

MATERIAL: Techsil® RTV12120 CLEAR

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

COMPANY/UNDERTAKING

1.1 Product Name: Techsil® RTV12120 Clear

1.2 Supplier: Techsil Ltd

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1.3 Emergency

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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.

Toxic to reproduction Category 1B H360FD: May damage fertility. May damage

the unborn child.

Environmental Hazards

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

environment effects.

2.2 Label Elements:

Contains: CYCLOPENTYLSILAZANE-AMINOSILOXANE COPOLYMER, METHOXY TERMINATED

Dibutyltin Dilaurate



Signal Words: Danger **Hazard Statement(s):**

H319: Causes serious eye irritation.

H360FD: May damage fertility. May damage the unborn child. H412: Harmful to aquatic life with long lasting effects.

Precautionary Statements

Prevention:

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P273: Avoid release to the environment.

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

Response:

P305+P351+ IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

P338: present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER/doctor.

P308+P313: IF exposed or concerned: 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.

Contact Details

Techsil Ltd



Supplemental label information

Contains: gamma-AminopropyltriethoxysilaneDibutyltin 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 %

Unknown toxicity - Environment

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

Additional Information:

No data available.

2.3 Other Hazards:

No data available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances:

Chemical nature: Mixture of polydimethylsiloxanes, fillers and cross-linkers.

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.	
gamma- Aminopropyltriet hoxysilane	0,1 - <1%	919-30-2	213-048- 4	01- 2119480479- 24-0002	No data available.	
Dibutyltin Dilaurate	0,3 - <1%	77-58-7	201-039- 8	01- 2119496068- 27-0001		
Decamethylcycl opentasiloxane	0,1 - <1%	541-02-6	208-764- 9	01- 2119511367- 43-0002	No data available.	vPvB
Dodecamethylcy clohexasiloxane	0,1 - <1%	540-97-6	208-762- 8	01- 2119517435- 42-0001	No data available.	vPvB
Octamethylcyclo tetrasiloxane	0,1 - <1%	556-67-2	209-136- 7	01- 2119529238- 36-0001	No data available.	PBT, vPvB

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

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

^{# #} This substance has workplace exposure limit(s).



Classification

Chemical name	Classification	Notes
CYCLOPENT YLSILAZANEAMINOSILOX ANE COPOLYMER, METHOXY TERMINATED	Eye Dam.: 1: H318; Skin Corr.: 2: H315;	
gamma- Aminopropyltriethoxysilane	Skin Sens.: 1: H317; Acute Tox.: 4: H302; Skin Corr.: 1B: H314; Eye Dam.: 1: H318;	No data available.
Dibutyltin Dilaurate	STOT SE: 1: H370; Skin Corr.: 1C: H314; Skin Sens.: 1: H317; Eye Dam.: 1: H318; Muta.: 2: H341; Repr.: 1B: H360FD; STOT RE: 1: H372; Aquatic Chronic: 1: H410; Aquatic Acute: 1: H400;	No data available.
Decamethylcyclopentasiloxane	No data available.	
Dodecamethylcyclohexasiloxane	No data available.	
Octamethylcyclotetrasiloxane	Flam. Liq.: 3: H226; Repr.: 2: H361f; Aquatic Chronic: 2: H411;	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.

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 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:

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 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.

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

Biological Limit Values

None.



DNEL-Values

Critical component	Туре	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	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	

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

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

Wear suitable protective clothing. Other:

In case of insufficient ventilation, wear suitable respiratory **Respiratory Protection:**

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. No data available.

Environmental exposure

controls:



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance Liquid
Physical state: Liquid
Form: Colourless
Colour: Faint

odour:No data available.odour Threshold:No data available.pH:No data available.Freezing Point:No data available.Boiling Point:No data available.

Flash Point: 198 °C

No data available. **Evaporation Rate:** Flammability (solid, gas): No data available. Flammability Limit - Upper (%): No data available. No data available. Flammability Limit - Lower (%): No data available. Vapor pressure: No data available. Vapor density (air=1): > 1,04 g/cm3 (23 °C) **Density:** 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:
Viscosity, dynamic:
Viscosity, kinematic:
S0.000 mPa's (23 °C)
Viscosity, kinematic:
S20,5 mm2/s (40 °C)
Explosive properties:
No data available.
Oxidizing properties:
No data available.

9.2 Other Information:

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)

CYCLOPENTYLSILAZA LD 50 (Rat): 4.666 mg/kg

NE-AMINOSILOXANE COPOLYMER, METHOXY

TERMINATED

gamma-Aminopropyltriethoxysilane LD 50 (Rat): 1.570 mg/kg Dibutyltin Dilaurate LD 50 (Rat): 2.071 mg/kg

Decamethylcyclopentasiloxane No data available.

Dodecamethylcyclohexasiloxane LD 50 (Rat): 2.000 mg/kg Octamethylcyclotetrasiloxane LD 50 (Rat): 4.800 mg/kg

Dermal

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

Specified substance(s)

CYCLOPENTYLSILAZA No data available.

NE-AMINOSILOXANE COPOLYMER, METHOXY

TERMINATED

gamma-Aminopropyltriethoxysilane LD 50 (Rabbit): 4.290 mg/kg Dibutyltin Dilaurate LD 50 (Rat): > 2.000 mg/kg

Decamethylcyclopentasiloxane

Decamethylcyclohexasiloxane

Dodecamethylcyclohexasiloxane

Capabit Sidnard Control Cont

Inhalation

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

Specified substance(s)CYCLOPENTYLSILAZA

No data available.

NE-AMINOSILOXANE COPOLYMER, METHOXY

TERMINATED

gamma-Aminopropyltriethoxysilane LC50 (Rat, 6 h):

LC50 (Rat, 6 h):

Dibutyltin Dilaurate No data available.

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

Dodecamethylcyclohexasiloxane No data available.
Octamethylcyclotetrasiloxane LC50 (Rat, 4 h): 36 mg/l



Repeated dose toxicity

Product:

Specified substance(s)

CYCLOPENTYLSILAZA **NE-AMINOSILOXANE** COPOLYMER, METHOXY

TERMINATED

gamma-Aminopropyltriethoxysilane

Dibutyltin Dilaurate

Decamethylcyclopentasiloxane

Dodecamethylcyclohexasiloxane

Octamethylcyclotetrasiloxane

Skin Corrosion/Irritation: **Product:**

Specified substance(s) CYCLOPENTYLSILAZA

NE-AMINOSILOXANE COPOLYMER, METHOXY

TERMINATED

gamma-Aminopropyltriethoxysilane

Dibutyltin Dilaurate Decamethylcyclopentasiloxane

Dodecamethylcyclohexasiloxane

Octamethylcyclotetrasiloxane

Serious Eye Damage/Eye **Product:**

Specified substance(s) **CYCLOPENTYLSILAZA**

NE-AMINOSILOXANE COPOLYMER, METHOXY

TERMINATED

gamma-Aminopropyltriethoxysilane

Dibutyltin Dilaurate

Decamethylcyclopentasiloxane Dodecamethylcyclohexasiloxane

Octamethylcyclotetrasiloxane

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, 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

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

NOAEL (Rat(male and female), Inhalation - vapor(vapour)):

150 mg/kg

NOAEL (Rabbit(male and female), Dermal): 950 mg/kg LOAEL (Rabbit(male and female), Dermal): 950 mg/kg

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

(Rabbit, 72 h): No skin irritation

OECD-Guideline 404 (Acute Dermal Irritation/Corrosion)

(Rat): No skin irritation

No data available.

Draize (Rabbit, 24 h): Corrosive Risk of serious damage

to eyes.

OECD-Guideline 405 (Acute Eye Irritation/Corrosion)

(Rabbit, 72 h): Strongly irritating.

OECD Test Guideline 405 (Rabbit, 21 d): Strongly

irritating. Irritating to eyes.

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

(Rabbit, 72 h): No eye irritation Not irritating

OECD-Guideline 405 (Acute Eye Irritation/Corrosion)

(Rabbit): Not irritating



Respiratory or Skin Sensitization:

Product: No data available.

Specified substance(s) CYCLOPENTYLSILAZA

NE-AMINOSILOXANE

COPOLYMER, METHOXY

TERMINATED

gamma-Aminopropyltriethoxysilane

Dibutyltin Dilaurate

(Guinea Pig)positive

No data available.

Maximisation Test, OECD Test Guideline 406 (Guinea

Pig): Sensitizer

Decamethylcyclopentasiloxane LLNA (Local Lymph Node Assay), OECD Guideline 429

(LLNA) (Mouse): Non sensitizing.

Dodecamethylcyclohexasiloxane Maximisation Test, OECD-Guideline 406 (Skin

Sensitisation) (Guinea Pig): negative

Octamethylcyclotetrasiloxane OECD-Guideline 406 (Skin Sensitisation) (Guinea Pig)Not

No data available.

No data available.

sensitizing

Germ Cell Mutagenicity

In vitro Product:

Specified substance(s)

CYCLOPENTYLSILAZA NE-AMINOSILOXANE COPOLYMER, METHOXY

Decamethylcyclopentasiloxane

TERMINATED

gamma-Aminopropyltriethoxysilane

Ames-Test: negative

Chinese Hamster Ovary (CHO): negative Chromosomal aberration: negative

Dibutyltin Dilaurate Ames-Test (OECD-Guideline 471 (Genetic Toxicology:

Salmonella typhimurium, Reverse Mutation Assay)):

negative (not mutagenic)

Mammalian cytogenicity test (OECD 476): negative Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)):

negative (not mutagenic)

Mammalian cytogenicity test (Mouse Lymphoma Assay (OECD Guidline 476)): negative (not mutagenic) Chromosomal aberration (OECD 473): negative (not

mutagenic)

Dodecamethylcyclohexasiloxane Ames-Test (OECD-Guideline 471 (Genetic Toxicology:

Salmonella typhimurium, Reverse Mutation Assay)):

negative

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)



Germ Cell Mutagenicity

In vivo

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZA NE-AMINOSILOXANE COPOLYMER, METHOXY

TERMINATED

gamma-Aminopropyltriethoxysilane

Dibutyltin Dilaurate

No data available.

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

evaluation is based on the toxicological properties of a

similar material.

Decamethylcyclopentasiloxane (OECD-Guideline 474 (Genetic Toxicology: Micronucleus

Test)) Inhalation (Rat, male and female) negative (not

mutagenic) Vapor.

Dodecamethylcyclohexasiloxane OECD-Guideline 474 (Genetic Toxicology: Micronucleus

Test) (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Intraperitoneal (Mouse, male and

female): negative

Octamethylcyclotetrasiloxane Chromosomal aberration (OECD-Guideline 474 (Genetic

Toxicology: Micronucleus Test)) Inhalation (Rat, male

and female): negative

Dominant lethal assay (OECD 478) Oral (Rat, male and

female): negative

Carcinogenicity

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZA NE-AMINOSILOXANE COPOLYMER, METHOXY

TERMINATED

gamma-Aminopropyltriethoxysilane

Dibutyltin Dilaurate

Decamethylcyclopentasiloxane Dodecamethylcyclohexasiloxane Octamethylcyclotetrasiloxane No data available.

No data available.

No data available.

No data available. No data available.

No data available.

Reproductive toxicity

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZA

NE-AMINOSILOXANE COPOLYMER, METHOXY

TERMINATED

gamma-Aminopropyltriethoxysilane

Dibutyltin Dilaurate

Decamethylcyclopentasiloxane
Dodecamethylcyclohexasiloxane
Octamethylcyclotetrasiloxane

NO data available.

No data available.

No data available. No data available.

No data available.

No data available.

No data available.

Contact Details

Techsil Ltd



Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZA No data available.

NE-AMINOSILOXANE COPOLYMER, METHOXY

TERMINATED

gamma-Aminopropyltriethoxysilane Dibutyltin Dilaurate No data available. No data available. Decamethylcyclopentasiloxane No data available. No data available. Octamethylcyclotetrasiloxane No data available. No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZA No data available.

NE-AMINOSILOXANE COPOLYMER, METHOXY

TERMINATED

gamma-Aminopropyltriethoxysilane No data available. No data available. Decamethylcyclopentasiloxane No data available. No data available. No data available. Octamethylcyclotetrasiloxane No data available. No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZA No data available.

NE-AMINOSILOXANE COPOLYMER, METHOXY

TERMINATED

gamma-Aminopropyltriethoxysilane

Dibutyltin Dilaurate

Decamethylcyclopentasiloxane

Dodecamethylcyclohexasiloxane

Octamethylcyclotetrasiloxane

No data available.

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

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

No data available.

Guideline 203)

Dibutyltin Dilaurate No data available.

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

(OECD-Guideline 204)

Dodecamethylcyclohexasiloxane No data available.
Octamethylcyclotetrasiloxane No data available.



Aquatic Invertebrates

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZA No data available.

NE-AMINOSILOXANE COPOLYMER, METHOXY

TERMINATED

gamma-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

Decamethylcyclopentasiloxane EC50 (Daphnia magna, 48 h): > 0,0029 mg/l (OECD

Test Guideline 202)

Dodecamethylcyclohexasiloxane No data available.
Octamethylcyclotetrasiloxane No data available.

Chronic Toxicity

Fish

Product: No data available.

Specified substance(s) CYCLOPENTYLSILAZA NE-AMINOSILOXANE COPOLYMER, METHOXY

TERMINATED

gamma-Aminopropyltriethoxysilane No data available.

Dibutyltin Dilaurate No data available.

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)

Dodecamethylcyclohexasiloxane NOEC (Pimephales promelas, 49 d): 0,0044 mg/l

Octamethylcyclotetrasiloxane No data available.

Aquatic Invertebrates

Product: No data available.

Specified substance(s)CYCLOPENTYLSILAZA

No data available.

NE-AMINOSILOXANE COPOLYMER, METHOXY

TERMINATED

gamma-Aminopropyltriethoxysilane No data available.

Dibutyltin Dilaurate No data available.

Decamethylcyclopentasiloxane NOEC (Daphnia magna, 21 d): >= 0.0015 mg/l (OECD-

Guideline 211)

 $\begin{tabular}{ll} LOEC (Daphnia magna, 21 d): > 0,0015 mg/l\\ Dodecamethylcyclohexasiloxane & NOEC (Daphnia magna, 21 d): 0,0046 mg/l\\ \end{tabular}$

EC50 (Sediment Invertebrate, 28 d): > 420 mg/l LOEC (Sediment Invertebrate, 28 d): >= 420 mg/l

Octamethylcyclotetrasiloxane No data available.



Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZA No data available.

NE-AMINOSILOXANE COPOLYMER, METHOXY

TERMINATED

gamma-Aminopropyltriethoxysilane EC50 (Desmodesmus subspicatus (green algae), 72 h):

> 1.000 mg/l

NOEC (Desmodesmus subspicatus (green algae), 72 h):

1,3 mg/l

Dibutyltin Dilaurate EC50 (Desmodesmus subspicatus (green algae), 72 h):

> 1 mg/l (OECD Test Guideline 201) Fresh water

Decamethylcyclopentasiloxane EC50 (Algae (Pseudokirchneriella subcapitata), 96 h): >

0,0012 mg/l (OECD Test Guideline 201)

NOEC : >= 0,0012 mg/lEC10 : > 0,0012 mg/l

Dodecamethylcyclohexasiloxane EC50 (Algae (Pseudokirchneriella subcapitata), 72 h): >

0,002 mg/l (OECD Test Guideline 201)

NOEC (Algae (Pseudokirchneriella subcapitata), 72 h):

>= 0,002 mg/l (OECD Test Guideline 201)

Octamethylcyclotetrasiloxane No data available.

12.2 Persistence and Degradability:

Biodegradation

Product: No data available.

Specified substance(s)

CYCLOPENTYLSILAZA No data available.

NE-AMINOSILOXANE COPOLYMER, METHOXY

TERMINATED

gamma-Aminopropyltriethoxysilane (28 d): 67 % Not readily degradable. hydrolyses

Dibutyltin Dilaurate Biological degradability (39 d): 23 % The product is not

readily biodegradable.

Decamethylcyclopentasiloxane activated sludge (adaptation not specified) (28 d, OECD

Test Guideline 310): 0,14 % The product is not readily

biodegradable.

Dodecamethylcyclohexasiloxane No data available.

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)

CYCLOPENTYLSILAZA No data available.

NE-AMINOSILOXANE COPOLYMER, METHOXY

TERMINATED

gamma-Aminopropyltriethoxysilane No data available.

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



Bioaccumulative Potential: 12.3

> **Product:** No data available.

Specified substance(s)

CYCLOPENTYLSILAZA No data available. **NE-AMINOSILOXANE**

COPOLYMER, METHOXY **TERMINATED**

gamma-Aminopropyltriethoxysilane Cyprinus carpio, Bioconcentration Factor (BCF): 3,4

(Measured) The product is not bioaccumulating.

Dibutyltin Dilaurate The product is not bioaccumulating.

Fathead Minnow, Bioconcentration Factor (BCF): 7.060 Decamethylcyclopentasiloxane

(OECD Test Guideline 305)

Dodecamethylcyclohexasiloxane No data available.

Octamethylcyclotetrasiloxane Fathead Minnow, Bioconcentration Factor (BCF): 12,40

12.4 **Mobility in Soil:**

No data available.

Known or predicted distribution to environmental compartments

CYCLOPENTYLSILAZA No data available.

NE-AMINOSILOXANE COPOLYMER, METHOXY

TERMINATED

gamma-Aminopropyltriethoxysilane No data available.

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

12.5 **Results of PBT and vPvB Assessment:**

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

CYCLOPENTYLSILAZA No data available.

NE-AMINOSILOXANE COPOLYMER, METHOXY

TERMINATED

Not fulfilling PBT gamma-Aminopropyltriethoxysilane

> (persistent/bioaccumulativ e/toxic) criteria, Not fulfilling vPvB (very persistent/very

bioaccummulative) criteria

Dibutyltin Dilaurate No data available.

Decamethylcyclopentasiloxane vPvB: very persistent and

very bioaccumulative

substance.

Decamethylcyclopentasilox ane (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



Dodecamethylcyclohexasiloxane

vPvB: very persistent and very bioaccumulative

substance.

Octamethylcyclotetrasiloxane

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

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. Dodecamethylcyclohexasil oxane (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 Octamethylcyclotetrasiloxa ne (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)., 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.

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.

- **UN Number:** 14.1
- 14.2 **UN Proper Shipping Name:**

- 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

Transport in Bulk According to Annex II of MARPOL73/78 and the IBC Code: 14.7

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%
Octamethylcyclotetrasiloxane	556-67-2	0 - <=0,1140%

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

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

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

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

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

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

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

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

CAS-No.	Concentration
919-30-2	0,1 - 1,0%
556-67-2	0,1 - 1,0%
	919-30-2



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: y (positive listing) Remarks: None.
Japan (ENCS) List: y (positive listing) Remarks: None.
China Inv. Existing Chemical y (positive listing) Remarks: None.

Substances:

Korea Existing Chemicals Inv. y (positive listing) Remarks: None.

(KECI):

Canada NDSL Inventory:n (Negative listing)Remarks: None.Philippines PICCS:y (positive listing)Remarks: None.US TSCA Inventory:y (positive listing)Remarks: None.Taiwan Chemical Substancey (positive listing)Remarks: None.

SECTION 16: OTHER INFORMATION

Wording of the H-statements in section 2 and 3

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