

SAFETY DATA SHEET

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by
Regulation(EU) No. 2020/878

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

1.1 Product identifier

Product name: TSE392-C

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

Identified uses: Professional Consumer

Uses advised against: Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Importer/Distributor Information : Momentive Performance Materials GmbH
Chempark Leverkusen Gebaeude V7
DE - 51368 Leverkusen
Germany

Contact person : commercial.services@momentive.com

Telephone : General information
+390510924300 (Customer Service Centre)

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Emergency telephone number : Europe, Israel & All other: +44 (0) 1235239670; Middle East:+44
(0) 1235239671

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.

The product is not classified for chronic aquatic toxicity, for further details see section 16

2.2 Label Elements



Signal Words: Warning

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

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Precautionary Statements

Prevention: P264: Wash face, hands and any exposed skin thoroughly after handling.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.

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

Supplemental label information

EUH208: Contains (gamma-Aminopropyltriethoxysilane, Dibutyltin Dilaurate). May produce an allergic reaction.

Unknown toxicity - Health

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

Additional Information: No data available.

2.3 Other hazards

PBT/vPvB data

Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB)

Endocrine disrupting properties-Toxicity

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Endocrine disrupting properties-Ecotoxicity

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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	1 - <3%	134759-20-9	638-885-6	Polymer	Not applicable	

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, METHOXY TERMINATED						
gamma-Aminopropyltriethoxysilane	0,1 - <1%	919-30-2	213-048-4	01-2119480479-24-XXXX	Not applicable	
Dibutyltin Dilaurate	0,1 - <0,3%	77-58-7	201-039-8	01-2119496068-27-XXXX	Aquatic Toxicity (Acute): 1	#
Dodecamethyl cyclohexasiloxane	0,1 - <1%	540-97-6	208-762-8	01-2119517435-42-XXXX	Not applicable	vPvB
Decamethylcyclopentasiloxane	0,1 - <1%	541-02-6	208-764-9	01-2119511367-43-XXXX	Not applicable	vPvB
Octamethylcyclo tetrasiloxane	0,01 - <0,1%	556-67-2	209-136-7	01-2119529238-36-XXXX	Aquatic Toxicity (Chronic): 10	PBT, 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
CYCLOPENTYLSILAZAN E-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	Eye Dam.: 1: H318; Skin Corr.: 2: H315;	
gamma-Aminopropyltriethoxysilane	Acute Tox.: 4: H302; Skin Corr.: 1B: H314; Eye Dam.: 1: H318; Skin Sens.: 1: H317;	No data available.
Dibutyltin Dilaurate	Eye Dam.: 1: H318; Skin Sens.: 1: H317; Muta.: 2: H341; Repr.: 1B: H360FD; STOT SE: 1: H370; Skin Corr.: 1C: H314; Aquatic Chronic: 1: H410; Aquatic Acute: 1: H400; No data available.	No data available.
Dodecamethylcyclohexasiloxane	No data available.	
Decamethylcyclopentasiloxane	No data available.	
Octamethylcyclo tetrasiloxane	Flam. Liq.: 3: H226; Repr.: 2: H361f; Aquatic Chronic: 1: H410;	

CLP: Regulation No. 1272/2008.

SECTION 4: First aid measures

4.1 Description of first aid measures

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Inhalation:	Move into fresh air and keep at rest. Get medical attention if symptoms occur.
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.
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.

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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: Store in original tightly closed container. Keep in a cool, ventilated location far from heat source and flame Keep away from food, drink and animal feeding stuffs.

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
Dibutyltin Dilaurate - as Sn	TWA	0,1 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs), as amended (12.2011)
	STEL	0,2 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs), as amended (01.2020)

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 ³	
		Dermal	0,2 mg/kg bw/day	
	Consumers	Inhalation	0,01 mg/m ³	
		Dermal	0,5 mg/kg bw/day	
		Inhalation	0,02 mg/m ³	
		Ingestion	0,01 mg/kg bw/day	
		Dermal	0,08 mg/kg bw/day	
		Inhalation	0,003 mg/m ³	
		Ingestion	0,002 mg/kg bw/day	

PNEC-Values

Critical component	Environmental compartment		Remarks
Dibutyltin Dilaurate	Water	0,463 µg/l	

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	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: Use only in well-ventilated areas. Wear suitable gloves and eye/face protection.

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

Skin protection

Hand Protection: Advice: There is no risk to health due to contact with the chemical. Use hand protection to prevent mechanically injuries.

Other: Wear suitable protective clothing and eye/face protection. 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.

Environmental exposure controls: No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: solid
Form: Paste
Color: Colorless
Odor: Faint
Odor Threshold: No data available.
pH: Not applicable
Melting Point: No data available.
Boiling Point: Not applicable
Flash Point: 144 °C
Evaporation Rate: No data available.
Flammability (solid, gas): No data available.
Flammability Limit - Upper (%): No data available.
Flammability Limit - Lower (%): No data available.
Vapor pressure: No data available.

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Relative vapor density:	No data available.
Density:	No data available.
Relative density:	No data available.
Solubility(ies)	
Solubility in Water:	Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water) Log Pow:	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No decomposition if stored and applied as directed.
SADT:	No data available.
Viscosity, dynamic:	No data available.
Viscosity, kinematic:	> 20,5 mm ² /s (40 °C)
Explosive properties:	No data available.
Oxidizing properties:	No data available.

9.2 Other information
 No data available.

SECTION 10: Stability and reactivity

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

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

Specified substance(s)

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

Dermal

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

Specified substance(s)

CYCLOPENTYLSILAZANE- AMINOSILOXANE COPOLYMER, METHOXY TERMINATED gamma- Aminopropyltriethoxysilane	No data available.
Dibutyltin Dilaurate	LD 50 (Rat): > 2.000 mg/kg
Dodecamethylcyclohexasiloxane	LD 50 (Rat): 2.000 mg/kg
Decamethylcyclopentasiloxane	LD 50 (Rabbit): > 2.000 mg/kg
Octamethylcyclotetrasiloxane	LD 50 (Rat): > 2.375 mg/kg

Inhalation

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

Specified substance(s)

CYCLOPENTYLSILAZANE- AMINOSILOXANE COPOLYMER, METHOXY TERMINATED gamma- Aminopropyltriethoxysilane	No data available.
Dibutyltin Dilaurate	No data available.
Dodecamethylcyclohexasiloxane	No data available.
Decamethylcyclopentasiloxane	LC50 (Rat, 4 h): 8,67 mg/l
Octamethylcyclotetrasiloxane	LC50 (Rat, 4 h): 36 mg/l

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Repeated dose toxicity

Product:	No data available.
Specified substance(s)	
CYCLOPENTYLSILAZA NE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	No data available.
gamma- Aminopropyltriethoxysilane	NOAEL (Rat): 200 mg/kg/d (Rat(males)): 147 mg/m ³
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 NOAEL (Rat(male and female), Oral): 1.000 mg/kg
Dodecamethylcyclohexasiloxane	NOAEL (Rat(male and female), Oral, 90 d): 1.000 mg/kg NOAEL (Rat(male and female), Dermal, 28 d): 1.600 mg/kg NOAEC (Rat(male and female), Inhalation - vapor, 2 y): 160 ppm
Decamethylcyclopentasiloxane	No data available.
Octamethylcyclotetrasiloxane	No data available.

Skin Corrosion/Irritation:

Product:	No data available.
Specified substance(s)	
CYCLOPENTYLSILAZANE- AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	Draize (Rabbit, 4 h): Slightly irritating.
gamma- Aminopropyltriethoxysilane	No data available.
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
Octamethylcyclotetrasiloxane	OECD Test Guideline 404 (Rabbit): Non irritating

Serious Eye Damage/Eye Irritation:

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

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Decamethylcyclopentasiloxane	OECD Test Guideline 405 (Rabbit, 72 h): Non irritating
Octamethylcyclotetrasiloxane	OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit): Non irritating

Respiratory or Skin Sensitization:

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZANE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	No data available.
gamma-Aminopropyltriethoxysilane	Bühler-Patch-Test skin sensitisation on guinea pigs, OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig): 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.
Octamethylcyclotetrasiloxane	Maximisation Test, OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig): Not sensitizing

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZANE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	No data available.
gamma-Aminopropyltriethoxysilane	No data available.
Dibutyltin Dilaurate	Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic) Mammalian cytogenicity test (OECD 476): negative
Dodecamethylcyclohexasiloxane	No data available.
Decamethylcyclopentasiloxane	Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic) Mammalian cytogenicity test (Mouse Lymphoma Assay (OECD Guideline 476)): negative (not mutagenic) Chromosomal aberration (OECD 473): negative (not mutagenic)
Octamethylcyclotetrasiloxane	Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic) Mouse Lymphoma Assay (OECD Guideline 476): negative (not mutagenic)

In vivo

Product: No data available.

Specified substance(s)

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CYCLOPENTYLSILAZAN E-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	No data available.
gamma- Aminopropyltriethoxysilan e Dibutyltin Dilaurate	No data available. (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Oral (Mouse)positive The health hazard evaluation is based on the toxicological properties of a similar material.
Dodecamethylcyclohexas iloxane	OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test) (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Intraperitoneal (Mouse, male and female): negative
Decamethylcyclopentasil oxane	(OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female)negative (not mutagenic) Vapor.
Octamethylcyclotetrasilox ane	Chromosomal aberration (OECD 475) Inhalation (Rat, male and female): negative Dominant lethal assay (OECD 478) Oral (Rat, male and female): negative

Carcinogenicity

Product: No data available.

Specified substance(s)

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

Reproductive toxicity

Product: No data available.

Specified substance(s)

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

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

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Specified substance(s)

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

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

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

Aspiration Hazard

Product: No data available.

Specified substance(s)

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

11.2 Information on other hazards

Endocrine disrupting properties

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Product: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.;

Components:

CYCLOPENTYLSILA NE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	No data available.
gamma- Aminopropyltriethoxysilane	No data available.
Dibutyltin Dilaurate	No data available.
Dodecamethylcyclohexasiloxane	No data available.
Decamethylcyclopentasiloxane	No data available.
Octamethylcyclotetrasiloxane	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)

CYCLOPENTYLSILA NE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	No data available.
gamma- Aminopropyltriethoxysilane	LC 50 (96 h): > 110 mg/l (OECD-Guideline 203 (Fish, Acute Toxicity Test))
Dibutyltin Dilaurate	No data available.
Dodecamethylcyclohexasiloxane	No data available.
Decamethylcyclopentasiloxane	LC50 (Oncorhynchus mykiss, 96 h): > 0,0016 mg/l (OECD-Guideline 204)
Octamethylcyclotetrasiloxane	No toxicity at the limit of solubility ; LC50 (Oncorhynchus mykiss, 96 h): > 0,022 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILA NE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	No data available.
gamma- Aminopropyltriethoxysilane	EC50 (Daphnia, 48 h): > 100 mg/l (OECD Test Guideline 202)

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Dibutyltin Dilaurate	Fresh water ; EC50 (Daphnia magna, 48 h): < 0,463 mg/l (OECD Test Guideline 202)
Dodecamethylcyclohexasiloxane	No data available.
Decamethylcyclopentasiloxane	EC50 (Daphnia magna, 48 h): > 0,0029 mg/l (OECD Test Guideline 202)
Octamethylcyclotetrasiloxane	No toxicity at the limit of solubility ; EC50 (Daphnia magna, 48 h): > 0,015 mg/l

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZA NE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED

gamma-

Aminopropyltriethoxysilane

e

Dibutyltin Dilaurate

Dodecamethylcyclohexasiloxane

Decamethylcyclopentasiloxane

Octamethylcyclotetrasiloxane

No data available.
 No data available.
 No data available.
 No toxicity at the limit of solubility ; NOEC (Oncorhynchus mykiss, 91 d): 0,014 mg/l
 NOEC (Oncorhynchus mykiss, 90 d): >= 0,0014 mg/l (OECD-Guideline 210)
 LOEC (Oncorhynchus mykiss, 90 d): > 0,0014 mg/l (OECD-Guideline 210)
 No toxicity at the limit of solubility ; NOEC (Oncorhynchus mykiss, 93 d): >= 0,0044 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZA NE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED

gamma-

Aminopropyltriethoxysilane

e

Dibutyltin Dilaurate

Dodecamethylcyclohexasiloxane

No data available.
 No toxicity at the limit of solubility ; 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

Octamethylcyclotetrasiloxane

No toxicity at the limit of solubility ; NOEC (Daphnia magna, 21 d): > 0,015 mg/l

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZA NE-AMINOSILOXANE COPOLYMER,

METHOXY TERMINATED

gamma-

Aminopropyltriethoxysilane

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METHOXY TERMINATED gamma- Aminopropyltriethoxysilane	EC50 (72 h): > 3,6 mg/l (OECD Test Guideline 201)
Dibutyltin Dilaurate	Fresh water ; EC50 (Desmodesmus subspicatus (green algae), 72 h): > 1 mg/l (OECD Test Guideline 201)
Dodecamethylcyclohexasiloxane	No effects at the limit of solubility. ; EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 0,002 mg/l (OECD Test Guideline 201) No effects at the limit of solubility. ; 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
Octamethylcyclotetrasiloxane	No toxicity at the limit of solubility ; ErC50 (Selenastrum capricornutum, 96 h): > 0,022 mg/l

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZAN E-AMINOSILOXANE

COPOLYMER,

METHOXY

TERMINATED

gamma-
Aminopropyltriethoxysilane

Dibutyltin Dilaurate

Biological degradability (39 d): 23 % The product is not readily biodegradable.

Dodecamethylcyclohexasiloxane

Decamethylcyclopentasiloxane

activated sludge (adaptation not specified) (28 d, OECD Test Guideline 310): 0,14 % The product is not readily biodegradable.

Octamethylcyclotetrasiloxane

(29 d, 310 Ready Biodegradability - CO₂ in Sealed Vessels (Headspace Test)): 3,7 % Persistent Not readily biodegradable.

BOD/COD Ratio

Product No data available.

Specified substance(s)

CYCLOPENTYLSILAZAN E-AMINOSILOXANE

COPOLYMER,

METHOXY

TERMINATED

gamma-
Aminopropyltriethoxysilane

Dibutyltin Dilaurate

No data available.

Dodecamethylcyclohexasiloxane

No data available.

Decamethylcyclopentasiloxane

No data available.

Octamethylcyclotetrasiloxane

No data available.

Octamethylcyclotetrasiloxane

No data available.

Octamethylcyclotetrasiloxane

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	No data available.
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)
Octamethylcyclotetrasilox ane	Bioconcentration Factor (BCF): 12.400

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.
Dibutyltin Dilaurate	No data available.
Dodecamethylcyclohexasilox ane	No data available.
Decamethylcyclopentasilox ane	No data available.
Octamethylcyclotetrasiloxa ne	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
No data available.

Dibutyltin Dilaurate
No data available.

Dodecamethylcyclohexasiloxane
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)., *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*

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Decamethylcyclotetrasiloxane	vPvB: very persistent and very bioaccumulative substance.	Decamethylcyclotetrasiloxane (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>
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>

12.6 Endocrine disrupting properties:

Product:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Components:	
CYCLOPENTYLSILA ZANE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	No data available.
gamma-Aminopropyltriethoxysilane	No data available.
Dibutyltin Dilaurate	No data available.
Dodecamethylcyclohexasiloxane	No data available.
Decamethylcyclotetrasiloxane	No data available.
Octamethylcyclotetrasiloxane	No data available.

12.7 Other adverse effects:

Other hazards

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Product: No data available.

Additional Information: Ecotoxicological data for this product is not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: See Section 8 for information on appropriate personal protective equipment. Do not discharge into drains, water courses or onto the ground.

Disposal methods: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

The hazard and precautionary statements displayed on the label also apply to any residues left in the container. The generation of waste should be avoided or minimized wherever possible.

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 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled

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Substances: none

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances:
 none

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: 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
Dodecamethylcyclohexasiloxane	540-97-6	0 - <=0,2%
Decamethylcyclopentasiloxane	541-02-6	0 - <=0,2%

Regulation (EC) No. 1907/2006 Annex XVII Substances subject to restriction on marketing and use:

The packaging shall be visibly, legibly and indelibly marked as follows:
 Restricted to professional users.

Chemical name	CAS-No.	Concentration
gamma-Aminopropyltriethoxysilane	919-30-2	0,1 - 1,0%
Dibutyltin Dilaurate	77-58-7	0,1 - 1,0%
Decamethylcyclopentasiloxane	541-02-6	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.:

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

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breast feeding.:

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

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: None present or none present in regulated quantities. None present or none present in regulated quantities.

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%
Dibutyltin Dilaurate	77-58-7	0,1 - 1,0%

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assessment:

Inventory Status

Canada DSL Inventory List:	Q (quantity restricted)	Remarks: Please contact your supplier for further information on the inventory status of this material.
Japan (ENCS) List:	On or in compliance with the inventory	Remarks: None.
Canada NDSL Inventory:	Not in compliance with the inventory.	Remarks: None.
New Zealand Inventory of Chemicals:	Not in compliance with the inventory.	Remarks: None.
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.
Australia Industrial Chem. Act (AIC):	Not in compliance with the inventory.	Remarks: None.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory	Remarks: None.
Philippines PICCS:	On or in compliance with the inventory	Remarks: None.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	Remarks: None.
US TSCA Inventory:	On or in compliance with the inventory	Remarks: None.

SECTION 16: Other information

Revision Information: Not relevant.

Key literature references and sources for data: The partition coefficient of D4 between PDMS and water has been determined as $\log K_{PDMS-water} = 7.09$. It follows that PDMS containing up to 3%w/w D4 will generate a thermodynamic limit concentration of 2.4 µg D4/L in the water phase. The critical 21d-NOEC for daphnia of 7.9 µg D4/L will not be reached. The product is therefore not classified for chronic aquatic toxicity

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.

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H360FD	May damage fertility. May damage the unborn child.
H361f	Suspected of damaging fertility.
H370	Causes damage to organs.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Training information: No data available.

Issue Date: 15.09.2022

Disclaimer:

Notice to reader

Unless otherwise specified in section 1.2, Momentive Products are intended for industrial application only.

They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

Further Information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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