

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

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**Heat Trace Sealant TB40ML EN**

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

**1.1 Product identifier:**

HEAT TRACE SEALANT TB40ML EN

**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:**

Heat Trace Limited  
Mere's Edge  
Chester Road  
Helsby  
WA6 0DJ  
Great Britain

Phone: +44 1928 726451

[info@heat-trace.com](mailto:info@heat-trace.com)

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture:**

**Classification (CLP):**

Skin sensitizer	Category 1
H317 May cause an allergic skin reaction	
Serious eye damage	Category 1
H318 Causes serious eye irritation	
Carcinogenicity	Category 1B
H351 May cause cancer	
Specific target organ toxicity – single exposure	Category 2
H371 May cause damage to organs	

## 2.2 Label elements (CLP):

### Hazard Pictogram:



**Contains** Silicon compounds.

2-butanone oxime

**Signal word:** Danger

**Hazard statement:**

H317	May cause and allergic skin reaction
H318	Causes serious eye irritation
H350	May cause cancer
H371	May cause damage to organs

**Supplemental information:** Restricted to professional users.

**Precautionary statement:** P201 Obtain special instructions before use.

**Prevention** P280 Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary statement:** P305+ P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Response** P308+P313 IF exposed or concerned: Get medical advice/attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

## 2.3 Other hazards:

None if used properly.

Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

Self-classification according to Article 12(b) of (EU) 1272/2008.

**Following substances are present in a concentration  $\geq 0,1\%$  and fulfill the criteria for PBT/vPvB, or were identified as endocrine disruptor (ED):**

octamethylcyclotetrasiloxane 556-67-2	PBT/vPvB
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**SECTION 3: Composition/information on ingredients**
**3.1 Mixtures**
**Declaration of the ingredients according to CLP (EC) No 1272/2008:**

Hazardous components CAS-No.	Concentration	Classification	Specific Conc. Limits, M-Factors and ATEs	Additional information
Silicon Compounds	1 - < 5%	Skin Sens. 1, H317 Eye Dam. 1, H318 STOT RE 2, H373		
2-butanone oxime 96-29-7 202-496-6 01-2119539477-28	1 - < 3 %	STOT SE 3, H336 STOT RE 2, H373 Skin Irrit 2, H315 Eye Dam 1, H318 STOT SE 1, H317 Carc. 1B, H350 Acute Tox. 4, Oral, H301 Acute Tox.4,Dermal, H312	Dermal: ATE = 1.100 mg/kg  Oral: ATE = 100mg/kg	
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 3, H412 Skin Irrit. 2, H315		
Hexamethyldisilizane 999-97-3 213-668-5 01-2119438176-38	0.1- < 1%	Flam. Liq. 2, H225 Acute Tox. 4, Oral, H302 Acute Tox.4,Dermal, H311 Acute Tox.4,Inhalation,H332 Aquatic Chronic 3, H412	Inhalation: ATE = 10,1 Mg/1; vapour	
Octamethylcyclotetrasioxane 556-67-2 209-136-7 01-2119529238-36	0,01 - < 0,1%	Aquatic Chronic 1, H410 Repr. 2, H361f Flam. Liq. 3, H226	M chronic = 10	SVHC PBT/vPvB

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:**

SKIN: Rash, Urticaria.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

**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 (CO<sub>2</sub>) and nitrogen oxides (NO<sub>x</sub>) 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.

Wear protective equipment

Ensure adequate ventilation

**6.2 Environmental precautions:**

Do not empty into drains / surface water / ground water

**6.3 Methods and material for containment and cleaning up:**

Scrape up as much material as possible.

Sweep up spilled material. Avoid creating dust.

Store in a partly filled, closed container until disposal.

Dispose of contaminated material as waste according to Section 13.

**Reference to other sections:**

See advice in section 8.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling:**

Avoid skin 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:**

Ensure good ventilation/extraction

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)	ppm	Mg/m <sup>3</sup>	Value Type	Short term exposure limit category/ remarks	Regulatory list
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
Diiron trioxide 1309-37-1 (ROUGE, RESPIRABLE)		4	Time Weighted Average (TWA):		EH40 WEL
Diiron trioxide 1309-37-1 (ROUGE, TOTAL INHALABLE)		10	Time Weighted Average (TWA):		EH40 WEL
Diiron trioxide 1309-37-1 (IRON OXIDE, FUME (AS FE))		5	Time Weighted Average (TWA):		EH40 WEL
Diiron trioxide 1309-37-1 (IRON OXIDE, FUME (AS FE))		10	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL
Mica 12001-26-2 (MICA, RESPIRABLE)		0,8	Time Weighted Average (TWA):		EH40 WEL
Mica 12001-26-2 (MICA, TOTAL INHALABLE)		10	Time Weighted Average (TWA):		EH40 WEL
Dinethylbis [(1-oxoneodecyl) oxy]stannane 68928-76-7 [TIN COMPOUNDS, ORGANIC, EXCEPT CYHEXATIN (ISO), (AS SN)]		0,1	Time Weighted Average (TWA):		EH40 WEL
Dinethylbis [(1-oxoneodecyl) oxy]stannane 68928-76-7 [TIN COMPOUNDS, ORGANIC, EXCEPT CYHEXATIN (ISO), (AS SN)]			Skin designation:	Can be absorbed through the skin.	EH40 WEL
Dinethylbis [(1-oxoneodecyl) oxy]stannane 68928-76-7 [TIN COMPOUNDS, ORGANIC, EXCEPT CYHEXATIN (ISO), (AS SN)]		0,2	Short Term Exposure Limit (STEL):	15 minutes	EH40 WEL

## Occupational Exposure Limits

Valid for: **Ireland**

Ingredient (Regulated Substance)	ppm	Mg/m <sup>3</sup>	Value Type	Short term exposure limit category/ remarks	Regulatory list
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 [DUSTS NON-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 [DUSTS NON-SPECIFIC]		4	Time Weighted Average (TWA):		IR_OEL
Diiron trioxide 1309-37-1 [IRON OXIDE]		5	Time Weighted Average (TWA):		IR_OEL
Diiron trioxide 1309-37-1 [ROUGE, RESPIRABLE DUST]		4	Time Weighted Average (TWA):		IR_OEL
Diiron trioxide 1309-37-1 [IRON OXIDE]		10	Short Term Exposure Limit (STEL):	15 minutes	IR_OEL
Diiron trioxide 1309-37-1 [ROUGE]		10	Time Weighted Average (TWA):		IR_OEL
Butanone oxime 96-29-7 [METHYL ETHYL KETOXIME]	3	10	Time Weighted Average (TWA):		IR_OEL
Butanone oxime 96-29-7 [METHYL ETHYL KETOXIME]	10	33	Short Term Exposure Limit (STEL):	15 minutes	IR_OEL
Mica 12001-26-2 [MICA, (RESPIRABLE FRACTION)]		3	Time Weighted Average (TWA):		IR_OEL
Mica 12001-26-2 [MICA]		3	Time Weighted Average (TWA):		IR_OEL
Dinethylbis [(1-oxoneodecyl) oxy]stannane 68928-76-7 [TIN ORGANIC COMPOUNDS]		0,2	Short Term Exposure Limit (STEL):	15 minutes Indicative OELV	IR_OEL
Dinethylbis [(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	Environmental Compartment	Exposure Period	Value				Remarks
			mg/l	ppm	mg/kg	others	
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 999-97-3	Soil				0,22 mg/kg		
1,1,1,3,3,3-Hexamethyldisilazane 999-97-3	Sewage treatment plant (STP)		67 mg/l				
Octamethylcyclotetrasiloxane 556-67-2	Aqua (freshwater)		0,0015 mg/l				
Octamethylcyclotetrasiloxane 556-67-2	Aqua (marine water)		0,00015 mg/l				
Octamethylcyclotetrasiloxane 556-67-2	Sewage treatment plant (STP)		10 mg/l				
Octamethylcyclotetrasiloxane 556-67-2	Sediment (freshwater)				3 mg/kg		
Octamethylcyclotetrasiloxane 556-67-2	Sediment (marine water)				0,3 mg/kg		
Octamethylcyclotetrasiloxane 556-67-2	Oral				41 mg/kg		
Octamethylcyclotetrasiloxane 556-67-2	Soil				0,54 mg/kg		

**Derived No-Effect Level (DNEL):**

Name on List	Application Area	Route of Exposure	Health Effect	Exposure Time	Value	Remarks
1,1,1,3,3,3-Hexamethyldisilazane 999-97-3	Workers	Inhalation	Long term exposure-systemic effects		53 mg/m <sup>3</sup>	
1,1,1,3,3,3-Hexamethyldisilazane 999-97-3	Workers	Inhalation	Acute/short term exposure – systemic effects		53 mg/m <sup>3</sup>	
1,1,1,3,3,3-Hexamethyldisilazane 999-97-3	Workers	Inhalation	Long term exposure-systemic effects		133 mg/m <sup>3</sup>	
1,1,1,3,3,3-Hexamethyldisilazane 999-97-3	Workers	Inhalation	Acute/short term exposure – local effects		133 mg/m <sup>3</sup>	
1,1,1,3,3,3-Hexamethyldisilazane 999-97-3	Workers	Dermal	Long term exposure-systemic effects		7,5 mg/kg	
1,1,1,3,3,3-Hexamethyldisilazane 999-97-3	Workers	Dermal	Acute/short term exposure – systemic effects		7,5 mg/kg	
1,1,1,3,3,3-Hexamethyldisilazane 999-97-3	General population	Inhalation	Long term exposure-systemic effects		3,7 mg/m <sup>3</sup>	
1,1,1,3,3,3-Hexamethyldisilazane 999-97-3	General population	Inhalation	Acute/short term exposure – systemic effects		3,7 mg/m <sup>3</sup>	
1,1,1,3,3,3-Hexamethyldisilazane 999-97-3	General population	Inhalation	Long term exposure-local effects		1,7 mg/m <sup>3</sup>	
1,1,1,3,3,3-Hexamethyldisilazane 999-97-3	General population	Inhalation	Acute/short term exposure – local effects		1,7 mg/m <sup>3</sup>	
1,1,1,3,3,3-Hexamethyldisilazane 999-97-3	General population	Oral	Long term exposure-systemic effects		1,1 mg/kg	
1,1,1,3,3,3-Hexamethyldisilazane 999-97-3	General population	Oral	Acute/short term exposure – systemic effects		1,1 mg/kg	
Octamethylcyclotetrasiloxane 556-67-2	Workers	Inhalation	Long term exposure-systemic effects		73 mg/m <sup>3</sup>	
Octamethylcyclotetrasiloxane 556-67-2	Workers	Inhalation	Long term exposure-local effects		73 mg/m <sup>3</sup>	
Octamethylcyclotetrasiloxane 556-67-2	General population	Inhalation	Long term exposure-systemic effects		13 mg/m <sup>3</sup>	
Octamethylcyclotetrasiloxane 556-67-2	General population	Inhalation	Long term exposure-local effects		13 mg/m <sup>3</sup>	
Octamethylcyclotetrasiloxane 556-67-2	General population	Oral	Long term exposure-systemic effects		3,7 mg/kg	

**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:  $\geq 0.4$  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 shorter than the permeation time determined in accordance with EN 374 as a result of 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 side shields 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.

### Advice to personal protective equipment:

This 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:

Physical state	Solid
Delivery form	Currently under determination
Colour	Copper
Odour	Odourless
Melting point	Currently under determination
Initial boiling point	Currently under determination
Flammability	Currently under determination
Explosive Limits	Currently under determination
Flash point	>93°C (>199.4°F); Tagliabue closed cup
Auto-ignition temperature	Currently under determination
Decomposition temperature	Currently under determination
pH	Not applicable, Product is non-soluble (in water)
Viscosity (kinematic)	Not applicable, Product is a solid
Solubility (qualitative) (Solvent: Water)	Polymerises in presence of water
Partition coefficient; n-octanol/water	Currently under determination
Vapor pressure	< 5mm hg
Density	1,03 – 1,06 g/cm <sup>3</sup> None
Relative vapour density	Heavier than air
Particle characteristics	Currently under determination

### 9.2 Other information:

Other information not applicable for this product.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity:

Reacts with oxidants, acids, and lye's.

### 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**
**General toxicological information:**

Methylethyl ketoxime released during polymerisation of oxime curing RTV silicones is irritating to the respiratory system. Methylethyl ketoxime released during polymerisation of oxime curing silicones. It is harmful in contact with skin and is a skin sensitizer.

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
**Acute oral 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	Species	Method
Silicon compounds	LD50	>2.000 mg/kg	Rat	OECD Guideline 401 (Acute Oral Toxicity)
2-butanone oxime 96-29-7	Acute toxicity estimate (ATE)	100 mg/kg		Expert judgement
Dimethyltindineodecanoate 68928-76-7	LD50	892 mg/kg	Rat	OECD Guideline 401 (Acute Oral Toxicity)
Hexamethyldisilizane 999-97-3	LD50	851 mg/kg	Rat	OECD Guideline 401 (Acute Oral Toxicity)
Octamethylcyclotetrasiloxane 556-67-2	LD50	>4.800 mg/kg	Rat	Equivalent or similar to OECD Guideline 401 (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 CAS-No.	Value type	Value	Species	Method
Silicon compounds	LD50	>2.000 mg/kg	Rat	OECD Guideline 402 (Acute Dermal Toxicity)
2-butanone oxime 96-29-7	Acute toxicity estimate (ATE)	1.100 mg/kg		Expert judgement
Dimethyltindineodecanoate 68928-76-7	LD50	>2.000 mg/kg	Rat	OECD Guideline 402 (Acute Dermal Toxicity)
Hexamethyldisilizane 999-97-3	LD50	547 mg/kg	Rat	OECD Guideline 402 (Acute Dermal Toxicity)
Octamethylcyclotetrasiloxane 556-67-2	LD50	>2.375 mg/kg	Rat	Equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)

**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
2-butanone oxime 96-29-7	LC50	>20 mg/l	Not specified	4 hours	Not specified	Not specified
Hexamethyldisilizane 999-97-3	Acute toxicity estimate (ATE)	10,1 mg/l	Vapour			Expert judgement
Octamethylcyclotetrasiloxane 556-67-2	LC50	36 mg/l	Dust / Mist	4 hours	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
Dimethyltindineodecanoate 68928-76-7	Irritating or corrosive	15 minutes	Human EpiSkin™ (SM) Reconstructed Human Epidermis (RHE)	OECD Guideline 439 (In Vitro Skin Irritation: Reconstructed Human Epidermis (RHE) Test Method)
Dimethyltindineodecanoate 68928-76-7	Not Corrosive	1 hour	Human EpiDerm™ SIT (EPI-200) Reconstructed Human Epidermis (RHE)	OECD Guideline 439 (In Vitro Skin Corrosion: Reconstructed Human Epidermis (RHE) Test Method)
Octamethylcyclotetrasiloxane 556-67-2	Not Irritating		Rabbit	Equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation/Corrosion)

**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
2-butanone oxime 96-29-7	Category 1 (irreversible effects on the eye)		Rabbit	OECD Guideline 405 (Acute Eye Irritation/Corrosion)
Dimethyltindineodecanoate 68928-76-7	Not irritating		Bovine, cornea, in vitro test	OECD Guideline 437 (BCOP)
Octamethylcyclotetrasiloxane 556-67-2	Not irritating		Rabbit	Equivalent or similar to OECD Guideline 405 (Acute Eye Irritation/Corrosion)

**Respiratory or Skin Sensitisation:**

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
Silicon compounds	Sensitising	Guinea pig maximization test	Guinea pig	OECD Guideline 406 (Skin Sensititation)
2-butanone oxime 96-29-7	Sensitising	Guinea pig maximization test	Guinea pig	OECD Guideline 406 (Skin Sensititation)
Octamethylcyclotetrasiloxane 556-67-2	Not Sensitising	Guinea pig maximization test	Guinea pig	OECD Guideline 406 (Skin Sensititation)

**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
Silicon compounds	Negative	Bacterial reverse mutation assay (e.g. Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
2-butanone oxime 96-29-7	Negative	Bacterial reverse mutation assay (e.g. Ames test)	with and without		EPA OPPTS 870.5265 (The Salmonella typhimurium Bacterial Reverse Mutation test)
2-butanone oxime 96-29-7	Negative	Mammalian cell gene mutation assay	with		OECD Guideline 476 (Invitro Mammalian Cell Gene Mutation test)
2-butanone oxime 96-29-7	Negative	DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro			OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian cells in vitro)
Hexamethyldisilizane 999-97-3	Negative	Bacterial reverse mutation assay (e.g. Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Hexamethyldisilizane 999-97-3	Negative	Mammalian cell gene mutation assay	with and without		OECD Guideline 476 (Invitro Mammalian Cell Gene Mutation test)
Octamethylcyclotetrasiloxane 556-67-2	Negative	Bacterial gene mutation assay	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Octamethylcyclotetrasiloxane 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)
Octamethylcyclotetrasiloxane 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)
Silicon compounds	Negative	Intraperitoneal		Mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus test)
2-butanone oxime 96-29-7	Negative	Oral: gavage		Rat	EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic tests: Bone Marrow Chromosomal Analysis)
2-butanone oxime 96-29-7	Negative	Oral: feed		Drosophila melanogaster	EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic tests: Bone Marrow Chromosomal Analysis)
Octamethylcyclotetrasiloxane 556-67-2	Negative	Inhalation		Rat	Equivalent or similar to OECD Guideline 475 (Mammalian Bone Marrow Chromosome Aberration test)
Octamethylcyclotetrasiloxane 556-67-2	Negative	Oral: gavage		Rat	Equivalent or similar to OECD Guideline 478 (Genetic Toxicology: Rodent Dominant Lethal test)

**Carcinogenicity:**

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

Hazardous substances CAS-No.	Result	Route of application	Exposure time/ Frequency of treatment	Species	Sex	Method
2-butanone oxime 96-29-7	Carcinogenic	Inhalation: Vapour	3-18 minutes 6 h/d, 5d/w	Mouse	Male	EPA OTS 798.3300 (Carcinogenicity)

**Reproductive toxicity:**

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

Hazardous substances CAS-No.	Result/ Value	Test Type	Route of application	Species	Method
2-butanone oxime 96-29-7	NOAEL F1 $\geq$ 200 mg/kg NOAEL F2 $\geq$ 200mg/kg	Two-generation study	Oral: gavage	Rat	No Specified
Octamethylcyclotetrasiloxane 556-67-2	NOAEL P 300 ppm NOAEL F1 300 ppm	Two-generation study	Inhalation	Rat	Equivalent or similar to OECD Guideline 416 (Two-Generation Reproduction Toxicity Study)

**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
Silicon compounds	NOAEL 10 mg/kg	Oral: gavage		Rat	OECD Guideline 422 (Combined repeated dose toxicity study with the Reproduction/Development Toxicity screening test)
2-butanone oxime 96-29-7	LOAEL 40 mg/kg	Oral: gavage	5 days/week for 13 weeks	Rat	EPA OPPTS 870.3100 (90-day Oral toxicity in Rodents)
Octamethylcyclotetrasiloxane 556-67-2	LOAEL 35 PPM	Inhalation	6h nose only inhalation 5 days/week for 13 weeks	Rat	OECD Guideline 412 (Repeated dose Inhalation Toxicity: 28/14 - day)
Octamethylcyclotetrasiloxane 556-67-2	NOAEL 960 mg/kg	Dermal	5 days/week for 3 weeks	Rabbit	Equivalent or similar to OECD Guideline 410 (Repeated Dose Dermal toxicity: 21/28 – day study)

**Aspiration hazard:**

No data available

**11.2 Information on other hazards:**

Not applicable

**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.

Hazardous Substances CAS-No.	Value Type	Value	Exposure time	Species	Method
2-butanone oxime 96-29-7	LC50	320 – 1.000 mg/l	96 hours	Leuciscus idus	DIN 38412 – 15
2-butanone oxime 96-29-7	NOEC	50 mg/l	14 days	Oryzias latipes	OECD Guideline 204 (Fish, Prolonged Toxicity test: 14 day study)
Hexamethyldisilazane 999-97-3	LC50	88 mg/l	96 hours	Brachydanio rerio (new name Danio rerio)	OECD Guideline 203 (Fish, Acute Toxicity test)
Octamethylcyclotetrasiloxane 556-67-2	NOEC	0,0044 mg/l	93 days	Salmo gairdneri (New name Oncorhynchus mykiss)	EPS OPPTS 797.1600 (Fish, Early Life Stage Toxicity test)
Octamethylcyclotetrasiloxane 556-67-2	LC50	Toxicity > Water solubility	96 hours	Oncorhynchus mykiss	EPA OTS 797.1400 (Fish Acute Toxicity Test)

**Toxicity (Daphnia):**

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

Hazardous Substances CAS-No.	Value Type	Value	Exposure time	Species	Method
2-butanone oxime 96-29-7	EC50	>500 mg/l	48 hours	Daphnia magna	EU Method C.2 (Acute Toxicity for Daphnia)
Dimethyltindineodecanoate 68928-76-7	EC50	39 mg/l	48 hours	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation test)
Hexamethyldisilazane 999-97-3	EC50	80 mg/l	48 hours	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation test)
Octamethylcyclotetrasiloxane 556-67-2	EC50	Toxicity > Water Solubility	48 hours	Daphnia magna	EPS OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)

**Chronic Toxicity to Aquatic Invertebrates**

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

Hazardous Substances CAS-No.	Value Type	Value	Exposure time	Species	Method
2-butanone oxime 96-29-7	NOEC	>100 mg/l	21 days	Daphnia magna	OECD 211 (Daphnia magna, Reproduction test)
Octamethylcyclotetrasiloxane 556-67-2	NOEC	7.9 µg/l	21 days	Daphnia magna	EPS OTS 797.1330 (Daphnid Chronic Toxicity test)

**Toxicity (Algae):**

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

Hazardous Substances CAS-No.	Value Type	Value	Exposure time	Species	Method
2-butanone oxime 96-29-7	EC50	11,8 mg/l	72 hours	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition test)
2-butanone oxime 96-29-7	NOEC	2,56 mg/l	72 hours	Scenedesmus capricornutum	OECD Guideline 201 (Alga, Growth Inhibition test)
Dimethyltindineodecanoate 68928-76-7	EC50	7,6 mg/l	72 hours	Raphidocelis subcapitata (new name Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition test)
Dimethyltindineodecanoate 68928-76-7	NOEC	1,2 mg/l	72 hours	Raphidocelis subcapitata (new name Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition test)
Hexamethyldisilizane 999-97-3	NOEC	2,7 mg/l	72 hours	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition test)
Hexamethyldisilizane 999-97-3	EC50	19 mg/l	72 hours	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition test)
Octamethylcyclotetrasiloxane 556-67-2	EC50	Toxicity > Water Solubility	96 hours	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
Octamethylcyclotetrasiloxane 556-67-2	EC10	0,022 mg/l	96 hours	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)

**Toxicity to Microorganisms**

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

Hazardous Substances CAS-No.	Value Type	Value	Exposure time	Species	Method
2-butanone oxime 96-29-7	EC10	177 mg/l	17 hours		DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm Test)
Octamethylcyclotetrasiloxane 556-67-2	EC10	Toxicity > Water solubility	3 hours	Activated sludge	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)

**12.2 Persistence and degradability**

Hazardous Substances CAS-No.	Result	Test Type	Degradability	Exposure Time	Method
Silicon compounds	Not readily biodegradable	Aerobic	28%	28 days	OECD Guideline 301 C (Ready Biodegradability: Modified MITI test (I))
2-butanone oxime 96-29-7	Inherently biodegradable	Aerobic	70%	14 days	OECD Guideline 302 B (Inherent biodegradability: Zahn- Wellens/EMPA test)
Dimethyltindineodecanoate 68928-76-7	Not readily biodegradable	Aerobic	0%	28 days	OECD Guideline 301 B (Ready Biodegradability: CO2 Evolution Test)
Hexamethyldisilizane 999-97-3	Not readily biodegradable	No data	15,3%	28 days	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Octamethylcyclotetrasiloxane 556-67-2	Not readily biodegradable	Aerobic	3,7%	29 days	OECD Guideline 310 (Ready Biodegradability: CO2 in Sealed Vessels (Headspace) Test)



### 12.3 Bioaccumulative potential

Hazardous components CAS-No.	Bioconcentration factor (BCF)	Exposure time	Temperature	Species	Method
2-butanone oxime 96-29-7	0,5 – 0,6	42 days	25°C	Oryzias latipes	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
Octamethylcyclotetrasiloxane 556-67-2	12.400	28 days		Pimephales promelas	EPA OTS 797.1520 (Fish Bioconcentration Test – Rainbow Trout)

### 12.4 Mobility in Soil

Hazardous Substances CAS-No.	LogPow	Temperature	Method
2-butanone oxime 96-29-7	0,65	25°C	OECD Guideline 107 (Partition Coefficient (n-octanol/water), Shake Flask Method)
Dimethyltindineodecanoate 68928-76-7	5,5		QSAR (Quantative Structure Activity Relationship)
Octamethylcyclotetrasiloxane 556-67-2	6,98	21,7°C	Other guideline:

### 12.5 Results of PBT and vPvB assessment

Hazardous components CAS- No.	PBT/vPvB
2-butanone oxime 96-29-7	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Dimethyltindineodecanoate 68928-76-7	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Hexamethyldisilizane 999-97-3	Not fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.
Octamethylcyclotetrasiloxane 556-67-2	Fulfilling Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB) criteria.

### 12.6 Endocrine disrupting properties

Not applicable

### 12.7 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 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 Maritime Transport in bulk according to IMO instruments

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 649/20012): Not Applicable

Persistent Organic pollutants (Regulation (EU) 2019/1021): Not Applicable

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 vapour
H226	Flammable liquid and vapour
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H350	May cause cancer
H361d	Suspected of damaging the unborn child
H361f	Suspected of damaging fertility
H370	Causes damage to organs
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
H412	Harmful to aquatic life with long lasting effects

ED:	Substance identified as having endocrine disrupting properties
EU OEL:	Substance with a Union workplace exposure limit
EU EXPLD 1:	Substance listed in Annex I, Reg (EC) No. 2019/1148
EU EXPLD 2:	Substance listed in Annex II, Reg (EC) No. 2019/1148
SVHC:	Substance of very high concern (reach Candidate List)
PBT:	Substance fulfilling persistent, bioaccumulative and toxic criteria.
PBT/vPvB:	Substance fulfilling persistent, bioaccumulative and toxic plus very persistent and very bioaccumulative criteria.
vPvB:	Substance fulfilling very persistent and very bioaccumulative criteria.

### Further information:

This Safety Data Sheet has been produced based on Regulation (EC) No 1907/2006 and provides information in accordance with applicable regulation of the European Union (EU) only. In that respect, no statement, warranty, or representation of any kind is given as to compliance with any statutory laws or regulations of any jurisdiction or territory other than the European Union.

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe the product from the point of view of safety requirements and is not intended to guarantee any particular properties.