

**Cautionary advice****Prevention:**

P273: Do not release into the environment. P273: Do not release into the environment.

Disposal:

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

2.3 Other dangers**Results of PBT and vPvB assessment**

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

Endocrine Disrupting Properties-Toxicity

The substance/mixture does not contain any components considered to have endocrine disrupting properties within the meaning of Article 57(f) of REACH 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 any components considered to have endocrine disrupting properties within the meaning of Article 57(f) of REACH 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**3.1 Substances****Chemical name**

Silicone and siloxane, dimethyl derivative, reaction product with silicon dioxide

EU index number:**CAS NUMBER:**

67762-90-7

EC No.:**REACH Registration No.:**

01-2119379499-16-0000 (TPR)

Name chemistry	concentration <small>neither</small>	CAS NUMBER	EC No.	No. of registration REACH	M-factor:	Note
Silicone and siloxane, dimethyl derivative, product of reaction with silicon dioxide		67762-90-7		01-2119379499-16	No data available.	
Decamethylcyclotri-siloxane	0.1 - <1%	541-02-6	208-764-9	01-2119511367-43	No data available.	# #
octamethylcyclotri-siloxane	0.01 - <0.1%	556-67-2	209-136-7	01-2119529238-36	Toxicity aquatic (acute): 10;	# #



						Toxicity aquatic (chronic): 10
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* In the case of gaseous components, the concentrations are expressed as a volume percentage, in the other cases as a weight percentage.

This substance has specified workplace exposure limits.

This substance is listed as a SVHC.

Classification

Chemical name	Classification	Note
silicone and siloxane, dimethyl derivative, reaction product with silicon dioxide	Classification:Not known. Additional information on labels:Not known. Specific Concentration Limit: Not known. Acute toxicity, oral:LD 50:>5,000 mg/kg Acute toxicity, by inhalation:LC 50:>5.01 mg/l Acute toxicity, dermal:LD 50:>5,000 mg/kg	No given available And.
Decamethylcyclopentasiloxane	Classification:Not known. Additional information on labels:Not known. Specific Concentration Limit: Not known. Acute toxicity, oral:LD 50:>5,000 mg/kg Acute toxicity, by inhalation:LC 50:8.67 mg/l Acute toxicity, dermal:LD 50:>2,000 mg/kg	No given available And.
octamethylcyclotetrasiloxane	Classification:Flam. Liq.:3:H226;Repr.:2:H361f;Aquatic Chronic :1:H410; Additional information on labels:Not known. Specific Concentration Limit: Not known. Acute toxicity, oral:LD 50:>5,000 mg/kg	No given available And.
	Acute toxicity, by inhalation:LC 50:36 mg/l Acute toxicity, dermal:LD 50:>5,000 mg/kg	

CLP: Regulation no. 1272/2008.

This substance/mixture contains nano-forms within the meaning of the REACH regulation (EC) 1907/2006.

The product does not fall under the definition of "nano-material" and/or "engineered nano-material" according to the Cosmetic Products Regulation ((EC) 1223/2009) and the Food Information Regulation ((EC) 1169 /2011).

SECTION 4: first aid measures**4.1 Description of necessary first aid measures**

CECCHI GUSTAVO & C.

Via M. Coppino 253 - 55049 Viareggio (LU) ITALY
tel. +39 0584 383694 fax +39 0584 395182
www.cecchi.it - info@cecchi.it



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Inhalation:	If product dust is released into the environment: Possible disturbances: coughing, sneezing Move to fresh air.
Skin Contact:	Wash off with plenty of soap and water.
Eye contact:	Any disturbances such as in the case of contact with any foreign body. With open eyelid, wash thoroughly with plenty of water. In case of persistent disturbances: consult an ophthalmologist.
Ingestion:	Rinse mouth with water and drink plenty of it. After ingestion of larger quantities of substance / in case of complaints take to doctor.
Personal protections for first aiders:	No data available.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	Not known.
Risks:	Not known.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment:	There are no hazards that require special first aid measures.
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SECTION 5: Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray, foam, CO₂, dry powder Choose the extinguisher according to the environment

Unsuitable extinguishing media: Do not use any full water jet to avoid spreading or expanding the fire.

5.2 Special hazards arising from the substance or mixture: In case of fire, the following can be released: carbon monoxide, carbon dioxide, organic decomposition products.

5.3 Advice for firefighters

Special Fire Fighting Procedures: The extinguishing water must not reach the sewers, the groundwater, or surface waters. Provide a sufficient supply of water for extinguishing. Dispose of the contaminated water used for extinguishing and the residue of the fire according to the regulations in force.

Special protective equipment for firefighters: In the event of fire, wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

CECCHI GUSTAVO & C.

Via M. Coppino 253 - 55049 Viareggio (LU) ITALY
tel. +39 0584 383694 fax +39 0584 395182
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6.1 Personal precautions, protective equipment and procedures in case of emergency:	Wear personal protective equipment. Avoid dust formation.
6.1.1 For those who do not intervene directly:	No data available.
6.1.2 For those who intervene directly:	No data available.
6.2 Environmental precautions:	Do not allow product to enter wastewater, soil, groundwater (aquifer), and sewer.
6.3 Methods and materials for containment and cleaning up:	Sweep up or vacuum spillage and place in suitable container for disposal.
6.4 Reference to other sections:	See Section 8 for personal protective equipment. For disposal considerations see section 13.

SECTION 7: Handling and storage:

7.1 Precautions for safe handling

Technical measures (e.g. local and general ventilation):

Provide appropriate air extraction/extraction at the workplace or directly on the machine. Possibly aspiration in the workplace. see also section 7.

Handling:

Possibly: Vacuum the workplace. Handle in accordance with good industrial hygiene and safety practices. In case of possibility of skin / eye contact, specific hand / eye / body protection must be used. If the workplace-related limit values are exceeded and/or if large quantities are disposed of (leaks, spills, dust) the specified respirator must be used.

Measures to avoid contact:

No data available.

7.2 Conditions for safe storage, including any incompatibilities

Safe storage conditions:

Avoid the accumulation of electrostatic charges. If repair work is required on the production facility (e.g. welding works), the area in which the repairs are carried out must be free of the product, in the broadest sense of the word. Protect from heat and sun rays. Keep containers tightly closed in a dry, cool and well-ventilated place.

Safe packing materials:

No data available.

7.3 Specific end uses: Jobs; see chapter 1. No further information is available

SECTION 8: Exposure controls/personal protection

**8.1 Control parameters****Limit Values for Occupational Exposure**

No exposure limit has been defined for any component.

Biological Limit Values

No biological exposure limit values noted for the ingredient(s).

DNEL values

Critical component	Guy	Route of exposure	Warnings for Health	Remarks
Decamethylcyclopentasiloxane	Workers	inhalation	Local, long term; 24.2 mg/m ³	Repeated dose toxicity
	general population	inhalation	Systemic, long term; 17.3 mg/m ³	Repeated dose toxicity
	Workers	Eyes	local effect;	No danger identified
	Workers	inhalation	Systemic, long term; 97.3 mg/m ³	Repeated dose toxicity
	general population	inhalation	Local, long term; 4.3 mg/m ³	Repeated dose toxicity
	general population	Eyes	local effect;	No danger identified
	general population	Oral	Systemic, long term; 5 mg/kg	Repeated dose toxicity

octamethylcyclotetrasiloxane	general population	inhalation	Systemic, long term; 13 mg/m ³	Repeated dose toxicity
	Workers	inhalation	Systemic, long term; 73 mg/m ³	Repeated dose toxicity
	Workers	inhalation	Local, long term; 73 mg/m ³	Repeated dose toxicity
	general population	inhalation	Local, long term; 13 mg/m ³	Repeated dose toxicity
	Workers	Eyes	local effect;	No danger identified
	general population	Eyes	local effect;	No danger identified
	general population	Oral	Systemic, long term; 3.7mg/kg	Repeated dose toxicity

PNEC values

Comments: PNEC values

Critical component	Compartment environmental	PNEC values	Remarks
Decamethylcyclopentasiloxane	Predator	16 mg/kg	Oral
	Sediments (water from sea)	1.1 mg/kg	
	Ground	2.54mg/kg	
	Aquatic (fresh water)	1.2 µg/l	
	Sewage treatment plant	10 mg/l	



	Sediment (fresh water)	11 mg/kg	
	Aquatic (water navy)	0.12 µg/l	
octamethylcyclotetrasiloxane	Predator	41mg/kg	Oral
	Ground	0.54mg/kg	
	Sewage treatment plant	10 mg/l	
	Sediment (fresh water)	3mg/kg	
	Aquatic (fresh water)	1.5 µg/l	
	Sediments (water from sea)	0.3mg/kg	
	Aquatic (water navy)	0.15 µg/l	

8.2 Exposure controls Appropriate engineering controls:

Provide appropriate air extraction/extraction at the workplace or directly on the machine.
Possibly aspiration in the workplace. see also section 7.

Individual protection measures, such as personal protective equipment**Eye/face protection:**

Safety goggles with side shields In case of dust: goggles

Hand Protection:

Other information: Wear protective gloves made of the following materials: cloth, rubber, leather.
Additional information: Data about the weather of material penetration/strength is not valid for undissolved solids/powder.

Skin and body protection:

No special protective equipment is required.

Respiratory protection:

No special protective equipment is required. In case of dust: Dust mask with particle filter P2

Hygiene measures:

Do not eat, drink or smoke during use. Before breaks and at the end of work, wash your hands and/or face. To ensure optimal skin protection, use super fatty soaps and a protective skin cream. Wash contaminated clothing before wearing it again.

Environmental controls:

see section 6.

SECTION 9: physical and chemical properties**9.1 Information on basic physical and chemical properties****Appearance**

Form:	solid
Form:	Dust
Color:	White
Odor:	Odorless
Odor Threshold:	Not applicable
Fusion point:	Not applicable Decomposition
Boiling point:	Not applicable Decomposition

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Flammability:	No data available.
Upper/lower flammability or explosive limits	
Explosive limit - upper:	No data available. No
Explosive limit - lower:	data available. Not
Flash point:	applicable (solid)
Self-ignition temperature:	No data available.
Decomposition temperature: pH:	> 300°C 4 - 6 (40 g/l, 20 °C) 1: 1 in suspension
Viscosity	
Dynamic viscosity:	Not applicable (solid)
Kinematic viscosity:	Not applicable (solid) No
Scroll time:	data available.
Solubility	
Solubility in water:	> 1 mg/l
Solubility (other):	No data available. low
Dissolution rate:	rate of solubility Not
Partition coefficient (nocnol/ water):	applicable
Stability to dispersion:	Evaluation: low dispersion stability
Vapor pressure:	Not applicable
Relative density:	No data available. Approximate
Density:	2 g/cm ³ (20 °C)
Apparent density:	No data available. Not
Vapor density (air=1):	applicable
Characteristics of the particles	
Granule size:	See the note given in the next point.
Particle size distribution:	The structure of Evonik's synthetic amorphous silicon (SAS) can be described through the constituent particles, which are covalently bonded in aggregates. In light of the covalent bond there are no interfaces between the constituent particles, which have lost their physical identity and can therefore now be observed only as primary structures. Furthermore, the aggregates unite in an unstable way forming agglomerates. Agglomerates are the particles that make up the product if it is launched on the market. Dimensions of primary structures: Primary structures can only be measured with TEMs. Dimensions for Evonik's SAS are in the 2.5 range – 50 nm (d ₅₀ , on a numerical basis). As explained above, however, these do not occur as isolated particles. Avoid dust formation.
Dustiness:	
Specific surface area:	The specific physical and chemical data can be found in the product information.
Surface Charge/Zeta Potential:	No data available



Assessment:	Assessment: This substance/mixture contains nano-forms within the meaning of the REACH regulation (EC) 1907/2006. The product does not fall under the definition of "nano-material" and/or "engineered nano-material" according to the Cosmetic Products Regulation ((EC) 1223/2009) and the Food Information Regulation ((EC) 1169 /2011);
Form:	Shape: spheroidal;
crystallinity:	crystallinity: amorphous;
Surface treatment:	Properties of coated particles: hydrophobic; Surface Treatment / Coatings: Yes;

9.2 Other Information

Explosive properties:	not to be expected considering the structure
Minimum ignition temperature:	Approximate 460 °C (VDI 2263)
Peroxides:	Not applicable
Explosive Properties of Powder:	Not capable of causing powder explosions
Evaporation rate: Minimum ignition energy:	Not applicable > 10 kJ (VDI 2263)

SECTION 10: stability and reactivity

10.1 Reactivity:	No dangerous reactions known under normal conditions of use.
10.2 Chemical stability:	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions:	With proper storage and handling, no dangerous reactions are known.
10.4 Conditions to avoid:	At temperatures > 300 °C hydrophobia is lost.
10.5 Incompatible materials:	Not known.
10.6 Hazardous decomposition products:	No decomposition if stored and applied as directed. Stable under normal conditions. The product is not subject to any dangerous polymerization.

SECTION 11: toxicological information

General informations:	No silicosis or other product-specific respiratory tract diseases have been observed in personnel involved in its use.
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11.1 Information on the hazard classes defined in Regulation (EC) No. 1272/2008

Information on likely routes of exposure

Inhalation:	See below for information on their respective effects.
Skin Contact:	See below for information on their respective effects.
Eye contact:	See below for information on their respective effects.
Ingestion:	See below for information on their respective effects.

**Acute toxicity (list all possible routes of exposure)****Ingestion****Product:** LD 50 (Rat, Female, Male): > 5,000 mg/kg (OECD 401) (Analogy)**Components:**

silicone and siloxane, LD 50 (Rat, Female, Male) : > 5,000 mg/kg (Analogy)

dimethyl derivative,
reaction product with
silicon dioxide

Healthy LD 50 (Rat, Female, Male) : > 5,000 mg/kg

decamethylcyclopentasilox

octamethylcyclotetrasilox

no

Contacted with the skin**Product:** LD 50 (Rabbit): > 5,000 mg/kg (Analogy)**Components:**

silicone and siloxane, LD 50 (Rabbit) : > 5,000 mg/kg (Analogy)

dimethyl derivative, product
reaction with silicon
dioxideHealthy LD 50 (Rat, Female, Male) : > 2,000 mg/kg No
classification

decamethylcyclopentasilox

octamethylcyclotetrasilox

no

LD 50 (Rat, Female, Male) : > 5,000 mg/kg

Inhalation**Product:** LC 50 (Rat, Female, Male, 4 h): > 5.01 mg/l (OECD 436) Dust and mist,
(Analogy)**Components:**

silicone and siloxane, LC 50 (Rat, Female, Male, 4 h): > 5.01 mg/l Dust and mist, (Analogy)

dimethyl derivative, product
reaction with silicon
dioxide

Not applicable, Steam

Healthy LC 50 (Rat, Female, Male, 4 h): 8.67 mg/l Vapor Not
applicable, Dust and mist

decamethylcyclopentasilox

octamethylcyclotetrasilox

no

LC 50 (Rat, Female, Male, 4 h): 36 mg/l Vapor Dust and
mist, No data available.**Repeated dose toxicity****Product:** NOAEL (No observed adverse effect level) (Rat(male), Oral, 28 day, 7 days
a week): >= 1,000 mg/kg No adverse effects. (Analogy)**Components:**silicone and siloxane, NOAEL (No observed adverse effect level) (Rat(male), Oral, 28 day, 7 days
a week): >= 1,000 mg/kg No adverse effects. (Analogy)dimethyl derivative,
reaction product with
silicon dioxideDecamethylcyclopentasiloxane NOAEL (No observed adverse effect level) (Rat, Oral, 7 days per week):
1,000 mg/kg Subchronic toxicityNOAEL (No observed adverse effect level) (Rat, Inhalation(Vapour), 5 days/
week, 6 hours/days): 160 mg/l chronicNOAEL (No observed adverse effect level) (Rat, Dermal, 5 days/
week, 6 hours/days): 1,600 mg/kg Subacute Toxicity



octamethylcyclotetrasiloxane NOAEC (Rat(Female, Male), Inhalation(Vapour) , 5 days/ week, 6 hrs/days): 1.8 mg/l Subchronic Toxicity LOAEC (Rat(Female, Male), Inhalation(Vapour) , 5 days/ week, 6 hours/days): 8.5 mg/l chronic NOAEC (Rat(Female, Male), Inhalation(Vapour), 5 days/week, 6 hours/day): 0.36 mg/l Subacute toxicity

Skin Corrosion/Irritation**Product:**

OECD 404 (Rabbit): Not irritating; (Analogy)

Components:

silicone and siloxane,
dimethyl derivative, product
reaction with silicon
dioxide

OECD 404 (Rabbit): Not irritating , (Analogy)

Decamethylcyclopentasiloxane

OECD 404 (Rabbit): Non-irritating

octamethylcyclotetrasiloxane

OECD 404 (Rabbit): Non-irritating

Serious Eye Damage or Eye Irritation**Product:**

similar to OECD method (Rabbit): Non-irritating; (Analogy)

Components:

silicone and siloxane,
dimethyl derivative,
reaction product with
silicon dioxide

analogous to OECD method (Rabbit): Non irritant , (Analogy)

Decamethylcyclopentasiloxane

OECD 405 (Rabbit): Non-irritating

octamethylcyclotetrasiloxane

OECD 405 (Rabbit): Non-irritating

Respiratory or Skin Sensitisation**Product:**

Local lymph node test (LLNA), OECD 429 (Mouse): Not a skin sensitizer.
(Analogy)
Maximization Test, OECD 406 (Guinea pig): Not a skin sensitizer.
(Analogy)

Components:

silicone and siloxane,
dimethyl derivative,
reaction product with
silicon dioxide

Local lymph node test (LLNA), OECD 429 (Mouse): Not a skin sensitizer.
(Analogy)
Maximization Test, OECD 406 (Guinea pig): Not a skin sensitizer.
(Analogy)

Decamethylcyclopentasiloxane

Local lymph node test (LLNA), OECD 429 (Mouse): Not a sensitizer
for the skin.
Buehler Test (Rabbit): Not a skin sensitizer.

octamethylcyclotetrasiloxane

Magnussona i Kligmana., OECD 406 (Rabbit): Not a skin sensitizer.

sensitization test (Human): Not a skin sensitizer. Maximization Test,
OECD 406 (Guinea pig): Not a skin sensitizer.

Carcinogenicity**Product:**

No signs of carcinogenic action.

Components:

silicone and siloxane,
dimethyl derivative,
reaction product with
silicon dioxide

No signs of carcinogenic action.

Decamethylcyclopentasiloxane

No data available.

octamethylcyclotetrasiloxane

No data available.

**Germ cell mutagenicity**

no signs of mutagenic action

In vitro

Product: gene mutation test (OECD 471): negative; (Analogy); gene mutation test (OECD 490): negative; (Analogy); Chromosomal aberration (OECD 473): negative; (Analogy);

Components:

silicone and siloxane, dimethyl derivative, product reaction with silicon dioxide gene mutation test (OECD 471): negative (Analogy) gene mutation test (OECD 490): negative (Analogy) Chromosomal aberration (OECD 473): negative (Analogy)

Healthy

decamethylcyclotetrasilox

Ames test (OECD 471): negative
gene mutation test (OECD 476): negative
Chromosomal aberration (OECD 473): negative DANN
damage and/or repair: negative

octamethylcyclotetrasilox
no

Ames test (OECD 471): negative Chromosomal
aberration (OECD 473): negative gene mutation
test (OECD 476): negative

live

Product: Chromosomal aberration (OECD 475) Oral (Rat, male): negative; (Analogy)

Components:

silicone and siloxane, dimethyl derivative, reaction product with silicon dioxide Chromosomal aberration (OECD 475) Oral (Rat, male): negative (Analogy)

Healthy

decamethylcyclotetrasilox

Micronucleus test (OECD 474) inhalation (Rat, Female, Male): negative

octamethylcyclotetrasilox
no

unscheduled DNA synthesis test (OECD 486) inhalation (Rat, Female, Male):
negative

Micronucleus test (OECD 474) Inhalation - vapors (Rat): negative
Chromosomal aberration (OECD 478) Oral (Rat): negative
Chromosomal aberration (OECD 475) Inhalation - vapors (Rat, Female,
Male): negative

Reproductive toxicity

Product: no indication of reprotoxic characteristics

Components:

silicone and siloxane, dimethyl derivative, product reaction with silicon dioxide no indication of reprotoxic characteristics

Decamethylcyclotetrasiloxane

Not classified Inhalation - vapours

octamethylcyclotetrasiloxane

Suspected of damaging fertility or the unborn child. Suspected of damaging fertility

Specific Target Organ Toxicity - Single Exposure

Product: No warnings about critical features

Components:

silicone and siloxane, dimethyl derivative, reaction product with dioxide of silicon No warnings about critical features

Decamethylcyclotetrasiloxane

Not classified

octamethylcyclotetrasiloxane

No data available.

**Specific Target Organ Toxicity - Repeated Exposure****Product:** No warnings about critical features**Components:**silicone and siloxane, No warnings about critical features
dimethyl derivative,
reaction product with
silicon dioxide

Decamethylcyclopentasiloxane Not classified

octamethylcyclotetrasiloxane No data available.

Danger from Aspiration**Product:** Not applicable**Components:**silicone and siloxane, Not applicable
dimethyl derivative, product
reaction with silicon
dioxide

Decamethylcyclopentasiloxane Not classified

octamethylcyclotetrasiloxane Not classified

11.2 Information on other hazards**Endocrine disrupting properties****Product:** The substance/mixture does not contain any components considered to have endocrine disrupting properties within the meaning of Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.;**Components:**silicone and siloxane, No data available.
dimethyl derivative,
reaction product with
silicon dioxide

Decamethylcyclopentasiloxane No data available.

octamethylcyclotetrasiloxane No data available.

Other dangers**Product:** Based on available data, the classification criteria are not met.;**SECTION 12: ecological information****12.1 Toxicity:****Acute hazards to the aquatic environment:****Fish****Product:** LC 50 (Brachydanio rerio, 96 h): > 10,000 mg/l The information on the toxic effect refers to the nominal concentration. (Analogy)

**Components:**

silicone and siloxane,
dimethyl derivative, product
reaction with silicon
dioxide

LC 50 (Brachydanio rerio, 96 h): > 10,000 mg/l The information on the toxic effect refers to the nominal concentration. (Analogy)

Healthy
decamethylcyclopentasilos
octamethylcyclotetrasilox
no

LC 50 (Leuciscus idus, 96 h): > 3,000 mg/l
LC 0 (Leuciscus idus, 96 h): 200 mg/l
LC 50 (Oncorhynchus mykiss, 96 h): > 22 µgr/l
NOEC (Oncorhynchus mykiss, 96 h): 22 µgr/l

aquatic invertebrates**Product:**

EC50 (Daphnia magna, 24 h): > 1,000 mg/l The information on the toxic effect refers to the nominal concentration. (Analogy)

Components:

silicone and siloxane,
dimethyl derivative, product
reaction with silicon
dioxide

EC50 (Daphnia magna, 24 h): > 1,000 mg/l The information on the toxic effect refers to the nominal concentration. (Analogy)

Healthy
decamethylcyclopentasilos
octamethylcyclotetrasilox
no

No data available.

NOEC (Daphnia magna, 48 h): 15 µgr/l
EC50 (Daphnia magna, 48 h): > 15 µgr/l

Toxicity to aquatic plants**Product:**

EC50 (Desmodesmus subspicatus (green alga), 72 h): > 173 mg/l (OECD 201) (Analogy)

Components:

silicone and siloxane,
dimethyl derivative,
reaction product with
silicon dioxide

EC50 (Desmodesmus subspicatus (green alga), 72 h): > 173 mg/l (OECD 201) (Analogy)

No data available.

Decamethylcyclopentasiloxane
octamethylcyclotetrasiloxane

EC50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 22 µgr/l (US-EPA-method)
EC50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 22 µgr/l (US-EPA-method)

Toxicity to micro-organisms**Product:**

EC50 (municipal activated sludge, 3 h): > 2,500 mg/l (OECD 209) (Analogy)

Components:

silicone and siloxane,
dimethyl derivative, product
reaction with silicon
dioxide

EC50 (municipal activated sludge, 3 h): > 2,500 mg/l (OECD 209) (Analogy)

No data available.

Decamethylcyclopentasiloxane
octamethylcyclotetrasiloxane

No data available.

Chronic hazards to the aquatic environment:**Fish****Product:**

No data available.

CECCHI GUSTAVO & C.

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Components:

silicone and siloxane, dimethyl derivative, reaction product with silicon dioxide	No data available.
Healthy	No data available.
decamethylcyclopentasiloxane	
octamethylcyclotetrasiloxane	NOEC (Oncorhynchus mykiss, 93 d): 4.4 µgr/l (US-EPA-method)

aquatic invertebrates

Product: No data available.

Components:

silicone and siloxane, dimethyl derivative, product reaction with silicon dioxide	No data available.
Healthy	No data available.
decamethylcyclopentasiloxane	
octamethylcyclotetrasiloxane	NOEC (Daphnia magna, 21 d): 15 µgr/l (EPA OTS 797.1330) Lowest concentration at which an effect can be detected (Daphnia magna, 21 d): 15 µgr/l (EPA OTS 797.1330) EC50 (Daphnia magna, 21 d): > 15 µgr/l (EPA OTS 797.1330)

Toxicity to aquatic plants

Product: No data available.

Components:

silicone and siloxane, dimethyl derivative, reaction product with silicon dioxide	No data available.
	No data available.
Decamethylcyclopentasiloxane	
octamethylcyclotetrasiloxane	NOEC (Algae (Pseudokirchneriella subcapitata), 96 h): < 22 µgr/l (US-EPA-method)

Toxicity to micro-organisms

Product: EC50 (municipal activated sludge, 3 h): > 2,500 mg/l (OECD 209) (Analogy)

Components:

silicone and siloxane, dimethyl derivative, product reaction with silicon dioxide	EC50 (municipal activated sludge, 3 h): > 2,500 mg/l (OECD 209) (Analogy)
	No data available.
Decamethylcyclopentasiloxane	
octamethylcyclotetrasiloxane	No data available.

12.2 Persistence and degradability

Biodegradation

Product: Methods for assessing persistence and biodegradability for this product, similarly to inorganic substances, are not applicable.

Components:

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Via M. Coppino 253 - 55049 Viareggio (LU) ITALY
tel. +39 0584 383694 fax +39 0584 395182
www.cecchi.it - info@cecchi.it



ADDENSANTE (THICKENER) N°2 - SAFETY DATA SHEET - February 2022 - rev.1/22

silicone and siloxane,
dimethyl derivative, product
reaction with silicon
dioxide

Methods for the assessment of persistence and biodegradability for this product, similarly to inorganic substances, are not applicable.

Decamethylcyclopentasilox 0 % (28 d, OECD 310) The product is not biodegradable., aerobic ano

octamethylcyclotetrasiloxane 3.7 % (28 d, OECD 310) The product is not biodegradable., aerobic or

BOD/COD ratio

Product: No data available.

Components:

silicone and siloxane,
dimethyl derivative, product
reaction with silicon
dioxide

No data available.

Decamethylcyclopentasiloxane

No data available.

octamethylcyclotetrasiloxane

No data available.

12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: Not to be expected.

Components:

silicone and siloxane,
dimethyl derivative, product
reaction with silicon
dioxide

Not to be expected.

Decamethylcyclopentasiloxane

No data available.

octamethylcyclotetrasiloxane

No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: Log Kow: Not applicable

Components:

silicone and siloxane,
dimethyl derivative,
reaction product with
silicon dioxide

Log Kow: Not applicable

Decamethylcyclopentasiloxane

No data available.

octamethylcyclotetrasiloxane

Log Kow: 6.488 25.1 °C (OECD 123)

12.4 Mobility in soil:

Product Noteworthy mobility in soil is not to be expected.

Components:

Silicone and siloxane, dimethyl derivative, reaction product with silicon dioxide

Decamethylcyclopentasiloxane No data available.

CECCHI GUSTAVO & C.

Via M. Coppino 253 - 55049 Viareggio (LU) ITALY
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or
octamethylcyclotetrasiloxane No data available.

12.5 Results of PBT and vPvB assessment:

Product This substance/mixture contains components considered to be both persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB).

Components:

Silicone and siloxane, dimethyl Unclassified vPvB substance, derivative, reaction product Unclassified PBT substance with silicon dioxide
Decamethylcyclopentasiloxane vPvB: very persistent substance and very bioaccumulative. PBT: persistent substance, bioaccumulative and toxic.
octamethylcyclotetrasiloxane vPvB: very persistent substance and very bioaccumulative. PBTs: persistent substance, bioaccumulative and toxic.

12.6 Endocrine-disrupting properties:

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

Components:

Silicone and siloxane, dimethyl No data available. derivative, reaction product with silicon dioxide
Decamethylcyclopentasiloxane No data available. or
octamethylcyclotetrasiloxane No data available.

12.7 Other adverse effects:

Other dangers

Product: Harmful to aquatic life with long lasting effects. The environmentally harmful characteristics of this product have been calculated according to regulation (EC) n° 1272/2008. See Section 2, "Possible Hazards".

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General informations: No data available.

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Methods of disposal:

For proper disposal, comply with all local and national regulations. A waste code number can not be decided for this product. European Waste Index, as only the type of use by the consumer allows for an assignment. The waste code number must be determined in accordance with the European Waste Index (EU Waste Index Decision 2000/532/EC) in agreement with the disposer / manufacturer / authorities.

Contaminated Containers:

Deliver the washed packing material to a facility recycling room. Other countries: Observe national regulations.

SECTION 14: transport information

14.1 UN/ID No.

Not regulated as dangerous goods

14.2 UN proper shipping name

Not regulated as dangerous goods

14.3 Transport hazard classes Not regulated as dangerous goods

14.4 Packing group

Not regulated as dangerous goods

14.5 Environmental hazards

Not regulated as dangerous goods

14.6 Special precautions for user Not applicable

14.7 Shipping in bulk in accordance with IMO acts Not applicable to the product in its supplied form.

SECTION 15: Regulatory information

15.1 Safety, health and environmental laws and regulations specific for the substance or mixture:

EU regulations

Regulation (EC) no. 1005/2009 on substances that deplete the ozone layer, Annex I, Controlled substances:None present or none present in regulated quantities.

Regulation (EC) no. 1005/2009 on substances that deplete the ozone layer, Annex II, New substances:None present or none present in regulated quantities.

REGULATION 1907/2006 (EC) (REACH), ANNEX XIV LIST OF SUBSTANCES SUBJECT TO AUTHORIZATION:None present or none present in regulated quantities.

Regulation (EC) no. 2019/1021/EC which provides for prohibitions and restrictions for persistent organic pollutants (POPs), modified:None present or none present in regulated quantities.

EU. Directive 2010/75/EU on industrial emissions (integrated prevention and reduction



of pollution), Annex II, L334/17:None present or none present in regulated quantities.

Regulation (EU) no. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 and subsequent amendments:None present or none present in regulated quantities.

Regulation (EU) no. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 and subsequent amendments:None present or none present in regulated quantities.

Regulation (EU) no. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 and subsequent amendments:None present or none present in regulated quantities.

Regulation (EU) no. 649/2012 concerning the export and import of dangerous chemicals, Annex V and subsequent amendments:None present or none present in regulated quantities.

List of EU candidates. REACH of substances of very high concern for authorization (Substances of Very High Concern, SVHC):

Chemical name	NUMBER CAS	Concentration	Information additional
Decamethylcyclopentasiloxane	541-02-6	> 0.1 - <1.0%	Very persistent it's a lot bioaccumulator (vPvB)PBT: substance persistent, bioaccumulative and toxic.

Regulation (EC) no. 1907/2006 Annex XVII - Substances subject to restrictions regarding placing on the market and use:

Chemical name	CAS NUMBER	Item no
Decamethylcyclopentasiloxane	541-02-6	70
octamethylcyclotetrasiloxane	556-67-2	70

Regulation (EC) no. 1907/2006 Annex XVII - Substances subject to restrictions regarding placing on the market and use:

Chemical name	CAS NUMBER	Item no
Decamethylcyclopentasiloxane	541-02-6	70
octamethylcyclotetrasiloxane	556-67-2	70

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



regulated quantities.

Directive 92/85/EEC on the implementation of measures to encourage improvements in the safety and health at work of pregnant workers, workers who have recently given birth or are breastfeeding:

Chemical name	NUMBER CAS	Concentration
octamethylcyclotetrasiloxane	556-67-2	> 0.01 - <0.1%

Directive 92/85/EEC on the implementation of measures to encourage improvements in the safety and health at work of pregnant workers, workers who have recently given birth or are breastfeeding:

Chemical name	NUMBER CAS	Concentration
octamethylcyclotetrasiloxane	556-67-2	0 - <0.1%

EU. Directive 2012/18/EU (SEVESO III) on major accidents involving certain dangerous substances and subsequent amendments:Not applicable

REGULATION (EC) No 166/2006 on the establishment of a European Pollutant Release and Transfer Register, ANNEX II: Polluting substances:No one present or no one present in regulated quantities.

Directive 98/24/EC on the protection of workers against the risks associated with agents chimici at work:

Chemical name	NUMBER CAS	Concentration
octamethylcyclotetrasiloxane	556-67-2	> 0.01 - <0.1%

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

Chemical name	NUMBER CAS	Concentration
octamethylcyclotetrasiloxane	556-67-2	0 - <0.1%

15.2 Chemical safety assessment:

No exposure and risk assessment is required for this product, as it is not classified with respect to health and environmental risks.

International regulations

Montreal Protocol

Not applicable

Stockholm Convention

Not applicable

Rotterdam Convention

Not applicable

Kyoto Protocol

Not applicable

SECTION 16: other information

Abbreviations and acronyms:



ADR -European Agreement on the International Road Carriage of Dangerous Products;**ADN** - European Convention for the Carriage of Dangerous Goods by Inland Waterways;**AGW** - occupational exposure limit;**ASTM** -American Society for Testing and Materials;**AwsV** - Ordinance on facilities for handling substances that are hazardous to water;**BSB** - Biochemical oxygen demand;**cc** -closed vessel;**CAS** -CAS Number Assignment Company;**CESIUM** -European Committee for Organic Surfactants and their Intermediate Products;**CSB** -Chemical oxygen demand;**DMEL** -Derived no effect level;**DNELs** - Derived Zero Effect Level;**EbC50** -median concentration in terms of reduction of growth; **EC** -effective concentration;**EINECS** -European Inventory of Chemical Substances;**IT** - European standards;**ErC50** -median concentration in terms of reduction of growth rate;**GGVSEB** - Hazardous Substances Ordinance: Road, Rail and River Barge;**GGVSee** -Hazardous Substances Ordinance: Sea;**GLP** -Good laboratory practice;**GMO** -Genetically modified organism;**IATA** -International Flight and Transportation Association;**ICAO** - International Civil Aviation Organization;**IMDG** -International Code of Dangerous Marine Products;**ISO** - International Organization for Standardization;**LD/LC** -lethal dose/concentration;**LOAEL** - Minimum dosage of an administered chemical with which damage was still observed in an animal experiment.;**LOEL** -Minimum dosage of an administered chemical with which effects were still observed in an animal experiment.;**M-Factor** -multiplying factor;**NOAEL** -Maximum dosage of a substance, which even with continuous intake does not leave any recognizable and measurable damage.; **NOEC** -No Observed Effect Concentration;**NOEL** -No observed effect dose;**oc** - open vessel;**OECD** -Organization for Economic Collaboration and Development; **OEL** -Limit values for workplace air;**PBT** -Persistent, bioaccumulative, toxic;**NECP** -The concentration first dictates in the relevant environmental medium, with which there is no longer an effect on the environment.;**REACH** -REACH registration;**RID** - Regulations for the international transport of dangerous goods by rail;**SVHC** -Substances especially worrying;**TA** -Technical instructions;**TRGS** -Technical rules for dangerous products;**vPvB** -

very persistent, very bioaccumulative;**WGK** -Water contamination class

Main references No data available.
bibliographies and data sources:

Directions for training: No data available.

Review information The changes made on the previous version have been highlighted in the margin. This version replaces all previous versions.

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