

TSE399-W

# SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

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

### 1.1 Product identifier

Product name: TSE399-W

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Silicone Elastomer

Uses advised against: For industrial use only.

### 1.3 Details of the supplier of the safety data sheet

:  
, ,

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

**Classification according to Regulation (EC) No 1272/2008 as amended.**

#### Health Hazards

Serious eye irritation

Category 2

H319: Causes serious eye irritation.

### 2.2 Label Elements



**Signal Words:** Warning

**Hazard Statement(s):** H319: Causes serious eye irritation.

#### Precautionary Statements

**Prevention:** P264: Wash hands thoroughly after handling.

**Response:** P305: IF IN EYES:  
P351: Rinse cautiously with water for several minutes.  
P338: Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313: If eye irritation persists: Get medical advice/attention.

#### Supplemental label information

Contains: gamma-AminopropyltriethoxysilaneDibutyltin Dilaurate  
May produce an allergic reaction.

#### Unknown toxicity - Health

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Acute toxicity, oral 0 %  
 Acute toxicity, dermal 0 %  
 Acute toxicity, inhalation, vapor 0 %  
 Acute toxicity, inhalation, dust 0 %  
 or mist

**Additional Information:** No data available.

**2.3 Other hazards** No data available.

**SECTION 3: Composition/information on ingredients**

**Chemical nature:** Silicone sealant

**3.2 Mixtures**

**General information:** No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
CYCLOPENT YLSILAZANE-AMINOSILOXANE COPOLYMER , METHOXY TERMINATED	1 - <3%	134759-20-9		No data available.	No data available.	
gamma-Aminopropyltriethoxysilane	0,1 - <1%	919-30-2	213-048-4	01-2119480479-24-0002	No data available.	
Octamethylcyclotetrasiloxane	0,1 - <1%	556-67-2	209-136-7	01-2119529238-36-0001	No data available.	PBT, vPvB
Dibutyltin Dilaurate	0,1 - <0,25%	77-58-7	201-039-8	01-2119496068-27-0001	1	#
Dodecamethyl cyclohexasiloxane	0,1 - <1%	540-97-6	208-762-8	01-2119517435-42-0001	No data available.	vPvB
Decamethyl cyclopentasiloxane	0,1 - <1%	541-02-6	208-764-9	01-2119511367-43-0002	No data available.	vPvB

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# # This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

**Classification**

Chemical name	Classification	Notes
CYCLOPENTYLSILAZANE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	Eye Dam.: 1: H318; Skin Corr.: 2: H315;	
gamma-Aminopropyltriethoxysilane	Skin Sens.: 1: H317; Acute Tox.: 4: H302; Skin Corr.: 1B: H314; Eye Dam.: 1: H318;	No data available.

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Octamethylcyclotetrasiloxane	Flam. Liq.: 3: H226; Repr.: 2: H361f; Aquatic Chronic: 2: H411;	No data available.
Dibutyltin Dilaurate	STOT SE: 1: H370; Skin Corr.: 1C: H314; Skin Sens.: 1: H317; Eye Dam.: 1: H318; Muta.: 2: H341; Repr.: 1B: H360FD; STOT RE: 1: H372; Aquatic Chronic: 1: H410; Aquatic Acute: 1: H400;	No data available. No data available.
Dodecamethylcyclohexasiloxane	No data available.	
Decamethylcyclopentasiloxane	No data available.	

CLP: Regulation No. 1272/2008.

**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

- Inhalation:** Move to fresh air.
- Eye contact:** Rinse the eye with water immediately. If eye irritation persists: Get medical advice/attention.
- Skin Contact:** After contact with skin, remove product mechanically. Wash area with soap and water.
- Ingestion:** If swallowed, do NOT induce vomiting. Give a glass of water. Rinse mouth. Consult a physician for specific advice.

- 4.2 Most important symptoms and effects, both acute and delayed:** Product may hydrolyse upon contact with body fluids in the gastrointestinal tract to produce additional methanol; therefore, consider the signs/symptoms of methanol poisoning and also observe the known latency period of several days!

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

- Hazards:** No data available.
- Treatment:** If swallowed, do NOT induce vomiting. Give a glass of water. If swallowed, rinse mouth with water (only if the person is conscious). Product may hydrolyze upon contact with body fluids in the gastrointestinal tract to produce additional methanol. The potential for toxic effects due to methanol formation (eye damage and blindness, metabolic acidosis, dizziness and drowsiness, fetal toxicity, and liver, kidney, and heart muscle damage) should be recognized.

**SECTION 5: Firefighting measures**

- General Fire Hazards:** Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

**5.1 Extinguishing media**

- Suitable extinguishing media:** All standard extinguishing agents are suitable.

- Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

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- 5.2 Special hazards arising from the substance or mixture:** Reacts with water liberating small amounts of methanol. In case of fire, carbon monoxide and carbon dioxide may be formed. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.
- 5.3 Advice for firefighters  
 Special fire fighting procedures:** Product may charge electrostatically during pouring or filling. Take precautionary measures against static discharges. Keep away from sources of ignition - No smoking.
- Special protective equipment for fire-fighters:** Use standard firefighting procedures and consider the hazards of other involved materials. Self-contained breathing apparatus.

**SECTION 6: Accidental release measures**

- 6.1 Personal precautions, protective equipment and emergency procedures:** Provide adequate ventilation. Use personal protective equipment. Keep container tightly closed and in a well-ventilated place. Caution: Contaminated surfaces may be slippery.
- 6.2 Environmental Precautions:** Prevent runoff from entering drains, sewers, or streams.
- 6.3 Methods and material for containment and cleaning up:** Use mechanical handling equipment. Shovel up and place in a container for salvage or disposal.
- 6.4 Reference to other sections:** Remove sources of ignition.

**SECTION 7: Handling and storage:**

- 7.1 Precautions for safe handling:** Methanol is formed during processing. Wear appropriate personal protective equipment.
- Storage conditions:** Keep away from sources of ignition - No smoking. Store in original container.
- 7.2 Conditions for safe storage, including any incompatibilities:** Keep container tightly closed in a cool, well-ventilated place.
- Storage Stability:** Material is stable under normal conditions.
- 7.3 Specific end use(s):** No data available.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control Parameters  
 Occupational Exposure Limits**

Chemical name	Type	Exposure Limit Values	Source
Silica - Inhalable dust.	TWA	6 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Silica - Respirable dust.	TWA	2,4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
TITANIUM DIOXIDE - Inhalable	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
TITANIUM DIOXIDE - Respirable.	TWA	4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
Dibutyltin Dilaurate - as Sn	TWA	0,1 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	STEL	0,2 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

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**Biological Limit Values**

None.

**DNEL-Values**

Critical component	Type	Route of Exposure		Remarks
Dibutyltin Dilaurate	Workers	Dermal	1 mg/kg bw/day	
		Inhalation	0,07 mg/m <sup>3</sup>	
Consumers		Dermal	0,2 mg/kg bw/day	
		Inhalation	0,01 mg/m <sup>3</sup>	
		Dermal	0,5 mg/kg bw/day	
		Inhalation	0,02 mg/m <sup>3</sup>	
		Ingestion	0,01 mg/kg bw/day	
		Dermal	0,08 mg/kg bw/day	
		Inhalation	0,003 mg/m <sup>3</sup>	
		Ingestion	0,002 mg/kg bw/day	

**PNEC-Values**

Critical component	Environmental compartment		Remarks
Dibutyltin Dilaurate	Water	0,463 µg/l	
	Seawater	0,0463 µg/l	
	Intermittent release	4,63 µg/l	
	freshwater sediment	0,05 mg/kg	Derived from PNEC(freshwater) using the equilibrium partitioning method.
	Saltwater Sediment	0,005 mg/kg	Derived from PNEC(freshwater) using the equilibrium partitioning method.
	soil	0,0407 mg/kg	
	Sewage treatment plant	100 mg/l	
	Oral	0,2 mg/kg	

**8.2 Exposure controls**

**Appropriate Engineering Controls:**

Eye wash facilities and emergency shower must be available when handling this product. Observe good industrial hygiene practices.

**Individual protection measures, such as personal protective equipment**

**General information:** Wear suitable gloves and eye/face protection.

**Eye/face protection:** Safety glasses with side-shields conforming to EN166

**Skin protection**

**Hand Protection:**

Advice: This recommendation is valid only for our Product as delivered. If this product will be mixed with other substances you need to contact a supplier of CE approved protective gloves (e.g. KCL GmbH, D-36124 Eichenzell, Tel. 0049 (0) 6659 87300, Fax. 0049 (0) 6659 87155, email: [vertrieb@kcl.de](mailto:vertrieb@kcl.de)).

Material: 730 Camatril

Glove thickness: 0,4 mm

**Other:** Wear suitable protective clothing.

**Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection mask with Filtertype ABEK

**Hygiene measures:** Avoid contact with eyes, skin, and clothing. Wash hands after handling. When using do not eat or drink.

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**Environmental exposure controls:** No data available.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Appearance**

<b>Physical state:</b>	liquid
<b>Form:</b>	Paste
<b>Color:</b>	White
<b>Odor:</b>	Faint
<b>Odor Threshold:</b>	No data available.
<b>pH:</b>	No data available.
<b>Freezing point:</b>	No data available.
<b>Boiling Point:</b>	No data available.
<b>Flash Point:</b>	ca. 198 °C
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability Limit - Upper (%):</b>	No data available.
<b>Flammability Limit - Lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density (air=1):</b>	No data available.
<b>Density:</b>	ca. 1,04 g/cm <sup>3</sup>
<b>Relative density:</b>	No data available.
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Insoluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water) Log Pow:</b>	No data available.
<b>Autoignition Temperature:</b>	> 450 °C
<b>Decomposition Temperature:</b>	No decomposition if stored and applied as directed.
<b>SADT:</b>	No data available.
<b>Viscosity, dynamic:</b>	No data available.
<b>Viscosity, kinematic:</b>	> 20,5 mm <sup>2</sup> /s (40 °C)
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	No data available.

**9.2 Other information**

**Minimum ignition temperature:** 450 °C

**SECTION 10: Stability and reactivity**

<b>10.1 Reactivity:</b>	Material is stable under normal conditions.
<b>10.2 Chemical Stability:</b>	Material is stable under normal conditions.
<b>10.3 Possibility of hazardous reactions:</b>	Hazardous polymerisation does not occur. Avoid contact with: Moisture.
<b>10.4 Conditions to avoid:</b>	Keep away from heat, sparks and open flame.
<b>10.5 Incompatible Materials:</b>	Moisture. Strong Acids, Strong Bases

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**10.6 Hazardous Decomposition Products:**

Carbon oxides Oxides of silicon. Generates methanol during cure. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

**SECTION 11: Toxicological information**

**General information:** In serious cases absorption of methanol in the body may lead to damage to the eyesight.

**Information on likely routes of exposure**

**Inhalation:** No data available.

**Ingestion:** No data available.

**Skin Contact:** No data available.

**Eye contact:** No data available.

**11.1 Information on toxicological effects**

**Acute toxicity**

**Oral**

**Product:** Not classified for acute toxicity based on available data.

- Specified substance(s)**
- CYCLOPENTYLSILAZA LD 50 (Rat): 4.666 mg/kg
  - NE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED
  - gamma-Aminopropyltriethoxysilane LD 50 (Rat): 1.570 mg/kg
  - Octamethylcyclotetrasiloxane LD 50 (Rat): 4.800 mg/kg
  - Dibutyltin Dilaurate LD 50 (Rat): 2.071 mg/kg
  - Dodecamethylcyclohexasiloxane LD 50 (Rat): 2.000 mg/kg
  - Decamethylcyclopentasiloxane No data available.

**Dermal**

**Product:** Not classified for acute toxicity based on available data.

- Specified substance(s)**
- CYCLOPENTYLSILAZANE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED
  - gamma-Aminopropyltriethoxysilane LD 50 (Rabbit): 4.290 mg/kg
  - Octamethylcyclotetrasiloxane LD 50 (Rat): > 2.400 mg/kg
  - Dibutyltin Dilaurate LD 50 (Rat): > 2.000 mg/kg
  - Dodecamethylcyclohexane LD 50 (Rat): 2.000 mg/kg

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asiloXane  
 Decamethylcyclopenta  
 siloxane LD 50 (Rabbit): > 2.000 mg/kg

**Inhalation**

**Product:** Not classified for acute toxicity based on available data.

**Specified substance(s)**

CYCLOPENTYLSILAZA No data available.  
 NE-AMINOSILOXANE  
 COPOLYMER,  
 METHOXY  
 TERMINATED  
 gamma- LC50 (Rat, 6 h):  
 Aminopropyltriethoxysilan LC50 (Rat, 6 h):  
 e  
 Octamethylcyclotetrasilox LC50 (Rat, 4 h): 36 mg/l  
 ane  
 Dibutyltin Dilaurate No data available.  
 Dodecamethylcyclohexas No data available.  
 iloxane  
 Decamethylcyclopentasil LC50 (Rat, 4 h): 8,67 mg/l  
 oxane

**Repeated dose toxicity**

**Product:** No data available.

**Specified substance(s)**

CYCLOPENTYLSILAZA No data available.  
 NE-AMINOSILOXANE  
 COPOLYMER,  
 METHOXY  
 TERMINATED  
 gamma- NOAEL (Rat, Oral, 90 d): 200 mg/kg  
 Aminopropyltriethoxysilan LOAEL (Rat, Oral, 90 d): 600 mg/kg  
 e  
 Octamethylcyclotetrasilox NOAEL (Rat(male and female), Inhalation - vapor(vapour) ): 150 mg/kg  
 ane NOAEL (Rabbit(male and female), Dermal): 950 mg/kg LOAEL  
 (Rabbit(male and female), Dermal): 950 mg/kg  
 Dibutyltin Dilaurate  
 NOAEL (Rat(male and female), Oral, 28 d): 0,3 - 0,4 mg/l  
 NOAEL (Rat(males), Oral, 28 d): 1,9 - 2,3 mg/l  
 NOAEL (Rat(female), Oral, 28 d): 1,7 - 2,3 mg/l  
 Dodecamethylcyclohexas NOAEL (Rat(male and female), Oral): 1.000 mg/kg  
 iloxane  
 Decamethylcyclopentasil NOAEL (Rat(male and female), Oral, 90 d): 1.000 mg/kg  
 oxane NOAEL (Rat(male and female), Dermal, 28 d): 1.600 mg/kg  
 NOAEC (Rat(male and female), Inhalation - vapor, 2 y): 160 ppm

**Skin Corrosion/Irritation:**

**Product:** No data available.

**Specified substance(s)**

CYCLOPENTYLSILAZA Draize (Rabbit, 4 h): Slightly irritating.  
 ANE-  
 AMINOSILOXANE  
 COPOLYMER,  
 METHOXY  
 TERMINATED  
 gamma- OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit, 4 h):  
 Aminopropyltriethoxysil Corrosive  
 ane



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Octamethylcyclotetrasiloxane	OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rat): No skin irritation
Dibutyltin Dilaurate	(Rabbit): Severe skin irritation.
Dodecamethylcyclohexasiloxane	OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit, 72 h): No skin irritation
Decamethylcyclopentasiloxane	OECD Test Guideline 404 (Rabbit, 72 h): Non irritating

**Serious Eye Damage/Eye Irritation:**

<b>Product:</b>	No data available.
<b>Specified substance(s)</b>	
CYCLOPENTYLSILAZANE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	
gamma-Aminopropyltriethoxysilane	Draize (Rabbit, 24 h): Corrosive Risk of serious damage to eyes.
Octamethylcyclotetrasiloxane	OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit, 72 h): Strongly irritating.
Dibutyltin Dilaurate	OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit): Not irritating
Dodecamethylcyclohexasiloxane	OECD Test Guideline 405 (Rabbit, 21 d): Strongly irritating. Irritating to eyes.
Decamethylcyclopentasiloxane	OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit, 72 h): No eye irritation Not irritating
	OECD Test Guideline 405 (Rabbit, 72 h): Non irritating

**Respiratory or Skin**

**Sensitization:**

<b>Product:</b>	No data available.
<b>Specified substance(s)</b>	
CYCLOPENTYLSILAZANE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	
gamma-Aminopropyltriethoxysilane	(Guinea Pig)positive
Octamethylcyclotetrasiloxane	, OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig)Not sensitizing
Dibutyltin Dilaurate	Maximisation Test, OECD Test Guideline 406 (Guinea Pig): Sensitizer
Dodecamethylcyclohexasiloxane	Maximisation Test, OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig): negative
Decamethylcyclopentasiloxane	LLNA (Local Lymph Node Assay), OECD Guideline 429 (LLNA) (Mouse): Non sensitizing.

**Germ Cell Mutagenicity**

**In vitro**

<b>Product:</b>	No data available.
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**Specified substance(s)**

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CYCLOPENTYLSILAZAN E-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED gamma- Aminopropyltriethoxysilan e Octamethylcyclotetrasilox ane	No data available.     Ames-Test: negative Chinese Hamster Ovary (CHO): negative Chromosomal aberration: negative Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic) Mouse Lymphoma Assay (OECD Guidline 476): negative (not mutagenic)
Dibutyltin Dilaurate	Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic) Mammalian cytogenicity test (OECD 476): negative
Dodecamethylcyclohexas iloxane	Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative
Decamethylcyclopentasil oxane	Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic) Mammalian cytogenicity test (Mouse Lymphoma Assay (OECD Guidline 476)): negative (not mutagenic) Chromosomal aberration (OECD 473): negative (not mutagenic)

**In vivo**

**Product:** No data available.

**Specified substance(s)**

CYCLOPENTYLSILAZAN E-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED gamma- Aminopropyltriethoxysilan e Octamethylcyclotetrasilox ane	No data available.     No data available.  Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female): negative Dominant lethal assay (OECD 478) Oral (Rat, male and female): negative (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Oral (Mouse)positive The health hazard evaluation is based on the toxicological properties of a similar material.
Dibutyltin Dilaurate	OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test) (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Intraperitoneal (Mouse, male and female): negative
Dodecamethylcyclohexas iloxane	(OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female)negative (not mutagenic) Vapor.
Decamethylcyclopentasil oxane	

**Carcinogenicity**

**Product:** No data available.

**Specified substance(s)**

CYCLOPENTYLSILAZAN E-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED gamma- Aminopropyltriethoxysilan e Octamethylcyclotetrasilox ane	No data available.     No data available.  No data available.
Dibutyltin Dilaurate	No data available.

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Dodecamethylcyclohexas  
 iloxane No data available.  
 Decamethylcyclopentasil  
 oxane No data available.

**Reproductive toxicity**

**Product:** No data available.

**Specified substance(s)**

CYCLOPENTYLSILAZAN No data available.  
 E-AMINOSILOXANE  
 COPOLYMER,  
 METHOXY  
 TERMINATED  
 gamma-  
 Aminopropyltriethoxysilan  
 e No data available.  
 Octamethylcyclotetrasilox  
 ane No data available.  
 Dibutyltin Dilaurate No data available.  
 Dodecamethylcyclohexas  
 iloxane No data available.  
 Decamethylcyclopentasil  
 oxane No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

**Specified substance(s)**

CYCLOPENTYLSILAZAN No data available.  
 E-AMINOSILOXANE  
 COPOLYMER,  
 METHOXY  
 TERMINATED  
 gamma-  
 Aminopropyltriethoxysilan  
 e No data available.  
 Octamethylcyclotetrasilox  
 ane No data available.  
 Dibutyltin Dilaurate No data available.  
 Dodecamethylcyclohexas  
 iloxane No data available.  
 Decamethylcyclopentasil  
 oxane No data available.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.

**Specified substance(s)**

CYCLOPENTYLSILAZAN No data available.  
 E-AMINOSILOXANE  
 COPOLYMER,  
 METHOXY  
 TERMINATED  
 gamma-  
 Aminopropyltriethoxysilan  
 e No data available.  
 Octamethylcyclotetrasilox  
 ane No data available.  
 Dibutyltin Dilaurate No data available.  
 Dodecamethylcyclohexas  
 iloxane No data available.

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Decamethylcyclopentasiloxane No data available.

**Aspiration Hazard**

**Product:** No data available.

**Specified substance(s)**

CYCLOPENTYLSILAZAN No data available.

E-AMINOSILOXANE

COPOLYMER,

METHOXY

TERMINATED

gamma- No data available.

Aminopropyltriethoxysilane

Octamethylcyclotetrasiloxane No data available.

Dibutyltin Dilaurate No data available.

Dodecamethylcyclohexasiloxane No data available.

Decamethylcyclopentasiloxane No data available.

**Other effects:** No data available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Acute toxicity**

**Fish**

**Product:** No data available.

**Specified substance(s)**

CYCLOPENTYLSILAZAN No data available.

NE-AMINOSILOXANE

COPOLYMER,

METHOXY

TERMINATED

gamma- LC50 (Brachydanio rerio, 96 h): > 934 mg/l (OECD Test Guideline 203)

Aminopropyltriethoxysilane

Octamethylcyclotetrasiloxane No data available.

Dibutyltin Dilaurate No data available.

Dodecamethylcyclohexasiloxane No data available.

Decamethylcyclopentasiloxane LC50 (Oncorhynchus mykiss, 96 h): > 0,0016 mg/l (OECD-Guideline 204)

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s)**

CYCLOPENTYLSILAZAN No data available.

NE-AMINOSILOXANE

COPOLYMER,

METHOXY

TERMINATED

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gamma-Aminopropyltriethoxysilane	EC50 (Daphnia magna, 48 h): 331 mg/l (OECD-Guideline 202)
Octamethylcyclotetrasiloxane	No data available.
Dibutyltin Dilaurate	EC50 (Daphnia magna, 48 h): < 0,463 mg/l (OECD Test Guideline 202) Fresh water
Dodecamethylcyclohexasiloxane	No data available.
Decamethylcyclopentasiloxane	EC50 (Daphnia magna, 48 h): > 0,0029 mg/l (OECD Test Guideline 202)

**Chronic Toxicity**

**Fish**

**Product:** No data available.

**Specified substance(s)**

CYCLOPENTYLSILAZANE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	No data available.
gamma-Aminopropyltriethoxysilane	No data available.
Octamethylcyclotetrasiloxane	No data available.
Dibutyltin Dilaurate	No data available.
Dodecamethylcyclohexasiloxane	NOEC (Pimephales promelas, 49 d): 0,0044 mg/l
Decamethylcyclopentasiloxane	NOEC (Oncorhynchus mykiss, 90 d): >= 0,0014 mg/l (OECD-Guideline 210) LOEC (Oncorhynchus mykiss, 90 d): > 0,0014 mg/l (OECD-Guideline 210)

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s)**

CYCLOPENTYLSILAZANE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	No data available.
gamma-Aminopropyltriethoxysilane	No data available.
Octamethylcyclotetrasiloxane	No data available.
Dibutyltin Dilaurate	No data available.
Dodecamethylcyclohexasiloxane	NOEC (Daphnia magna, 21 d): 0,0046 mg/l EC50 (Sediment Invertebrate, 28 d): > 420 mg/l LOEC (Sediment Invertebrate, 28 d): >= 420 mg/l
Decamethylcyclopentasiloxane	NOEC (Daphnia magna, 21 d): >= 0,0015 mg/l (OECD-Guideline 211) LOEC (Daphnia magna, 21 d): > 0,0015 mg/l

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Specified substance(s)**

CYCLOPENTYLSILAZANE-AMINOSILOXANE COPOLYMER,	No data available.
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METHOXY TERMINATED gamma- Aminopropyltriethoxysilane	EC50 (Desmodesmus subspicatus (green algae), 72 h): > 1.000 mg/l NOEC (Desmodesmus subspicatus (green algae), 72 h): 1,3 mg/l
Octamethylcyclotetrasiloxane	No data available.
Dibutyltin Dilaurate	EC50 (Desmodesmus subspicatus (green algae), 72 h): > 1 mg/l (OECD Test Guideline 201) Fresh water
Dodecamethylcyclohexasiloxane	EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 0,002 mg/l (OECD Test Guideline 201) NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): >= 0,002 mg/l (OECD Test Guideline 201)
Decamethylcyclopentasiloxane	EC50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 0,0012 mg/l (OECD Test Guideline 201) NOEC : >= 0,0012 mg/l EC10 : > 0,0012 mg/l

**12.2 Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Specified substance(s)**

CYCLOPENTYLSILAZAN E-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED gamma- Aminopropyltriethoxysilane	No data available.       (28 d): 67 % Not readily degradable. hydrolyses
Octamethylcyclotetrasiloxane	(29 d, 310 Ready Biodegradability - CO <sub>2</sub> in Sealed Vessels (Headspace Test)): 3,7 % Persistent Not readily biodegradable.
Dibutyltin Dilaurate	Biological degradability (39 d): 23 % The product is not readily biodegradable.
Dodecamethylcyclohexasiloxane	No data available.
Decamethylcyclopentasiloxane	activated sludge (adaptation not specified) (28 d, OECD Test Guideline 310): 0,14 % The product is not readily biodegradable.

**BOD/COD Ratio**

**Product** No data available.

**Specified substance(s)**

CYCLOPENTYLSILAZAN E-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED gamma- Aminopropyltriethoxysilane	No data available.       No data available.
Octamethylcyclotetrasiloxane	No data available.
Dibutyltin Dilaurate	No data available.
Dodecamethylcyclohexasiloxane	No data available.
Decamethylcyclopentasiloxane	No data available.

**12.3 Bioaccumulative potential**

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**Product:** No data available.

**Specified substance(s)**

CYCLOPENTYLSILAZAN E-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	No data available.
gamma- Aminopropyltriethoxysilan e	Cyprinus carpio, Bioconcentration Factor (BCF): 3,4 (Measured) The product is not bioaccumulating.
Octamethylcyclotetrasilox ane	Fathead Minnow, Bioconcentration Factor (BCF): 12,40
Dibutyltin Dilaurate	The product is not bioaccumulating.
Dodecamethylcyclohexas iloxane	No data available.
Decamethylcyclopentasil oxane	Fathead Minnow, Bioconcentration Factor (BCF): 7.060 (OECD Test Guideline 305)

**12.4 Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

CYCLOPENTYLSILAZANE -AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	No data available.
gamma- Aminopropyltriethoxysilane	No data available.
Octamethylcyclotetrasiloxa ne	No data available.
Dibutyltin Dilaurate	No data available.
Dodecamethylcyclohexasilo xane	No data available.
Decamethylcyclopentasilox ane	No data available.

**12.5 Results of PBT and vPvB assessment:** Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB)

CYCLOPENTYLSILAZANE- AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	No data available.
gamma- Aminopropyltriethoxysilane	Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria, Not fulfilling vPvB (very persistent/very bioaccumulative) criteria

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Octamethylcyclotetrasiloxane	Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB)	Octamethylcyclotetrasiloxane (D4) meets the current EU REACH Annex XIII criteria for PBT and vPvB and has been added to the candidate list for Substances of very high concern (SVHC)., <i>However our understanding of the available science is that D4 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by naturally occurring reactions in the atmosphere. Any D4 in air that does not degrade by these reactions is not expected to deposit from the air to water, to land, or to living organisms.</i>
Dibutyltin Dilaurate Dodecamethylcyclohexasiloxane	No data available. vPvB: very persistent and very bioaccumulative substance.	Dodecamethylcyclohexasiloxane (D6) meets the current EU REACH Annex XIII criteria for vPvB and has been added to the candidate list for Substances of very high concern (SVHC)., <i>However our understanding of the available science is that D6 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D6 is not biomagnifying in aquatic and terrestrial food webs. D6 in air will degrade by naturally occurring reactions in the atmosphere. Any D6 in air that does not degrade by these reactions is not expected to deposit from the air to water, to land, or to living organisms</i>
Decamethylcyclopentasiloxane	vPvB: very persistent and very bioaccumulative substance.	Decamethylcyclopentasiloxane (D5) meets the current EU REACH Annex XIII criteria for vPvB and has been added to the candidate list for Substances of very high concern (SVHC)., <i>However our understanding of the available science is that D5 does not behave similarly to known PBT/vPvB substances. The silicones industries interpretation of the available data is that the weight of scientific evidence from field studies shows that D5 is not biomagnifying in aquatic and terrestrial food webs. D5 in air will degrade by naturally occurring reactions in the atmosphere. Any D5 in air that does not degrade by these reactions is not expected to deposit from the air to water, to land, or to living organisms.</i>

**12.6 Other adverse effects:** No data available.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**General information:** The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the ground. See Section 8 for information on appropriate personal protective equipment.



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**Disposal methods:** Can be incinerated when in compliance with local regulations.

**SECTION 14: Transport information**

**ADR**

Not regulated.

**ADN**

Not regulated.

**RID**

Not regulated.

**IMDG**

Not regulated.

**IATA**

Not regulated.

**14.6 Special precautions for user:** This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods. Protect from moisture. Keep away from food, foodstuff, acids and bases. keep away from odour sensitive materials

**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:**

**EU Regulations**

**Regulation (EC) No. 2037/2000 Substances that deplete the ozone layer:** none

**Regulation (EC) No. 850/2004 on persistent organic pollutants:** none

**Regulation (EC) No. 649/2012 Import and export of dangerous chemicals:**

Chemical name	CAS-No.	Concentration
Dibutyltin Dilaurate	77-58-7	0,1 - 1,0%

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:** none

**EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC):**

Chemical name	CAS-No.	Concentration
Octamethylcyclotetrasiloxane	556-67-2	0 - <=0,1900%
Dodecamethylcyclohexasiloxane	540-97-6	0 - <=0,1400%

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Decamethylcyclopentasiloxane	541-02-6	0 - <=0,1000%
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**Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:**

Chemical name	CAS-No.	Concentration
Dibutyltin Dilaurate	77-58-7	0,1 - 1,0%

**Directive 2004/37/EC on the protection of workers from the risks related to exposure to carcinogens and mutagens at work.:** none

**Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:** none

**Directive 96/82/EC (Seveso III): on the control of major accident hazards involving dangerous substances:** none

**EU. Regulation No. 166/2006 PRTR (Pollutant Release and Transfer Registry), Annex II: Pollutants:**

Chemical name	CAS-No.	Concentration
Dibutyltin Dilaurate	77-58-7	0,1 - 1,0%

**Directive 98/24/EC on the protection of workers from the risks related to chemical agents at work:**

Chemical name	CAS-No.	Concentration
gamma-Aminopropyltriethoxysilane	919-30-2	0,1 - 1,0%
Octamethylcyclotetrasiloxane	556-67-2	0,1 - 1,0%

**15.2 Chemical safety assessment:**

No Chemical Safety Assessment has been carried out.

**Inventory Status**

EU EINECS List:	y (positive listing)	Remarks: None.
Japan (ENCS) List:	y (positive listing)	Remarks: None.
China Inventory of Existing Chemical Substances:	y (positive listing)	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	y (positive listing)	Remarks: None.
Canada DSL Inventory List:	q (quantity restricted)	Remarks: None.
Canada NDSL Inventory:	n (Negative listing)	Remarks: None.
Philippines PICCS:	y (positive listing)	Remarks: None.
US TSCA Inventory:	y (positive listing)	Remarks: On TSCA Inventory
Taiwan. Taiwan inventory (CSNN):	y (positive listing)	Remarks: None.
Australia AICS:	n (Negative listing)	Remarks: None.
New Zealand Inventory of Chemicals:	n (Negative listing)	Remarks: None.

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REACH: If purchased from Momentive Performance Materials GmbH in Leverkusen, Germany, all substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent monomers and other reactants.

Remarks: None.

**SECTION 16: Other information**

**Revision Information:** Not relevant.

**Key literature references and sources for data:** No data available.

**Wording of the H-statements in section 2 and 3**

H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H341	Suspected of causing genetic defects.
H360FD	May damage fertility. May damage the unborn child.
H361f	Suspected of damaging fertility.
H370	Causes damage to organs.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

**Training information:** No data available.

**Classification according to Regulation (EC) No 1272/2008 as amended.**

Eye Dam. 2, H319

**Issue Date:** 12.08.2018

**Disclaimer:**