

Product name: AEROSIL® R 202

SAFETY DATA SHEET

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567

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

1.1 Product identifier

Product name:
AEROSIL® R 202

Additional identification

Chemical name: Silicones and siloxanes, dimethyl-, reaction products with silica
Chemical formula: -
INDEX No. -
CAS-No. 67762-90-7
EC No. -
UK-REACH UK-01-2509930461-7-0035 (TPR)
Registration No.:
REACH Registration 01-2119379499-16-0000 (TPR)
No.:

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

Identified uses: Coating agent
Sealant
Reinforcing agent.
Cosmetics

Uses advised against: Not determined.

1.3 Details of the supplier of the safety data sheet

Company Name : Evonik Operations GmbH
Rellinghauser Str. 1-11
45128 Essen
Germany

Telephone : +49 6181 59 4787

E-mail : sds-hu@evonik.com

1.4 Emergency telephone number:

24-Hour Health : +49 7623 919191
Emergency

National Poison Information Service (NPIS)
England, Scotland and Wales: NHS: 111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product name: AEROSIL® R 202

The product has been classified according to the legislation in force.

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567
Environmental Hazards

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

Hazard Statement(s):	H412: Harmful to aquatic life with long lasting effects.
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Precautionary Statements

Prevention:	P273: Avoid release to the environment.
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Disposal:	P501: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.
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2.3 Other hazards
PBT/vPvB data

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients
3.1 Substances

Chemical name:	Silicones and siloxanes, dimethyl-, reaction products with silica
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INDEX No.:	
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CAS-No.:	67762-90-7
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EC No.:	
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UK-REACH Registration No.:	UK-01-2509930461-7-0035 (TPR)
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REACH Registration No.:	01-2119379499-16-0000 (TPR)
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Chemical name	Concentration	CAS-No.	EC No.	UK-REACH Registration No.	REACH Registration No.	M-Factor:	Notes
Silicones and siloxanes, dimethyl-, reaction products with silica		67762-90-7		UK-01-2509930461-7	01-2119379499-16	No data available.	
octamethyl cyclotetrasiloxane	0.01 - <0.1%	556-67-2	209-136-7	-	01-2119529238-36	Aquatic Toxicity (Chronic): 10	##

* 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).

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This substance is listed as SVHC.

Classification

Chemical name	Classification	Notes
Silicones and siloxanes, dimethyl-, reaction products with silica	Classification: None known. Supplemental label information: None known.	Not applicable
octamethylcyclotetrasiloxane	Classification: Flam. Liq.: 3: H226; Repr.: 2: H361f; Aquatic Chronic: 1: H410; Supplemental label information: None known.	None.

SECTION 4: First aid measures
4.1 Description of first aid measures

Inhalation:	In case product dust is released: Possible discomfort: cough, sneezing Move to fresh air.
Skin Contact:	Wash off with plenty of water and soap.
Eye contact:	Possible discomfort is due to foreign substance effect. Rinse thoroughly with plenty of water keeping eyelid open. In case of persistent discomfort: Consult an ophthalmologist.
Ingestion:	Clean mouth with water and drink afterwards plenty of water. After absorbing large amounts of substance / In case of discomfort: Supply with medical care.
Personal Protection for First-aid Responders:	No data available.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms:	None known.
Hazards:	None known.

4.3 Indication of immediate medical attention and special treatment needed

Treatment:	No hazards which require special first aid measures.
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SECTION 5: Firefighting measures
5.1 Extinguishing media

Suitable extinguishing media: Water spray, foam, CO2, dry powder. Adapt fire-extinguishing measures to surroundings

Unsuitable extinguishing media: Do not use full-force water jet in order to avoid dispersal and spread of the fire.

5.2 Special hazards arising from the substance or mixture:

May be released in case of fire: carbon monoxide, carbon dioxide, organic products of decomposition.

5.3 Advice for firefighters

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Special fire fighting procedures:	Water used to extinguish fire should not enter drainage systems, soil or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for fire-fighters:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:	Use personal protective equipment. Avoid dust formation.
6.1.1 For non-emergency personnel:	No data available.
6.1.2 For emergency responders:	No data available.
6.2 Environmental Precautions:	Do not allow entrance in sewage water, soil stretches of water, groundwater, drainage systems.
6.3 Methods and material for containment and cleaning up:	Sweep up or vacuum up spillage and collect in suitable container for disposal.
6.4 Reference to other sections:	For personal protection see section 8. For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures:	Ensure suitable suction/aeration at the work place and with operational machinery. Local ventilation if necessary.
Local/Total ventilation:	No data available.
Safe handling advice:	If necessary: Local ventilation. Handle in accordance with good industrial hygiene and safety practice. If there is the possibility of skin/eye contact, the indicated hand/eye/body protection should be used. If workplace exposure limits are exceeded and/or larger amounts are released (leakage, spilling, dust) the indicated respiratory protection should be used.
Contact avoidance measures:	No data available.

7.2 Conditions for safe storage, including any incompatibilities

Safe storage conditions:	Take precautionary measures against static discharges. When repairs of the production system are to be made (e.g. welding work), the section to be repaired must be essentially free of product. Protect from heat and exposure to direct sunlight. Keep containers tightly closed in a dry, cool and well-ventilated place.
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Safe packaging materials:	No data available.
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7.3 Specific end use(s):	Applications; see Section 1. No further information available
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SECTION 8: Exposure controls/personal protection
8.1 Control Parameters
Occupational Exposure Limits

Chemical name	Type	Form of exposure	Exposure Limit Values		Source
Silicon dioxide, chemically prepared (CAS 112945-52-5 resp. 7631-86-9)	TWA	Inhalable dust.		6 mg/m ³	EH40 WEL (12 2011)
	TWA	Respirable dust.		2.4 mg/m ³	EH40 WEL (12 2011)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

DNEL-Values

Critical component	Type	Route of Exposure	Health Warnings	Remarks
octamethylcyclotetrasiloxane	General population	Eyes	Local effect;	No hazard identified
	General population	Inhalation	Local, long-term; 13 mg/m ³	Repeated dose toxicity
	Workers	Inhalation	Systemic, long-term; 73 mg/m ³	Repeated dose toxicity
	General population	Inhalation	Systemic, long-term; 13 mg/m ³	Repeated dose toxicity
	General population	Oral	Systemic, long-term; 3.7 mg/kg	Repeated dose toxicity
	Workers	Inhalation	Local, long-term; 73 mg/m ³	Repeated dose toxicity
	Workers	Eyes	Local effect;	No hazard identified

PNEC-Values

Critical component	Environmental compartment	PNEC-Values	Remarks
octamethylcyclotetrasiloxane	Sediment (freshwater)	3 mg/kg	
	Aquatic (freshwater)	1.5 µg/l	
	Soil	0.84 mg/kg	Soil
	Aquatic (marine water)	0.15 µg/l	
	Sewage treatment plant	10 mg/l	
	Predator	41 mg/kg	Oral
	Sediment (marine water)	0.3 mg/kg	

8.2 Exposure controls
Appropriate Engineering Controls:

Ensure suitable suction/aeration at the work place and with operational machinery. Local ventilation if necessary. see also section 7.

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

Safety glasses with side shields If dust occurs: basket-shaped glasses

Hand Protection:

Additional Information: Wear protective gloves made of the following materials: material, rubber, leather.
 Additional Information: The data about break through time/strength of material is not valid for undissolved solids/dust.

Skin and Body Protection:

No special protective equipment required.

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Respiratory Protection:	No special protective equipment required. If dust occurs: Dust mask with P2 particle filter
Hygiene measures:	When using, do not eat, drink or smoke. Wash face and/or hands before break and end of work. To ensure ideal skin protection: use super fatted soaps and skin cream for skin care. Wash contaminated clothing before reuse.
Environmental Controls:	see section 6.

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

Physical state:	solid
Form:	Powder
Color:	White
Odor:	Odorless
Odor Threshold:	Not applicable
Melting Point:	Not applicable Decomposition
Boiling Point:	Not applicable Decomposition
Flammability:	No data available.
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point:	Not applicable (solid)
Auto-ignition temperature:	Approximate 460 °C Method: VDI 2263
Decomposition Temperature:	> 300 °C
pH:	4 - 6 at 20 °C Concentration: 40 g/l 1: 1 in suspension

Viscosity

Dynamic viscosity:	Not applicable (solid)
Kinematic viscosity:	Not applicable (solid)

Solubility(ies)

Solubility in Water:	> 1 mg/l
Partition coefficient (n-octanol/water):	Not applicable
Vapor pressure:	Not applicable
Relative density:	No data available.
Density:	Approximate 2 g/cm ³ at 20 °C
Vapor density (air=1):	Not applicable

9.2 Other information

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Explosive properties:	Not to be expected in view of the structure
Peroxides:	Not applicable
Dust explosion properties:	Not dust explosive
Evaporation Rate:	Not applicable
Minimum ignition energy:	> 10 kJ Method: VDI 2263
Molecular weight:	No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity:	No dangerous reaction known under conditions of normal use.
10.2 Chemical Stability:	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions:	No hazardous reactions are known if properly handled and stored.
10.4 Conditions to avoid:	Hydrophobic properties disappear at temperatures > 300°C
10.5 Incompatible Materials:	None known.
10.6 Hazardous Decomposition Products:	No decomposition if stored and applied as directed. Stable under normal conditions. Product will not undergo hazardous polymerization.

SECTION 11: Toxicological information

General information: Silicosis or other product specific illnesses of the respiratory tract were not observed in association with the product.

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
Information on likely routes of exposure

Inhalation:	Information on effects are given below.
Skin Contact:	Information on effects are given below.
Eye contact:	Information on effects are given below.
Ingestion:	Information on effects are given below.

Acute toxicity (list all possible routes of exposure)
Oral

Product:	LD 50, Rat, Female, Male, > 5,000 mg/kg, OECD 401, (analogy)
Components:	
Silicones and siloxanes, dimethyl-, reaction products with silica	LD 50, Rat, Female, Male, > 5,000 mg/kg, OECD 401, (analogy)
octamethylcyclotetrasiloxane	LD 50, Rat, Male, > 5,000 mg/kg, OECD 401

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Dermal

Product:	LD 50, Rabbit, > 5,000 mg/kg, (analogy)
Components:	
Silicones and siloxanes, dimethyl-, reaction products with silica	LD 50, Rabbit, > 5,000 mg/kg, (analogy)
octamethylcyclotetrasiloxane	LD 50, Rat, Female, Male, > 5,000 mg/kg, OECD 402

Inhalation

Product:	LC 50, Rat, Female, Male, 4 h, > 5.01 mg/l, OECD 436, Dust and mist, (analogy)
Components:	
Silicones and siloxanes, dimethyl-, reaction products with silica	LC 50, Rat, Female, Male, 4 h, > 5.01 mg/l, Dust and mist, OECD 436, (analogy)
octamethylcyclotetrasiloxane	Vapour, Not toxic after single exposure, Not applicable LC 50, Rat, Female, Male, 4 h, 36 mg/l, OECD 403, Vapour Not toxic after single exposure, Dust and mist, No data available.

Repeated dose toxicity

Product:	NOAEL Rat, Male, Oral, 28 day, 7 days a week, \geq 1,000 mg/kg, No negative effects. (analogy)
Components:	
Silicones and siloxanes, dimethyl-, reaction products with silica	NOAEL Rat, Male, Oral, 28 day, 7 days a week, \geq 1,000 mg/kg, No negative effects. (analogy)
octamethylcyclotetrasiloxane	NOAEC, Rat, Female, Male, Inhalation, Vapour, 5 days/weeks, 6 hours/day, 1.8 mg/l, Subchronic toxicity LOAEC, Rat, Female, Male, Inhalation, Vapour, 5 days/weeks, 6 hours/day, 8.5 mg/l, chronic NOAEC, Rat, Female, Male, Inhalation, Vapour, 5 days/weeks, 6 hours/day, 0.36 mg/l, Subacute toxicity

Skin Corrosion/Irritation

Product:	OECD 404, (Rabbit), Not irritating, (analogy)
Components:	
Silicones and siloxanes, dimethyl-, reaction products with silica	Not irritating, OECD 404, Rabbit, (analogy)
octamethylcyclotetrasiloxane	Not irritating, OECD 404, Rabbit

Serious Eye Damage/Eye Irritation

Product:	analogous OECD method, Rabbit, Not irritating, (analogy)
Components:	
Silicones and siloxanes, dimethyl-, reaction products with silica	Not irritating, analogous OECD method, Rabbit, (analogy)
octamethylcyclotetrasiloxane	Not irritating, OECD 405, Rabbit

Respiratory or Skin Sensitization

Product:	Local Lymph Node Assay (LLNA), OECD 429, Mouse, Not a skin sensitizer., (analogy) Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer., (analogy)
Components:	

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Silicones and siloxanes, dimethyl-, reaction products with silica	Local Lymph Node Assay (LLNA), OECD 429, Mouse, Not a skin sensitizer., (analogy) Maximization Test, OECD 406, Guinea Pig, Not a skin sensitizer., (analogy)
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 evidence that cancer may be caused.

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica No evidence that cancer may be caused.

octamethylcyclotetrasiloxane No data available.

products with silica

octamethylcyclotetrasiloxane

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Germ Cell Mutagenicity

no evidence of mutagenic effects

In vitro

Product: gene mutation test, OECD 471: , negative, (analogy)
gene mutation test, OECD 490: , negative, (analogy)
Chromosomal aberration, OECD 473: , negative, (analogy)

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica gene mutation test, OECD 471: , negative, (analogy)

gene mutation test, OECD 490: , negative, (analogy)

Chromosomal aberration, OECD 473: , negative, (analogy)

octamethylcyclotetrasiloxane Ames test, OECD 471: , negative

Chromosomal aberration, OECD 473: , negative

gene mutation test, OECD 476: , negative

In vivo

Product: Chromosomal aberration, OECD 475, Oral, Rat, Male, negative, (analogy)

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica Chromosomal aberration, OECD 475, Oral, Rat, Male, negative, (analogy)

octamethylcyclotetrasiloxane Micronucleus test, OECD 474, Inhalation - vapor, Rat, negative

Chromosomal aberration, OECD 478, Oral, Rat, negative

Chromosomal aberration, OECD 475, Inhalation - vapor, Rat, Female, Male, negative

Reproductive toxicity

Product: no evidence of reproductiontoxic properties

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica no evidence of reproductiontoxic properties

products with silica

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

ane damaging fertility.

Specific Target Organ Toxicity - Single Exposure

Product: no evidence for hazardous properties

Product name: AEROSIL® R 202

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica octamethylcyclotetrasiloxane no evidence for hazardous properties
 No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: no evidence for hazardous properties

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica octamethylcyclotetrasiloxane no evidence for hazardous properties
 No data available.

Aspiration Hazard

Product: Not applicable

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica octamethylcyclotetrasiloxane Not applicable
 Not classified

11.2 Information on other hazards
Other information

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 OECD 203, The reported toxic effects relate to the nominal concentration. (analogy)

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica octamethylcyclotetrasiloxane LC 50, (Brachydanio rerio), 96 h, > 10,000 mg/l OECD 203, The reported toxic effects relate to the nominal concentration. (analogy)
 LC 50, Oncorhynchus mykiss, 96 h, > 22 µg/l US-EPA-method
 NOEC, Oncorhynchus mykiss, 96 h, 22 µg/l US-EPA-method

Aquatic Invertebrates

Product: EC 50, Daphnia magna, 24 h, > 1,000 mg/l OECD 202, The reported toxic effects relate to the nominal concentration. (analogy)

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica octamethylcyclotetrasiloxane EC 50, Daphnia magna, 24 h, > 1,000 mg/l OECD 202, The reported toxic effects relate to the nominal concentration. (analogy)
 NOEC, Daphnia magna, 48 h, 15 µg/l US-EPA-method
 EC 50, Daphnia magna, 48 h, > 15 µg/l US-EPA-method

Toxicity to Aquatic Plants

Product name: AEROSIL® R 202

Product: EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 173 mg/l (OECD 201) (analogy)

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica EC 50 (Desmodesmus subspicatus (green algae), 72 h): > 173 mg/l (OECD 201) (analogy)

octamethylcyclotetrasiloxane EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 22 µg/l (US-EPA-method)

EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 22 µg/l (US-EPA-method)

Toxicity to microorganisms

Product: EC 50, local activated sludge, 3 h, > 2,500 mg/l, OECD 209, (analogy)

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica EC 50, local activated sludge, 3 h, > 2,500 mg/l, OECD 209, (analogy)

octamethylcyclotetrasiloxane No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica No data available.

octamethylcyclotetrasiloxane NOEC, Oncorhynchus mykiss, 93 d, 4.4 µg/l, US-EPA-method

Aquatic Invertebrates

Product: No data available.

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica No data available.

octamethylcyclotetrasiloxane NOEC, Daphnia magna, 21 d, 15 µg/l, EPA OTS 797.1330
 Lowest Observed Effect Concentration, Daphnia magna, 21 d, 15 µg/l, EPA OTS 797.1330

EC 50, Daphnia magna, 21 d, > 15 µg/l, EPA OTS 797.1330

Toxicity to Aquatic Plants

Product: No data available.

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica No data available.

octamethylcyclotetrasiloxane NOEC (Algae (Pseudokirchneriella subcapitata), 96 h): < 22 µg/l (US-EPA-method)

Toxicity to microorganisms

Product: EC 50, local activated sludge, 3 h, > 2,500 mg/l, OECD 209, (analogy)

Components:

Silicones and siloxanes, dimethyl-, reaction products with silica EC 50, local activated sludge, 3 h, > 2,500 mg/l, OECD 209, (analogy)

octamethylcyclotetrasiloxane No data available.

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12.2 Persistence and Degradability

Biodegradation

Product: The methods designed to assess persistence and biodegradability are not applicable to this product, in analogy to inorganic substances.

Components:
 Silicones and siloxanes, dimethyl-, reaction products with silica octamethylcyclotetrasiloxane
 The methods designed to assess persistence and biodegradability are not applicable to this product, in analogy to inorganic substances.
 3.7 %, 28 d, OECD 310, The product is not biodegradable., aerobic

12.3 Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: Not to be expected.

Components:
 Silicones and siloxanes, dimethyl-, reaction products with silica octamethylcyclotetrasiloxane
 Not to be expected.
 No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: Not applicable

Components:
 Silicones and siloxanes, dimethyl-, reaction products with silica octamethylcyclotetrasiloxane
 , Not applicable
 6.488, 25.1 °C, OECD 123

12.4 Mobility in soil:

Product No remarkable mobility in soil is to be expected.

Components:
 Silicones and siloxanes, dimethyl-, reaction products with silica octamethylcyclotetrasiloxane
 No remarkable mobility in soil is to be expected.
 No data available.

12.5 Results of PBT and vPvB assessment:

Product This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Components:
 Silicones and siloxanes, dimethyl-, reaction products with silica octamethylcyclotetrasiloxane
 Non-classified vPvB substance, Non-classified PBT substance
 PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.

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12.6 Other adverse effects:

Other hazards

Product: Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

General information: No data available.

Disposal methods: Review all local, state and federal regulations concerning health and pollution for appropriate disposal procedures. No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer. The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

Contaminated Packaging: Offer rinsed packaging material to local recycling facilities. Other countries: observe the national regulations.

SECTION 14: Transport information

14.1 UN/ID No.

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

EU Regulations

EU. REACH Annex XIV, Substances Subject to Authorization: None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC): None

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present or none present in regulated quantities (on the basis of current knowledge of the product composition).

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

Substances: None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex II, New Substances:

None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

UK EXP1: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I.

2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

UK EXP2: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I.

2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

UK EXP3: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I.

2019/720 and S.I. 2020/1567, as amended: None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

UK BAN: UK. GB PIC List, Regulation (EU) 649/2012 as amended by EU Exit Regulations S.I. 2019/720

and S.I. 2020/1567, as amended: None present or none present in regulated quantities (on the basis of current knowledge of the product composition).

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I: Not applicable

15.2 Chemical safety assessment:

No exposure or risk assessment is required for this product since it is not classified for health or 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:

EH40 WEL:

UK. EH40 Workplace Exposure Limits (WELs), as amended

EH40 WEL / TWA:

Time Weighted Average (TWA):

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR -

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Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; EIGA - European Industrial Gases Association; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

Notes:

Not applicable	Not applicable
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Key literature references and sources for data: No data available.

Training information: No data available.

Revision Information Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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