

MATERIAL: Techsil® RTV12026 CLEAR

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

1.1	Product Name:	Techsil® RTV12026 Clear
1.2	Supplier:	Techsil Ltd 34 Bidavon Industrial Estate Waterloo Road Bidford on Avon Warwickshire B50 4JN Tel: +44(0)1789 773232 Fax: +44(0)1789 774239 Email: sales@techsil.co.uk
1.3	Emergency Telephone:	+44(0)7971 228794

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.

Environmental Hazards

Chronic hazards to the aquatic environment Category 3 H412: Harmful to aquatic life with long lasting effects.

2.2 Label Elements:



Signal Words: Warning

Hazard Statement(s):

H319: Causes serious eye irritation.

H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

P264: Wash thoroughly after handling

P273: Avoid release to the environment

P280: Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P337+P313: If eye irritation persists: Get medical advice/attention.

Disposal:

P501: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Supplemental label information

EUH208: Contains (3-Aminopropyltriethoxysilane, Dibutyltin Dilaurate). May produce an allergic reaction.

Unknown toxicity - Health

Acute toxicity, oral 0,33 %

Acute toxicity, dermal 0,33 %

Acute toxicity, inhalation, vapor 0,33 %

Acute toxicity, inhalation, dust or mist 0,33 %

Contact Details

Unknown toxicity - Environment

Acute hazards to the aquatic environment	0 %
Chronic hazards to the aquatic environment	0 %
Acute hazards to the aquatic environment	0,33 %
Chronic hazards to the aquatic environment	0,33 %

Additional Information:

No data available.

2.3 Other Hazards:

No data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

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 YLSILAZANEAMI NOSILOX ANE COPOLYMER, METHOXY TERMINATED	1 - <3%	134759-20-9		No data available.	No data available.	
3-Aminopropyltriethoxysilane	0,1 - <1%	919-30-2	213-048-4	01-2119480479-24-0002	No data available.	
Dibutyltin Dilaurate	0,25 - <1%	77-58-7	201-039-8	01-2119496068-27-0001	1	#
Dodecamethylcyclohexasiloxane	0,1 - <1%	540-97-6	208-762-8	01-2119517435-42-0001	No data available.	vPvB
Decamethylcyclopentasiloxane	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
CYCLOPENTYLSILAZAN E-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED	Eye Dam.: 1: H318; Skin Corr.: 2: H315;	
3-Aminopropyltriethoxysilane	Skin Sens.: 1: H317; Acute Tox.: 4: H302; Skin Corr.: 1B: H314; Eye Dam.: 1: H318;	No data available.
Dibutyltin Dilaurate	STOT SE: 1: H370; Skin Corr.: 1C: H314; STOT RE: 1: H372; Skin Sens.: 1: H317; Eye Dam.: 1: H318; Aquatic Chronic: 1: H410; Aquatic Acute: 1: H400;	No data available.
Dodecamethylcyclohexasiloxane	No data available.	

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Decamethylcyclopentasiloxane	No data available.	
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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!

4.3 Indication of any Immediate Medical Attention and Special Treatment Needed:

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:

In case of fire, carbon monoxide and carbon dioxide may be formed.

5.3 Advice for Fire-fighters:

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.

Contact Details

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 and 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
Dibutyltin Dilaurate - as Sn	TWA	0,1 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)
	STEL	0,2 mg/m ³	UK. EH40 Workplace Exposure Limits (WELs) (12 2011)

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		
		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	Route of Exposure	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	

Contact Details

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 Material 730 Camatril, Glove thickness 0,4 mm, Guideline EN 374
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.

Environmental exposure controls: No data available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance	Solid
Physical state:	Paste
Form:	Colourless
Colour:	Faint
odour:	No data available.
odour Threshold:	No data available.
pH:	No data available.
Melting Point:	No data available.
Boiling Point:	No data available.
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.
Vapor density (air=1):	No data available.
Density:	No data available.
Relative density:	No data available.
Solubility(ies)	No data available.
Solubility in Water:	Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water) Log	No data available.
Pow:	
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:	
Explosive properties:	No data available.
Oxidizing properties:	No data available.

9.2 Other Information:

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Contact Details

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: Not classified for acute toxicity based on available data.

Specified substance(s) Not classified for acute toxicity based on available data.

CYCLOPENTYLSILAZA LD 50 (Rat): 4.666 mg/kg

NE-AMINOSILOXANE

COPOLYMER, METHOXY

TERMINATED

3- Aminopropyltriethoxysilane LD 50 (Rat): 1.570 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) Not classified for acute toxicity based on available data.

CYCLOPENTYLSILAZA No data available.

NE-AMINOSILOXANE

COPOLYMER, METHOXY

TERMINATED

3- Aminopropyltriethoxysilane LD 50 (Rabbit): 4.290 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

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Inhalation

Product:

Specified substance(s)

CYCLOPENTYLSILAZA

NE-AMINOSILOXANE

COPOLYMER, METHOXY

TERMINATED

3- Aminopropyltriethoxysilane

Dibutyltin Dilaurate

Dodecamethylcyclohexasiloxane

Decamethylcyclopentasiloxane

Not classified for acute toxicity based on available data.

Not classified for acute toxicity based on available data.

No data available.

LC50 (Rat, 6 h):

LC50 (Rat, 6 h):

No data available.

No data available.

LC50 (Rat, 4 h): 8,67 mg/l

Repeated dose toxicity

Product:

Specified substance(s)

CYCLOPENTYLSILAZA

NE-AMINOSILOXANE

COPOLYMER, METHOXY

TERMINATED

3- Aminopropyltriethoxysilane

Dibutyltin Dilaurate

Dodecamethylcyclohexasiloxane

Decamethylcyclopentasiloxane

No data available.

No data available.

NOAEL (Rat, Oral, 90 d): 200 mg/kg

LOAEL (Rat, Oral, 90 d): 600 mg/kg

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

NOAEL (Rat (male and female), Oral, 90 d): 1.000 mg/kg

NOAEL (Rat (male and female), Dermal, 28 d): 1.600 mg/kg

mg/kg

mg/kg

NOAEC (Rat (male and female), Inhalation - vapor, 2 y): 160 ppm

Skin Corrosion/Irritation:

Product:

Specified substance(s)

CYCLOPENTYLSILAZA

NE-AMINOSILOXANE

COPOLYMER, METHOXY

TERMINATED

3- Aminopropyltriethoxysilane

Dibutyltin Dilaurate

Dodecamethylcyclohexasiloxane

Decamethylcyclopentasiloxane

No data available.

Draize (Rabbit, 4 h): Slightly irritating.

OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit, 4 h): Corrosive

(Rabbit): Severe skin irritation.

OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit, 72 h):

No skin irritation

OECD Test Guideline 404 (Rabbit, 72 h): Non irritating

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Serious Eye Damage/Eye

Product:	No data available.
Specified substance(s) CYCLOPENTYLSILAZA NE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED 3- Aminopropyltriethoxysilane	Draize (Rabbit, 24 h): Corrosive Risk of serious damage to eyes.
Dibutyltin Dilaurate	OECD-Guideline 405 (Acute Eye Irritation/Corrosion) (Rabbit, 72 h): Strongly 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:

Product:	No data available.
Specified substance(s) CYCLOPENTYLSILAZA NE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED 3- Aminopropyltriethoxysilane Dibutyltin Dilaurate	No data available.
Dodecamethylcyclohexasiloxane	(Guinea Pig) positive. Maximisation Test, OECD Test Guideline 406 (Guinea Pig): Sensitizer
Decamethylcyclopentasiloxane	Maximisation Test, OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig): negative LLNA (Local Lymph Node Assay), OECD Guideline 429 (LLNA) (Mouse): Non sensitizing.

Germ Cell Mutagenicity

In vitro

Product:	No data available.
Specified substance(s) CYCLOPENTYLSILAZA NE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED 3- Aminopropyltriethoxysilane	No data available.
Dibutyltin Dilaurate	Ames-Test: negative Chinese Hamster Ovary (CHO): negative Chromosomal aberration: negative
Dodecamethylcyclohexasiloxane	Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic) Mammalian cytogenicity test (OECD 476): negative
Decamethylcyclopentasiloxane	Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative 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)

Contact Details

Germ Cell Mutagenicity

In vivo

Product:	No data available.
Specified substance(s)	
CYCLOPENTYLSILAZA	No data available.
NE-AMINOSILOXANE	
COPOLYMER, METHOXY	
TERMINATED	
3- Aminopropyltriethoxysilane	No data available.
Dibutyltin Dilaurate	(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))
Decamethylcyclopentasiloxane	Intraperitoneal (Mouse, male and female): negative (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female) negative (not mutagenic) Vapor.

Carcinogenicity

Product:	No data available.
Specified substance(s)	
CYCLOPENTYLSILAZA	No data available.
NE-AMINOSILOXANE	
COPOLYMER, METHOXY	
TERMINATED	
3- Aminopropyltriethoxysilane	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)	
CYCLOPENTYLSILAZA	No data available.
NE-AMINOSILOXANE	
COPOLYMER, METHOXY	
TERMINATED	
3- Aminopropyltriethoxysilane	No data available.
Dibutyltin Dilaurate	No data available.
Dodecamethylcyclohexasiloxane	No data available.
Decamethylcyclopentasiloxane	No data available.

Specific Target Organ Toxicity - Single Exposure

Product:	No data available.
Specified substance(s)	
CYCLOPENTYLSILAZA	No data available.
NE-AMINOSILOXANE	
COPOLYMER, METHOXY	
TERMINATED	
3- Aminopropyltriethoxysilane	No data available.
Dibutyltin Dilaurate	No data available.
Dodecamethylcyclohexasiloxane	No data available.
Decamethylcyclopentasiloxane	No data available.

Contact Details

Specific Target Organ Toxicity - Repeated Exposure

Product:	No data available.
Specified substance(s)	
CYCLOPENTYLSILAZA	No data available.
NE-AMINOSILOXANE	
COPOLYMER, METHOXY	
TERMINATED	
3- Aminopropyltriethoxysilane	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)	
CYCLOPENTYLSILAZA	No data available.
NE-AMINOSILOXANE	
COPOLYMER, METHOXY	
TERMINATED	
3- Aminopropyltriethoxysilane	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)	
CYCLOPENTYLSILAZA	No data available.
NE-AMINOSILOXANE	
COPOLYMER, METHOXY	
TERMINATED	
3- Aminopropyltriethoxysilane	LC50 (Brachydanio rerio, 96 h): > 934 mg/l (OECD Test Guideline 203)
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)	
CYCLOPENTYLSILAZA	No data available.
NE-AMINOSILOXANE	
COPOLYMER, METHOXY	
TERMINATED	
3- Aminopropyltriethoxysilane	EC50 (Daphnia magna, 48 h): 331 mg/l (OECD-Guideline 202)
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)

Contact Details

Chronic Toxicity

Fish

Product:	No data available.
Specified substance(s)	
CYCLOPENTYLSILAZA	No data available.
NE-AMINOSILOXANE	
COPOLYMER, METHOXY	
TERMINATED	
3- Aminopropyltriethoxysilane	No data available
Dibutyltin Dilaurate	No data available
Dodecamethylcyclohexasiloxane	NOEC (Pimephales promelas, 49 d): 0,0044 mg/l
Decamethylcyclopentasiloxane	NOEC (Oncorhynchus mykiss, 90 d): \geq 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)	
CYCLOPENTYLSILAZA	No data available.
NE-AMINOSILOXANE	
COPOLYMER, METHOXY	
TERMINATED	
3- Aminopropyltriethoxysilane	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): \geq 420 mg/l
Decamethylcyclopentasiloxane	NOEC (Daphnia magna, 21 d): \geq 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)	
CYCLOPENTYLSILAZA	No data available.
NE-AMINOSILOXANE	
COPOLYMER, METHOXY	
TERMINATED	
3- Aminopropyltriethoxysilane	EC50 (Desmodesmus subspicatus (green algae), 72 h): $>$ 1.000 mg/l NOEC (Desmodesmus subspicatus (green algae), 72 h): 1,3 mg/l
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): \geq 0,002 mg/l (OECD Test Guideline 201)
Decamethylcyclopentasiloxane	EC50 (Algae (Pseudokirchneriella subcapitata), 96 h): $>$ 0,0012 mg/l (OECD Test Guideline 201) NOEC : \geq 0,0012 mg/l EC10 : $>$ 0,0012 mg/l

Contact Details

12.2 Persistence and Degradability:

Biodegradation

Product:	No data available.
Specified substance(s)	
CYCLOPENTYLSILAZA	No data available.
NE-AMINOSILOXANE	
COPOLYMER, METHOXY	
TERMINATED	
3- Aminopropyltriethoxysilane	(28 d): 67 % Not readily degradable. hydrolyses
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)	
CYCLOPENTYLSILAZA	No data available.
NE-AMINOSILOXANE	
COPOLYMER, METHOXY	
TERMINATED	
3- Aminopropyltriethoxysilane	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)	
CYCLOPENTYLSILAZA	No data available.
NE-AMINOSILOXANE	
COPOLYMER, METHOXY	
TERMINATED	
3- Aminopropyltriethoxysilane	Cyprinus carpio, Bioconcentration Factor (BCF): 3,4 (Measured) The product is not bioaccumulating.
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

CYCLOPENTYLSILAZA	No data available.
NE-AMINOSILOXANE	
COPOLYMER, METHOXY	
TERMINATED	
3- Aminopropyltriethoxysilane	No data available.
Dibutyltin Dilaurate	No data available.
Dodecamethylcyclohexasiloxane	No data available.
Decamethylcyclopentasiloxane	No data available.

Contact Details

12.5 Results of PBT and vPvB Assessment:

vPvB: very persistent and very bioaccumulative substance.	
CYCLOPENTYLSILAZA	No data available.
NE-AMINOSILOXANE	
COPOLYMER, METHOXY	
TERMINATED	
3- Aminopropyltriethoxysilane	Not fulfilling PBT (persistent/bioaccumulative/toxic) criteria, Not fulfilling vPvB (very persistent/very bioaccumulative) criteria
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

Contact Details

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). 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.

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.

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.

14.1 UN Number:

-

14.2 UN Proper Shipping Name:

-

Contact Details

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14.3 Transport Hazard Class(es):

-

14.4 Packing Group:

-

14.5 Environmental Hazards:

-

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 MARPOL73/78 and the IBC Code:

Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health & 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
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:

Chemical name	CAS-No.	Concentration
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.: 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%

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

Chemical name	CAS-No.	Concentration
3-Aminopropyltriethoxysilane	919-30-2	0,1 - 1,0%

15.2 Chemical Safety Assessment:

Inventory Status

Australia AICS:	T (temporary special case)	Remarks: None.
Canada DSL Inventory List:	Q (quantity restricted)	Remarks: None.
EINECS, ELINCS or NLP:	On or in compliance with the inventory	Remarks: None.
Japan (ENCS) List:	On or 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.
Canada NDSL Inventory:	On or in compliance with the inventory	Remarks: None.
Philippines PICCS:	On or in compliance with the inventory	Remarks: None.
US TSCA Inventory:	On or in compliance with the inventory	Remarks: None.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory	Remarks: None.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	Remarks: None.

SECTION 16: OTHER INFORMATION

Wording of the H-statements in section 2 and 3

- 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.
- 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.
- H412 Harmful to aquatic life with long lasting effects.

DISCLAIMER

This 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 other process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for their particular use.

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