

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: TSE399-B

UFI: EE32-U0S3-900W-VXXT

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

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

Skin irritation	Category 2	H315: Causes skin irritation.
Serious eye irritation	Category 2	H319: Causes serious eye irritation.
Skin sensitizer	Category 1	H317: May cause an allergic skin reaction.

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

2.2 Label Elements

Contains: gamma-Aminopropyltriethoxysilane

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Signal Words: Warning

Hazard Statement(s): H315: Causes skin irritation.
H319: Causes serious eye irritation.
H317: May cause an allergic skin reaction.

Precautionary Statements

Prevention: P261: Avoid breathing dust/fume/gas/mist/vapors/spray.
P264: Wash face, hands and any exposed skin thoroughly after handling.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response: P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
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.

Disposal: P501: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

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

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3.2 Mixtures
General information: No data available.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Silica	10 - <20%	7631-86-9	231-545-4	01-2119379499-16-0102	Not applicable	#
CYCLOPENTYLSILAZANE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	1 - <3%	134759-20-9	638-885-6	Polymer	Not applicable	
gamma-Aminopropyltriethoxysilane	1 - <3%	919-30-2	213-048-4	01-2119480479-24-XXXX	Not applicable	
Carbon Black	0,1 - <1%	1333-86-4	215-609-9	01-2119384822-32-XXXX	Not applicable	#
Octamethylcyclotetrasiloxane	0,01 - <0,25%	556-67-2	209-136-7	01-2119529238-36-XXXX	Aquatic Toxicity (Chronic): 10	PBT, vPvB
Dibutyltin Dilaurate	0,1 - <0,25%	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

* 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
Silica	No data available.	
CYCLOPENTYLSILAZAN	Eye Dam.: 1: H318; Skin Corr.: 2: H315;	

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E-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED		
gamma-Aminopropyltriethoxysilane	Acute Tox.: 4: H302; Skin Corr.: 1B: H314; Eye Dam.: 1: H318; Skin Sens.: 1: H317;	No data available.
Carbon Black	No data available.	
Octamethylcyclotetrasiloxane	Flam. Liq.: 3: H226; Repr.: 2: H361f; Aquatic Chronic: 1: H410;	
Dibutyltin Dilaurate	Skin Corr.: 1C: H314; Skin Sens.: 1: H317; Muta.: 2: H341; Repr.: 1B: H360FD; STOT SE: 1: H370; Eye Dam.: 1: H318; 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 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!
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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.
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5.1 Extinguishing media

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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.

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 - Respirable dust.	TWA	4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (01 2020)
Silica - Inhalable dust.	TWA	10 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (01 2020)
	TWA	6 mg/m3	UK. EH40 Workplace Exposure Limits (WELs),

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			as amended (01 2020)
Silica - Respirable dust.	TWA	2,4 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (01 2020)
Carbon Black	STEL	7 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
	TWA	3,5 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
	STEL	7 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (01 2020)
	TWA	3,5 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (2007)
Dibutyltin Dilaurate - as Sn	TWA	0,1 mg/m3	UK. EH40 Workplace Exposure Limits (WELs), as amended (12 2011)
	STEL	0,2 mg/m3	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/m3	
		Dermal	0,2 mg/kg bw/day	
		Inhalation	0,01 mg/m3	
	Consumers	Dermal	0,5 mg/kg bw/day	
		Inhalation	0,02 mg/m3	
		Ingestion	0,01 mg/kg bw/day	
		Dermal	0,08 mg/kg bw/day	
		Inhalation	0,003 mg/m3	
		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:

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

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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). Material: 730 Camatril Glove thickness: 0,4 mm Guideline: EN 374
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:	liquid
Form:	Paste
Color:	Black
Odor:	Faint
Odor Threshold:	No data available.
pH:	No data available.
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	198 °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.
Relative vapor density:	No data available.
Density:	1,04 g/cm ³
Relative density:	1,04
Solubility(ies)	
Solubility in Water:	Insoluble
Solubility (other):	Insoluble
Partition coefficient (n-octanol/water) Log Pow:	No data available.

Autoignition Temperature:	> 450 °C
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)

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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

Product: ATEmix: 48.109,3 mg/kg
Specified substance(s)
Silica LD 50 (Rat): > 15.000 mg/kg

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

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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)

Silica	No data available.
CYCLOPENTYLSILAZANE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	No data available.
gamma-Aminopropyltriethoxysilane	No data available.
Carbon Black	No data available.
Octamethylcyclotetrasiloxane	LD 50 (Rat): > 2.375 mg/kg
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

Inhalation

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

Specified substance(s)

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

Repeated dose toxicity

Product: No data available.

Specified substance(s)

Silica	No data available.
CYCLOPENTYLSILAZANE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	No data available.
gamma-Aminopropyltriethoxysilane	NOAEL (Rat): 200 mg/kg/d (Rat(males)): 147 mg/m³

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e	
Carbon Black	No data available.
Octamethylcyclotetrasiloxane	No data available.
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
Dodecamethylcyclohexasiloxane	NOAEL (Rat(male and female), Oral): 1.000 mg/kg
Decamethylcyclopentasiloxane	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

Skin Corrosion/Irritation:

Product: No data available.

Specified substance(s)

Silica	(Rabbit): No skin irritation
CYCLOPENTYLSILAZANE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED gamma-Aminopropyltriethoxysilane	Draize (Rabbit, 4 h): Slightly irritating. No data available.
Carbon Black	No data available.
Octamethylcyclotetrasiloxane	OECD Test Guideline 404 (Rabbit): Non irritating
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:

Product: No data available.

Specified substance(s)

Silica	No data available. (Rabbit): not irritating (not classified according to the German Dangerous Substances legislation)
CYCLOPENTYLSILAZANE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED gamma-Aminopropyltriethoxysilane	Draize (Rabbit, 24 h): Corrosive Risk of serious damage to eyes. No data available.
Carbon Black	No data available.
Octamethylcyclotetrasiloxane	OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit): Non irritating
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
Decamethylcyclopentasiloxane	OECD Test Guideline 405 (Rabbit, 72 h): Non irritating

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Respiratory or Skin

Sensitization:

Product: No data available.

Specified substance(s)

Silica	No data available.
CYCLOPENTYLSILAZ	No data available.
ANE-	
AMINOSILOXANE	
COPOLYMER,	
METHOXY	
TERMINATED	
gamma-	Bühler-Patch-Test skin sensitisation on guinea pigs, OECD-Guideline
Aminopropyltriethoxysil	406 (Skin Sensitisation) (Guinea Pig): Sensitizing
ane	
Carbon Black	No data available.
Octamethylcyclotetrasil	Maximisation Test, OECD-Guideline 406 (Skin Sensitisation) (Guinea
oxane	Pig): Not sensitizing
Dibutyltin Dilaurate	Maximisation Test, OECD Test Guideline 406 (Guinea Pig): Sensitizer
Dodecamethylcyclohex	Maximisation Test, OECD-Guideline 406 (Skin Sensitisation) (Guinea
asiloxane	Pig): negative
Decamethylcyclopentasiloxane	LLNA (Local Lymph Node Assay), OECD Guideline 429 (LLNA) (Mouse): Non sensitizing.

Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s)

Silica	No data available.
CYCLOPENTYLSILAZAN	No data available.
E-AMINOSILOXANE	
COPOLYMER,	
METHOXY	
TERMINATED	
gamma-	No data available.
Aminopropyltriethoxysilan	
e	
Carbon Black	No data available.
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)
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)

In vivo

Product: No data available.

Specified substance(s)

Silica No data available.

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CYCLOPENTYLSILAZAN E-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED gamma- Aminopropyltriethoxysilan e	No data available.
Carbon Black	No data available.
Octamethylcyclotetrasiloxane	Chromosomal aberration (OECD 475) Inhalation (Rat, male and female): negative
Dibutyltin Dilaurate	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.
Dodecamethylcyclohexasiloxane	OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test) (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Intraperitoneal (Mouse, male and female): negative
Decamethylcyclopentasiloxane	(OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female) negative (not mutagenic) Vapor.

Carcinogenicity

Product: No data available.

Specified substance(s)

Silica	No data available.
CYCLOPENTYLSILAZAN E-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED gamma- Aminopropyltriethoxysilan e	No data available.
Carbon Black	No data available.
Octamethylcyclotetrasiloxane	No data available.
Dibutyltin Dilaurate	No data available.
Dodecamethylcyclohexasiloxane	No data available.
Decamethylcyclopentasiloxane	No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

Silica	No data available.
CYCLOPENTYLSILAZAN E-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED gamma- Aminopropyltriethoxysilan e	No data available.
Carbon Black	No data available.
Octamethylcyclotetrasiloxane	No data available.
Dibutyltin Dilaurate	No data available.
Dodecamethylcyclohexasiloxane	No data available.

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Decamethylcyclopentasiloxane No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

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

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

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

Aspiration Hazard

Product: No data available.

Specified substance(s)

Silica	No data available.
CYCLOPENTYLSILAZAN	No data available.
E-AMINOSILOXANE	
COPOLYMER,	
METHOXY	
TERMINATED	
gamma-	No data available.
Aminopropyltriethoxysilane	
Carbon Black	No data available.

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Octamethylcyclotetrasiloxane	No data available.
Dibutyltin Dilaurate	No data available.
Dodecamethylcyclohexasiloxane	No data available.
Decamethylcyclopentasiloxane	No data available.

11.2 Information on other hazards

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:

Silica	No data available.
CYCLOPENTYLSILAZA NE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	No data available.
gamma-Aminopropyltriethoxysilane	No data available.
Carbon Black	No data available.
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)

Silica	LC0 (Brachydanio rerio, 96 h): 5.000 mg/l (No data available.)
CYCLOPENTYLSILAZA NE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	No data available.
gamma-Aminopropyltriethoxysilane	LC 50 (96 h): > 110 mg/l (OECD-Guideline 203 (Fish, Acute Toxicity Test))
Carbon Black	No data available.
Octamethylcyclotetrasiloxane	No toxicity at the limit of solubility ; LC50 (Oncorhynchus mykiss, 96 h): > 0,022 mg/l
Dibutyltin Dilaurate	No data available.
Dodecamethylcyclohexasiloxane	No data available.

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

Aquatic Invertebrates

Product: No data available.

Specified substance(s)

Silica No data available.

CYCLOPENTYLSILA NE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED

gamma-Aminopropyltriethoxysilane

EC50 (Daphnia, 48 h): > 100 mg/l (OECD Test Guideline 202)

Carbon Black

No data available.

Octamethylcyclotetrasiloxane

No toxicity at the limit of solubility ; EC50 (Daphnia magna, 48 h): > 0,015 mg/l

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)

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s)

Silica LC0 (Brachydanio rerio, 4 d): 5.000 mg/l

CYCLOPENTYLSILA NE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED

gamma-Aminopropyltriethoxysilane

No data available.

Carbon Black

No data available.

Octamethylcyclotetrasiloxane

No toxicity at the limit of solubility ; NOEC (Oncorhynchus mykiss, 93 d): >= 0,0044 mg/l

Dibutyltin Dilaurate

No data available.

Dodecamethylcyclohexasiloxane

No toxicity at the limit of solubility ; NOEC (Oncorhynchus mykiss, 91 d): 0,014 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)

Silica No data available.

CYCLOPENTYLSILA NE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED

gamma-

No data available.

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Aminopropyltriethoxysilane	
Carbon Black	No data available.
Octamethylcyclotetrasiloxane	No toxicity at the limit of solubility ; NOEC (Daphnia magna, 21 d): > 0,015 mg/l
Dibutyltin Dilaurate	No data available.
Dodecamethylcyclohexasiloxane	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

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

Silica	No data available.
CYCLOPENTYLSILAZANE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	No data available.
gamma-Aminopropyltriethoxysilane	EC50 (72 h): > 3,6 mg/l (OECD Test Guideline 201)
Carbon Black	No data available.
Octamethylcyclotetrasiloxane	No toxicity at the limit of solubility ; ErC50 (Selenastrum capricornutum, 96 h): > 0,022 mg/l
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

12.2 Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s)

Silica	No data available.
CYCLOPENTYLSILAZANE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	No data available.
gamma-Aminopropyltriethoxysilane	No data available.
Carbon Black	No data available.
Octamethylcyclotetrasiloxane	(29 d, 310 Ready Biodegradability - CO ₂ 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.

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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)

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

12.3 Bioaccumulative potential

Product: No data available.

Specified substance(s)

Silica	No data available.
CYCLOPENTYLSILAZAN	No data available.
E-AMINOSILOXANE	
COPOLYMER,	
METHOXY	
TERMINATED	
gamma-	No data available.
Aminopropyltriethoxysilane	
Carbon Black	No data available.
Octamethylcyclotetrasiloxane	Bioconcentration Factor (BCF): 12.400
Dibutyltin Dilaurate	The product is not bioaccumulating.
Dodecamethylcyclohexasiloxane	No data available.
Decamethylcyclopentasiloxane	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

Silica	No data available.
CYCLOPENTYLSILAZANE	No data available.
-AMINOSILOXANE	
COPOLYMER, METHOXY	
TERMINATED	
gamma-	No data available.
Aminopropyltriethoxysilane	
Carbon Black	No data available.
Octamethylcyclotetrasiloxane	No data available.
Dibutyltin Dilaurate	No data available.
Dodecamethylcyclohexasiloxane	No data available.

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Decamethylcyclopentasiloxane	No data available.	
12.5 Results of PBT and vPvB assessment:		
Silica	Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB)	
CYCLOPENTYLSILAZANE - AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	No data available.	
gamma-	No data available.	
Aminopropyltriethoxysilane	No data available.	
Carbon Black	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>
Octamethylcyclotetrasiloxane		
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)., <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>

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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:	
Silica	No data available.
CYCLOPENTYLSILAZANE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED gamma-Aminopropyltriethoxysilane	No data available.
Carbon Black	No data available.
Octamethylcyclotetrasiloxane	No data available.
Dibutyltin Dilaurate	No data available.
Dodecamethylcyclohexasiloxane	No data available.
Decamethylcyclopentasiloxane	No data available.

12.7 Other adverse effects:

Other hazards

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: 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.

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

SECTION 14: Transport information

ADR

Not regulated.

ADN

Not regulated.

RID

Not regulated.

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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 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: 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 - <=0,1500%
Decamethylcyclopentasiloxane	541-02-6	0 - <=0,1100%

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	1,0 - 10%
Dibutyltin Dilaurate	77-58-7	0,1 - 1,0%

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Octamethylcyclotetrasiloxane	556-67-2	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%
Octamethylcyclotetrasiloxane	556-67-2	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%
Octamethylcyclotetrasiloxane	556-67-2	0,1 - 1,0%

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:

Classification	Lower-tier Requirements	Upper-tier Requirements
P5a. Flammable liquids		
P5b. Flammable liquids		
P5c. Flammable liquids		
Anhydrous Ammonia		
E1. Hazardous to the aquatic environment	100 t	200 t

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

Chemical name	CAS-No.	Concentration
Silica	7631-86-9	10 - 20%
Carbon Black	1333-86-4	0,1 - 1,0%
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	1,0 - 10%
Dibutyltin Dilaurate	77-58-7	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

Australia AICS:	n (negative listing)	Remarks: None.
EU EINECS List:	y (positive listing)	Remarks: None.
Japan (ENCS) List:	y (positive listing)	Remarks: None.
China Inv. 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 Chemical Substance Inventory:	y (positive 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.
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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.
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.

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

Skin Corr. 2, H315
Eye Dam. 2, H319
Skin Sens. 1, H317

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Disclaimer:

Notice to reader

Unless otherwise specified in section 1.2, Momenive 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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