species	Method
CAS-No.	type			time		
Octamethylcyclotetrasilox	LC50	36 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute
ane						Inhalation Toxicity)
556-67-2						-
Hexamethyldisilizane	Acute	10,1 mg/l	vapour			Expert judgement
999-97-3	toxicity					
	estimate					
	(ATE)					
Decamethylcyclopentasilo	LC50	8,67 mg/l	dust/mist	4 h	rat	OECD Guideline 403 (Acute
xane						Inhalation Toxicity)
541-02-6						

Skin corrosion/irritation:

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

Hazardous substances	Result	Exposure	Species	Method
CAS-No.		time		
Tetraethyl silicate	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
78-10-4	_			
Octamethylcyclotetrasilox	not irritating		rabbit	equivalent or similar to OECD Guideline 404 (Acute
ane				Dermal Irritation / Corrosion)
556-67-2				
Decamethylcyclopentasilo	not irritating	24 h	rabbit	equivalent or similar to OECD Guideline 404 (Acute
xane	_			Dermal Irritation / Corrosion)
541-02-6				
Dodecamethylcyclohexasi	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
loxane				
540-97-6				

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
Octamethylcyclotetrasilox ane 556-67-2	not irritating		rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Decamethylcyclopentasilo xane 541-02-6	not irritating	24 h	rabbit	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Dodecamethylcyclohexasi loxane 540-97-6	not irritating		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

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

Hazardous substances	Result	Test type	Species	Method
CAS-No.				
Tetraethyl silicate	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
78-10-4	-			
Octamethylcyclotetrasilox	not sensitising	Guinea pig maximisation	guinea pig	OECD Guideline 406 (Skin Sensitisation)
ane		test		
556-67-2				
Decamethylcyclopentasilo	not sensitising	Mouse local lymphnode	mouse	equivalent or similar to OECD Guideline
xane		assay (LLNA)		429 (Skin Sensitisation: Local Lymph
541-02-6				Node Assay)
Dodecamethylcyclohexasi	not sensitising	Guinea pig maximisation	guinea pig	OECD Guideline 406 (Skin Sensitisation)
loxane		test		
540-97-6				

Germ cell mutagenicity:

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

Hazardous substances	Result	Type of study /	Metabolic	Species	Method
CAS-No.		Route of administration	activation / Exposure time		
Tetraethyl silicate	negative	bacterial reverse	with and without		EU Method B.13/14
78-10-4		mutation assay (e.g Ames test)			(Mutagenicity)
Octamethylcyclotetrasilox	negative	bacterial gene	with and without		OECD Guideline 471
ane 556-67-2		mutation assay			(Bacterial Reverse Mutation Assay)
Octamethylcyclotetrasilox	negative	in vitro mammalian chromosome	with and without		equivalent or similar to OECD Guideline 473 (In vitro
ane 556-67-2		aberration test			Mammalian Chromosome
000 07 2					Aberration Test)
Octamethylcyclotetrasilox	negative	mammalian cell	with and without		equivalent or similar to OECD
ane 556-67-2		gene mutation assay			Guideline 476 (In vitro Mammalian Cell Gene
550-07-2					Mutation Test)
Hexamethyldisilizane	negative	bacterial reverse	with and without		OECD Guideline 471
999-97-3	-	mutation assay (e.g			(Bacterial Reverse Mutation
**		Ames test)			Assay)
Hexamethyldisilizane 999-97-3	negative	mammalian cell gene mutation assay	with and without		OECD Guideline 476 (In vitro Mammalian Cell Gene
<i>999-91-5</i>		gene inutation assay			Mutation Test)
Decamethylcyclopentasilo	negative	bacterial reverse	with and without		OECD Guideline 471
xane	-	mutation assay (e.g			(Bacterial Reverse Mutation
541-02-6		Ames test)			Assay)
Decamethylcyclopentasilo xane	negative	in vitro mammalian chromosome	with and without		OECD Guideline 473 (In vitro Mammalian Chromosome
541-02-6		aberration test			Aberration Test)
Decamethylcyclopentasilo	negative	mammalian cell	with and without		OECD Guideline 476 (In vitro
xane		gene mutation assay			Mammalian Cell Gene
541-02-6		1 . 1			Mutation Test)
Dodecamethylcyclohexasi loxane	negative	bacterial reverse mutation assay (e.g	with and without		OECD Guideline 471 (Bacterial Reverse Mutation
540-97-6		Ames test)			Assay)
Dodecamethylcyclohexasi	negative	mammalian cell	with and without		OECD Guideline 476 (In vitro
loxane		gene mutation assay			Mammalian Cell Gene
540-97-6 Octamethylcyclotetrasilox	negative	inhalation			Mutation Test)
ane	negative	minaration		rat	equivalent or similar to OECD Guideline 475 (Mammalian
556-67-2					Bone Marrow Chromosome
					Aberration Test)
Octamethylcyclotetrasilox	negative	oral: gavage		rat	equivalent or similar to OECD
ane 556-67-2					Guideline 478 (Genetic Toxicology: Rodent Dominant
550-07-2					Lethal Test)
Decamethylcyclopentasilo	negative	inhalation		rat	OECD Guideline 486
xane	-				(Unscheduled DNA Synthesis
541-02-6					(UDS) Test with Mammalian
Decamethylcyclopentasilo	negative	inhalation: vapour		rat	Liver Cells in vivo) OECD Guideline 474
xane	negative	minaration. vapour		Tai	(Mammalian Erythrocyte
541-02-6					Micronucleus Test)
Dodecamethylcyclohexasi	negative	intraperitoneal		mouse	OECD Guideline 474
loxane					(Mammalian Erythrocyte
540-97-6					Micronucleus Test)

Carcinogenicity

No data available.

Reproductive toxicity:

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

Hazardous 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 $>= 160$ ppm	two-	inhalation:	rat	EPA OPPTS 870.3800
xane		generation	vapour		(Reproduction and Fertility
541-02-6	NOAEL F1 >= 160 ppm	study			Effects)
	NOAEL F2 >= 160 ppm				
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
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)
Octamethylcyclotetrasilox ane 556-67-2	NOAEL 960 mg/kg	dermal	3 w 5 d/w	rabbit	equivalent or similar to OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
Decamethylcyclopentasilo xane 541-02-6	NOAEL >= 1.000 mg/kg	oral: gavage	13 w daily	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
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.

12.1. Toxicity

Toxicity (Fish):

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		_		
Tetraethyl silicate	LC50	> 245 mg/l	96 h	Brachydanio rerio (new name:	EU Method C.1 (Acute
78-10-4				Danio rerio)	Toxicity for Fish)
Octamethylcyclotetrasiloxane	NOEC	0,0044 mg/l	93 d	Salmo gairdneri (new name:	other guideline:
556-67-2		-		Oncorhynchus mykiss)	_
Octamethylcyclotetrasiloxane	LC50		96 h	Oncorhynchus mykiss	EPA OTS 797.1400 (Fish
556-67-2					Acute Toxicity Test)
Hexamethyldisilizane	LC50	88 mg/l	96 h	Brachydanio rerio (new name:	OECD Guideline 203 (Fish,
999-97-3				Danio rerio)	Acute Toxicity Test)
Decamethylcyclopentasiloxan	LC50		96 h	Leuciscus idus	OECD Guideline 203 (Fish,
e					Acute Toxicity Test)
541-02-6					
Decamethylcyclopentasiloxan	NOEC		90 d	Oncorhynchus mykiss	OECD Guideline 210 (fish
e					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		-	-	
Silane, dimethoxydimethyl-	EC50	> 100 mg/l	48 h	Daphnia magna	OECD Guideline 202
1112-39-6					(Daphnia sp. Acute
					Immobilisation Test)
Tetraethyl silicate	EC50	> 75 mg/l	48 h	Daphnia magna	OECD Guideline 202
78-10-4					(Daphnia sp. Acute
					Immobilisation Test)
Octamethylcyclotetrasiloxane	EC50		48 h	Daphnia magna	EPA OTS 797.1300
556-67-2					(Aquatic Invertebrate Acute
					Toxicity Test, Freshwater
					Daphnids)
Hexamethyldisilizane	EC50	80 mg/l	48 h	Daphnia magna	OECD Guideline 202
999-97-3					(Daphnia sp. Acute
					Immobilisation Test)
Decamethylcyclopentasiloxan	EC50		48 h	Daphnia magna	OECD Guideline 202
e					(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.

Hazardous substances	Value	Value	Exposure time	Species	Method
CAS-No.	type				
Octamethylcyclotetrasiloxane	NOEC	7.9 μg/l	21 d	Daphnia magna	EPA OTS 797.1330
556-67-2					(Daphnid Chronic Toxicity
					Test)
Decamethylcyclopentasiloxan	NOEC		21 d	Daphnia magna	OECD 211 (Daphnia
e					magna, Reproduction Test)
541-02-6					
Dodecamethylcyclohexasiloxa	NOEC			Daphnia magna	OECD 211 (Daphnia
ne					magna, Reproduction Test)
540-97-6					

Toxicity (Algae):

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		•	•	
Tetraethyl silicate	NOEC	22 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga,
78-10-4					Growth Inhibition Test)
Tetraethyl silicate	EC50	> 22 mg/l	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga,
78-10-4					Growth Inhibition Test)
Octamethylcyclotetrasiloxane	EC50		96 h	Selenastrum capricornutum	EPA OTS 797.1050 (Algal
556-67-2				(new name: Pseudokirchneriella	Toxicity, Tiers I and II)
				subcapitata)	
Octamethylcyclotetrasiloxane	NOEC	< 0,022 mg/l	96 h	Selenastrum capricornutum	EPA OTS 797.1050 (Algal
556-67-2				(new name: Pseudokirchneriella subcapitata)	Toxicity, Tiers I and II)
Hexamethyldisilizane	NOEC	2,7 mg/l	72 h	Scenedesmus subspicatus (new	OECD Guideline 201 (Alga,
999-97-3				name: Desmodesmus	Growth Inhibition Test)
				subspicatus)	
Hexamethyldisilizane	EC50	19 mg/l	72 h	Scenedesmus subspicatus (new	OECD Guideline 201 (Alga,
999-97-3				name: Desmodesmus	Growth Inhibition Test)
				subspicatus)	
Decamethylcyclopentasiloxan	NOEC		96 h	Selenastrum capricornutum	OECD Guideline 201 (Alga,
e 541-02-6				(new name: Pseudokirchneriella subcapitata)	Growth Inhibition Test)
Decamethylcyclopentasiloxan	EC50		96 h	Selenastrum capricornutum	OECD Guideline 201 (Alga,
e				(new name: Pseudokirchneriella	Growth Inhibition Test)
541-02-6				subcapitata)	
Dodecamethylcyclohexasiloxa	NOEC			Pseudokirchneriella subcapitata	
ne					Growth Inhibition Test)
540-97-6					
Dodecamethylcyclohexasiloxa	EC50			Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga,
ne					Growth Inhibition Test)
540-97-6				L	

Toxicity to microorganisms

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				
Tetraethyl silicate	EC50	> 100 mg/l	3 h	activated sludge of a	OECD Guideline 209
78-10-4		-		predominantly domestic sewage	(Activated Sludge,
					Respiration Inhibition Test)
Octamethylcyclotetrasiloxane	EC50		3 h	activated sludge	ISO 8192 (Test for
556-67-2				_	Inhibition of Oxygen
					Consumption by Activated
					Sludge)
Decamethylcyclopentasiloxan	EC0	> 10.000 mg/l	30 min	Pseudomonas putida	DIN 38412, part 27
e		_		_	(Bacterial oxygen
541-02-6					consumption test)

12.2. Persistence and degradability

The product is not biodegradable.

Hazardous substances CAS-No.	Result	Test type	Degradability	Exposure time	Method
Silane, dimethoxydimethyl- 1112-39-6	not readily biodegradable.	aerobic	0 %	28 d	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test)
Tetraethyl silicate 78-10-4	readily biodegradable	aerobic	98 %	28 d	OECD Guideline 301 A (old version) (Ready Biodegradabiltiy: Modified AFNOR Test)
Octamethylcyclotetrasiloxane 556-67-2	not readily biodegradable.	aerobic	3,7 %	29 d	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels (Headspace Test)
Hexamethyldisilizane 999-97-3	not readily biodegradable.	no data	15,3 %	28 d	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle 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

No data available.

Hazardous substances CAS-No.	Bioconcentratio n factor (BCF)	Exposure time	Temperature	Species	Method
Octamethylcyclotetrasiloxane 556-67-2	12.400	28 d		Pimephales promelas	EPA OTS 797.1520 (Fish Bioconcentration Test-Rainbow Trout)
Decamethylcyclopentasiloxan 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 Test)

12.4. Mobility in soil

Cured adhesives are immobile.

Hazardous substances CAS-No.	LogPow	Temperature	Method
Silane, dimethoxydimethyl- 1112-39-6	2		EU Method A.8 (Partition Coefficient)
Tetraethyl silicate 78-10-4	0,04		QSAR (Quantitative Structure Activity Relationship)
Octamethylcyclotetrasiloxane 556-67-2	6,488	25,1 °C	OECD Guideline 123 (Partition Coefficient (1-Octanol / Water), Slow- Stirring Method)
Decamethylcyclopentasiloxan e 541-02-6	8,023	25,3 °C	OECD Guideline 123 (Partition Coefficient (1-Octanol / Water), Slow- Stirring Method)
Dodecamethylcyclohexasiloxa ne 540-97-6	8,87	23,6 °C	not specified

12.5. Results of PBT and vPvB assessment

Hazardous substances	PBT / vPvB	
CAS-No.		
Tetraethyl silicate	According to Annex XIII of regulation (EC) 1907/2006 a PBT and vPvB assessment shall not	
78-10-4	be conducted for inorganic substances.	
Octamethylcyclotetrasiloxane	Fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very	
556-67-2	Bioaccumulative (vPvB) criteria.	
Hexamethyldisilizane	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very	
999-97-3	Bioaccumulative (vPvB) criteria.	
Decamethylcyclopentasiloxane	very Persistent and very Bioaccumulative (vPvB)	
541-02-6		
Dodecamethylcyclohexasiloxane	xane 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:

Dispose of in accordance with local and national regulations.

Contribution of this product to waste is very insignificant in comparison to article in which it is used Collection and delivery to recycling enterprise or other registered elimination institution.

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.

Disposal must be made according to official regulations.

Waste code

08 04 09 waste adhesives and sealants containing organic solvents and other dangerous substances 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.	Special 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
	not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture VOC content <5 % (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:
 - H225 Highly flammable liquid and vapor.
 - H226 Flammable liquid and vapor.
 - H302 Harmful if swallowed.
 - H311 Toxic in contact with skin.
 - H319 Causes serious eye irritation.
 - H332 Harmful if inhaled.
 - H335 May cause respiratory irritation.
 - H361f Suspected of damaging fertility.
 - H412 Harmful to aquatic life with long lasting effects.
 - H413 May cause long lasting harmful effects to aquatic life.

Further information:

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