

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

Supersedes date 18-Aug-2024

Revision date 07-Mar-2026

Revision Number 5

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

1.1. Product identifier

Product Code(s) 45372

Safety data sheet number 45372

Product Name DOWSIL CB 3046 FLUID

Synonyms DOW CORNING CB-3046 FLUID

Pure substance/mixture Mixture

Contains REACTION MASS OF 1,1,1,5,5,5- HEXAMETHYL-3- PHENYL-3- ((TRIMETHYLSILYL)OXY)T RISILOXANE AND 1,1,1,7,7,7- HEXAMETHYL-3,5- DIPHENYL-3,5- BIS((TRIMETHYLSILYL)OX Y)TETRASILOXANE AND 1,1,1,9,9,9- HEXAMETHYL-3,5,7- TRIPHENYL-3,5,7- TRIS((TRIMETHYLSILYL)OX Y)PENTASILOXANE

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

Recommended use Formulation or re-packing: Formulation & (re)packing of substances and mixtures.
Cosmetics
Personal care
Perfumes, fragrances
Professional use
Consumer use

1.3. Details of the supplier of the safety data sheet

Supplier

Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
GBR

For further information, please contact

E-mail address SDS.EMEA@univarsolutions.com

Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

1.4. Emergency telephone number

Emergency Telephone SGS - +32 (0)3 575 55 55 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Acute toxicity - Inhalation (Dusts/Mists)

Category 4 - (H332)

2.2. Label elements

Contains REACTION MASS OF 1,1,1,5,5,5- HEXAMETHYL-3- PHENYL-3- ((TRIMETHYLSILYL)OXY)T RISILOXANE AND 1,1,1,7,7,7- HEXAMETHYL-3,5- DIPHENYL-3,5- BIS[(TRIMETHYLSILYL)OX Y]TETRASILOXANE AND 1,1,1,9,9,9- HEXAMETHYL-3,5,7- TRIPHENYL-3,5,7- TRIS((TRIMETHYLSILYL)OX Y)PENTASILOXANE



Signal word

Warning

Hazard statements

H332 - Harmful if inhaled

Precautionary statements

P261 - Avoid breathing mist/vapours/spray

P271 - Use only outdoors or in a well-ventilated area

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P312 - Call a POISON CENTER or doctor if you feel unwell

Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

Additional information

This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
REACTION MASS OF 1,1,1,5,5,5- HEXAMETHYL-3- PHENYL-3- ((TRIMETHYLSILYL)OXY)T RISILOXANE AND 1,1,1,7,7,7- HEXAMETHYL-3,5- DIPHENYL-3,5-	>= 21.0 - <= 32.0 %	939-487-8	-	Acute Tox. 2 (H330)	-	-	-

BIS[(TRIMETHYLSILOXY)TETRASILOXANE AND 1,1,1,9,9,9-HEXAMETHYL-3,5,7-TRIPHENYL-3,5,7-TRIS((TRIMETHYLSILOXY)PENTASILOXANE 70131-69-0							
DODECAMETHYLCYCLOHEXASILOXANE 540-97-6	>= 0.14 - <= 0.27 %	208-762-8	-	Not Classified	-	-	-
OCTAMETHYLCYCLOTETRASILOXANE 556-67-2	<= 0.013 %	209-136-7 (014-018-00-1)	-	Flam. Liq. 3 (H226) Aquatic Chronic 1 (H410) Repr. 2 (H361f)	-	-	10

Full text of H- and EUH-phrases: see section 16

Chemical name	CAS No	SVHC candidates
DODECAMETHYLCYCLOHEXASILOXANE	540-97-6	X

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	First aid personnel should wear appropriate protective equipment during any rescue. Use personal protection recommended in Section 8.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get medical attention if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.
Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if symptoms occur.
Ingestion	Rinse mouth thoroughly with water. Do NOT induce vomiting. Get medical attention if symptoms occur.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms

Inhalation	Harmful if inhaled.
Eyes	May cause temporary eye irritation.

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	Maintain adequate ventilation and oxygenation of the patient. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Skin contact may aggravate preexisting dermatitis.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Dry chemical, CO2, alcohol-resistant foam or water spray.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	When heated and in case of fire, toxic vapours/gases may be formed. Exposure to combustion products may be a hazard to health. Fire burns more vigorously than would be expected.
Hazardous combustion products	Carbon oxides. Silicon oxides. Formaldehyde. Benzene.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. Remove all sources of ignition. Follow precautions for safe handling described in this safety data sheet.
Other information	Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	See Section 12 for additional Ecological Information.
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6.3. Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See section 13 for more information.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. Do not swallow. Keep container closed when not in use. Avoid spilling. Avoid release to the environment. Handle in accordance with good industrial hygiene and safety practice. Empty containers retain product residue and can be hazardous.

General hygiene considerations Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep in properly labelled containers. Store away from the following materials. Strong oxidising agents.

Packaging materials Unsuitable container/equipment material. None known.

7.3. Specific end use(s)

Specific use(s)
See section 1 for more information.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
REACTION MASS OF 1,1,1,5,5,5- HEXAMETHYL-3- PHENYL-3- ((TRIMETHYLSILYL)OXY)T RISILOXANE AND 1,1,1,7,7,7- HEXAMETHYL-3,5- DIPHENYL-3,5- BIS[(TRIMETHYLSILYL)OX Y]TETRASILOXANE AND 1,1,1,9,9,9- HEXAMETHYL-3,5,7- TRIPHENYL-3,5,7- TRIS((TRIMETHYLSILYL)OX Y)PENTASILOXANE 70131-69-0		10 mg/kg bw/day [4] [6]	71 mg/m ³ [4] [6]
DODECAMETHYLCYCLOHEXASILO XANE 540-97-6			11 mg/m ³ [4] [6] 1.22 mg/m ³ [5] [6] 6.1 mg/m ³ [5] [7]
OCTAMETHYLCYCLOTETRASILOXA			73 mg/m ³ [4] [6]

Chemical name	Oral	Dermal	Inhalation
NE 556-67-2			73 mg/m ³ [5] [6]

[4]	Systemic health effects.
[5]	Local health effects.
[6]	Long term.
[7]	Short term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
REACTION MASS OF 1,1,1,5,5,5- HEXAMETHYL-3- PHENYL-3- ((TRIMETHYLSILYL)OXY)T RISILOXANE AND 1,1,1,7,7,7- HEXAMETHYL-3,5- DIPHENYL-3,5- BIS[(TRIMETHYLSILYL)OX Y]TETRASILOXANE AND 1,1,1,9,9,9- HEXAMETHYL-3,5,7- TRIPHENYL-3,5,7- TRIS((TRIMETHYLSILYL)OX Y)PENTASILOXANE 70131-69-0	5 mg/kg bw/day [4] [6]		17.4 mg/m ³ [4] [6]
DODECAMETHYLCYCLOHEXASILO XANE 540-97-6	1.7 mg/kg bw/day [4] [6] 1.7 mg/kg bw/day [4] [7]		2.7 mg/m ³ [4] [6] 0.3 mg/m ³ [5] [6] 1.5 mg/m ³ [5] [7]
OCTAMETHYLCYCLOTETRASILOXA NE 556-67-2	3.7 mg/kg bw/day [4] [6]		13 mg/m ³ [4] [6] 13 mg/m ³ [5] [6]

[4]	Systemic health effects.
[5]	Local health effects.
[6]	Long term.
[7]	Short term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
OCTAMETHYLCYCLOTE TRASILOXANE 556-67-2	0.0015 mg/L		0.00015 mg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
REACTION MASS OF 1,1,1,5,5,5- HEXAMETHYL-3- PHENYL-3- ((TRIMETHYLSILYL)OXY) T RISILOXANE AND 1,1,1,7,7,7- HEXAMETHYL-3,5-	13.5 mg/kg dry weight (d.w.)	1.35 mg/kg dry weight (d.w.)			222 mg/kg food

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
DIPHENYL-3,5-BIS((TRIMETHYLSILYL)OX Y)TETRAILOXANE AND 1,1,1,9,9,9-HEXAMETHYL-3,5,7-TRIPHENYL-3,5,7-TRIS((TRIMETHYLSILYL)OX Y)PENTASIOXANE 70131-69-0					
DODECAMETHYLCYCLOHEXASIOXANE 540-97-6	13 mg/kg sediment dw	1.3 mg/kg sediment dw	1 mg/L		66.7 mg/kg food
OCTAMETHYLCYCLOTRIASIOXANE 556-67-2	3 mg/kg sediment dw	0.3 mg/kg sediment dw	10 mg/L	0.54 mg/kg soil dw	41 mg/kg food

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

Eye/face protection Wear safety glasses with side shields (or goggles). Use eye protection according to EN ISO 16321-1.

Hand protection Wear suitable gloves. Gloves must conform to standard EN 374.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
	Wear protective butyl rubber gloves	> 0.35 mm	> 60 minutes
	Rubber (natural, latex)	> 0.35 mm	> 60 minutes
	Wear protective Neoprene™ gloves	> 0.35 mm	> 60 minutes
	Nitrile/butadiene rubber ("nitrile" or "NBR").	> 0.35 mm	> 60 minutes
	Ethyl vinyl alcohol laminate ("EVAL")	> 0.35 mm	> 60 minutes
	Polyvinyl chloride (PVC)	> 0.35 mm	> 60 minutes

Skin and body protection Wear appropriate clothing to prevent reasonably probable skin contact.

Respiratory protection Use appropriate respiratory protection.
Recommended filter type: Organic gases and vapours filter conforming to EN 14387. Type AP2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid
Appearance Liquid
Colour Colourless
Odour Odourless.

Odour threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point		Not determined.
Initial boiling point and boiling range	> 35 °C	@ 760 mmHg.
Flammability		No information available.
Flammability Limit in Air		No information available.
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point	124 °C	Closed cup.
Autoignition temperature		No information available.
Decomposition temperature		No information available.
pH		Not applicable. Insoluble in water.
pH (as aqueous solution)		No information available.
Kinematic viscosity		No information available.
Dynamic viscosity	366 mPa s	
Water solubility	Insoluble in water	
Solubility(ies)		No information available.
Partition coefficient		Not determined.
Vapour pressure		No information available.
Relative density	0.981	
Bulk density		No information available
Liquid Density	0.981 g/cm3	
Relative vapour density		No information available.
Particle characteristics		Not applicable.
Particle Size	No information available	
Particle Size Distribution	No information available	
Explosive properties	Not considered to be explosive.	
Oxidising properties	Does not meet the criteria for classification as oxidising	

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No known effects under normal use conditions.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions The following materials may react with the product:. Strong oxidising agents.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Silicon oxides. Formaldehyde. Benzene.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Information on likely routes of exposure****Product Information**

Inhalation	Harmful if inhaled.
Eye contact	May cause temporary eye irritation.
Skin contact	Brief contact is essentially non-irritating to skin. Dryness and/or cracking.
Ingestion	May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Coughing and/ or wheezing.

Acute toxicity**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

Oral LD50 Oral LD50 > 5000 mg/kg
Dermal LD50 Dermal LD50 > 2000 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
REACTION MASS OF 1,1,1,5,5,5- HEXAMETHYL-3-PHENYL-3-((TRIMETHYLSILYL)OXY)T RISOXANE AND 1,1,1,7,7,7- HEXAMETHYL-3,5-DIPHENYL-3,5-BIS[(TRIMETHYLSILYL)OXY]TETRASILOXANE AND 1,1,1,9,9,9- HEXAMETHYL-3,5,7-TRIPHENYL-3,5,7-TRIS((TRIMETHYLSILYL)OXY)PENTASILOXANE	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	=0.467 mg/l (Rat) 4h
DODECAMETHYLCYCLOHEXASILOXANE	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
OCTAMETHYLCYCLOTETRASILOXANE	> 4800 mg/kg (Rat)	> 2400 mg/kg (Rat)	= 36 mg/L (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation Brief contact is essentially non-irritating to skin. Dryness and/or cracking.

REACTION MASS OF 1,1,1,5,5,5- HEXAMETHYL-3- PHENYL-3- ((TRIMETHYLSILYL)OXY)T RISOXANE AND 1,1,1,7,7,7-

HEXAMETHYL-3,5- DIPHENYL-3,5- BIS[(TRIMETHYLSILYL)OX Y]TETRASILOXANE AND 1,1,1,9,9,9- HEXAMETHYL-3,5,7-TRIPHENYL-3,5,7- TRIS((TRIMETHYLSILYL)OX Y)PENTASILOXANE (70131-69-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					non-irritant

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal		4 hours	non-irritant

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Brief contact is essentially non-irritating to skin.

Serious eye damage/eye irritation May cause temporary eye irritation.

REACTION MASS OF 1,1,1,5,5,5- HEXAMETHYL-3- PHENYL-3- ((TRIMETHYLSILYL)OXY)T RISILOXANE AND 1,1,1,7,7,7- HEXAMETHYL-3,5- DIPHENYL-3,5- BIS[(TRIMETHYLSILYL)OX Y]TETRASILOXANE AND 1,1,1,9,9,9- HEXAMETHYL-3,5,7-TRIPHENYL-3,5,7- TRIS((TRIMETHYLSILYL)OX Y)PENTASILOXANE (70131-69-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					May cause slight eye irritation Corneal injury is unlikely

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	eye			non-irritant

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					non-irritant

Respiratory or skin sensitisation Not a skin sensitiser.

Method	Species	Exposure route	Results
	Guinea pig	Dermal	Not a skin sensitiser

REACTION MASS OF 1,1,1,5,5,5- HEXAMETHYL-3- PHENYL-3- ((TRIMETHYLSILYL)OXY)T RISILOXANE AND 1,1,1,7,7,7- HEXAMETHYL-3,5- DIPHENYL-3,5- BIS[(TRIMETHYLSILYL)OX Y]TETRASILOXANE AND 1,1,1,9,9,9- HEXAMETHYL-3,5,7-TRIPHENYL-3,5,7- TRIS((TRIMETHYLSILYL)OX Y)PENTASILOXANE (70131-69-0)

Method	Species	Exposure route	Results
	Guinea pig	Dermal	Not a skin sensitiser

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitisation	Guinea pig	Dermal	Not a skin sensitiser

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

Method	Species	Exposure route	Results
	Guinea pig	Dermal	Not a skin sensitiser

Germ cell mutagenicity No information available.

Component Information

REACTION MASS OF 1,1,1,5,5,5- HEXAMETHYL-3- PHENYL-3- ((TRIMETHYLSILYL)OXY)T RISOLOXANE AND 1,1,1,7,7,7- HEXAMETHYL-3,5- DIPHENYL-3,5- BIS[(TRIMETHYLSILYL)OX Y]TETRASILOXANE AND 1,1,1,9,9,9- HEXAMETHYL-3,5,7- TRIPHENYL-3,5,7- TRIS((TRIMETHYLSILYL)OX Y)PENTASILOXANE (70131-69-0)

Method	Species	Results
	in vitro	Negative

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

Method	Species	Results
	in vitro	Negative
		Negative Did not show mutagenic effects in animal experiments

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

Method	Species	Results
	in vitro	Negative
		Negative Did not show mutagenic effects in animal experiments

Carcinogenicity

No information available.

Component Information

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

Method	Species	Results
		Results from a 2 year repeated vapour inhalation exposure study to rats of octamethylcyclotetrasiloxane (D4) indicate effects (benign uterine adenomas) in the uterus of female animals. This finding occurred at the highest exposure dose (700 ppm) only. Studies to date have not demonstrated if these effects occur through pathways that are relevant to humans. Repeated exposure in rats to D4 resulted in protoporphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknown.

Reproductive toxicity

No information available.

Chemical name	United Kingdom
OCTAMETHYLCYCLOTETRASILOXANE	Repr. 2

REACTION MASS OF 1,1,1,5,5,5- HEXAMETHYL-3- PHENYL-3- ((TRIMETHYLSILYL)OXY)T RISOLOXANE AND 1,1,1,7,7,7- HEXAMETHYL-3,5- DIPHENYL-3,5- BIS[(TRIMETHYLSILYL)OX Y]TETRASILOXANE AND 1,1,1,9,9,9- HEXAMETHYL-3,5,7- TRIPHENYL-3,5,7- TRIS((TRIMETHYLSILYL)OX Y)PENTASILOXANE (70131-69-0)

Method	Species	Results
		In animal studies, did not interfere with reproduction

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

Method	Species	Results
		In animal studies, did not interfere with reproduction

OCTAMETHYLCYCLOTETRASIOXANE (556-67-2)

Method	Species	Results
		In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals. In animal studies, has been shown to interfere with fertility.

STOT - single exposure

No information available.

REACTION MASS OF 1,1,1,5,5,5- HEXAMETHYL-3- PHENYL-3- ((TRIMETHYLSILYL)OXY)T RISOXANE AND 1,1,1,7,7,7- HEXAMETHYL-3,5- DIPHENYL-3,5- BIS[(TRIMETHYLSILYL)OX Y]TETRASILOXANE AND 1,1,1,9,9,9- HEXAMETHYL-3,5,7- TRIPHENYL-3,5,7- TRIS((TRIMETHYLSILYL)OX Y)PENTASILOXANE (70131-69-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Evaluation of available data suggests that this material is not an STOT-SE toxicant

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Evaluation of available data suggests that this material is not an STOT-SE toxicant

OCTAMETHYLCYCLOTETRASIOXANE (556-67-2)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Evaluation of available data suggests that this material is not an STOT-SE toxicant

STOT - repeated exposure

No information available.

Component Information

REACTION MASS OF 1,1,1,5,5,5- HEXAMETHYL-3- PHENYL-3- ((TRIMETHYLSILYL)OXY)T RISOXANE AND 1,1,1,7,7,7- HEXAMETHYL-3,5- DIPHENYL-3,5- BIS[(TRIMETHYLSILYL)OX Y]TETRASILOXANE AND 1,1,1,9,9,9- HEXAMETHYL-3,5,7- TRIPHENYL-3,5,7- TRIS((TRIMETHYLSILYL)OX Y)PENTASILOXANE (70131-69-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Based on available data, repeated exposures are not anticipated to cause additional significant adverse effects.

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
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					Based on available data, repeated exposures are not anticipated to cause significant adverse effects
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OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					In animals, effects have been reported on the following organs: Kidney Liver respiratory tract Female reproductive organs

Aspiration hazard

Based on available data the classification criteria are not met.

Other adverse effects

No information available.

SECTION 12: Ecological information**12.1. Toxicity****Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

REACTION MASS OF 1,1,1,5,5,5- HEXAMETHYL-3- PHENYL-3- ((TRIMETHYLSILYL)OXY)T RASILOXANE AND 1,1,1,7,7,7- HEXAMETHYL-3,5- DIPHENYL-3,5- BIS((TRIMETHYLSILYL)OX Y)TETRASILOXANE AND 1,1,1,9,9,9- HEXAMETHYL-3,5,7- TRIPHENYL-3,5,7- TRIS((TRIMETHYLSILYL)OX Y)PENTASILOXANE (70131-69-0)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
Acute toxicity	Brachydanio rerio	LC50	> 500 mg/L	96 hours	
	Lumbricus terrestris	LC50	> 1000 mg/kg	28 days	

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
Acute toxicity	Pseudokirchneriella subcapitata	ErC50	> 0.002 mg/L	72 days	No toxicity up to the limit of solubility
Acute toxicity	Pseudokirchneriella subcapitata	NOEC	>= 0.002 mg/L	72 hours	No toxicity up to the limit of solubility
Chronic toxicity	Daphnia magna	NOEC	0.0046 mg/L	21 days	No toxicity up to the limit of solubility

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
Acute toxicity	Oncorhynchus mykiss (rainbow trout)	LC50	> 0.022 mg/L	96 hours	
Acute toxicity	Cyprinodon variegatus	LC50	> 0.0063 mg/L	14 days	
Acute toxicity	Mysidopsis bahia	EC50	> 0.0091 mg/L	96 hours	
Acute toxicity	Daphnia magna	EC50	> 0.015 mg/L	48 hours	
Acute toxicity	Pseudokirchneriella subcapitata	ErC50	> 0.022 mg/L	96 hours	
Acute toxicity	Pseudokirchneriella	EC10	>= 0.022 mg/L	96 hours	

Chronic aquatic toxicity	subcapitata Oncorhynchus mykiss (rainbow trout)	NOEC	≥ 0.0044 mg/L	93 days	
Chronic aquatic toxicity	Daphnia magna	NOEC	0.0079 mg/L	21 days	
					Based on testing of comparable products: The estimated maximum aqueous concentration of Octamethyl Cyclotetrasiloxane (D4) from migration to water from the product as supplied is below the D4 established no-effect threshold (< 0.0079 mg/L) for aquatic organisms.

12.2. Persistence and degradability

Persistence and degradability No information available.

REACTION MASS OF 1,1,1,5,5,5- HEXAMETHYL-3- PHENYL-3- ((TRIMETHYLSILYL)OXY)T RISILOXANE AND 1,1,1,7,7,7- HEXAMETHYL-3,5- DIPHENYL-3,5- BIS((TRIMETHYLSILYL)OX Y)TETRASILOXANE AND 1,1,1,9,9,9- HEXAMETHYL-3,5,7- TRIPHENYL-3,5,7- TRIS((TRIMETHYLSILYL)OX Y)PENTASILOXANE (70131-69-0)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	Biodegradation 2.2 %	Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO ₂ Evolution Test (TG 301 B)	28 days	Biodegradation 4.5 %	Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

Method	Exposure time	Value	Results
OECD 310	28 days	Biodegradation 3.7%	Expected to biodegrade very slowly

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
REACTION MASS OF 1,1,1,5,5,5- HEXAMETHYL-3- PHENYL-3- ((TRIMETHYLSILYL)OXY)T RISILOXANE AND 1,1,1,7,7,7- HEXAMETHYL-3,5- DIPHENYL-3,5- BIS[(TRIMETHYLSILYL)OXY]TETRASILOXANE AND 1,1,1,9,9,9- HEXAMETHYL-3,5,7- TRIPHENYL-3,5,7- TRIS((TRIMETHYLSILYL)OXY)PENTASILOXANE	9
DODECAMETHYLCYCLOHEXASILOXANE	8.87
OCTAMETHYLCYCLOTETRASILOXANE	6.49

12.4. Mobility in soil

Mobility in soil Insoluble.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment This mixture contains substances considered to be very persistent and very bioaccumulating (vPvB).

Chemical name	PBT and vPvB assessment
DODECAMETHYLCYCLOHEXASILOXANE	vPvB substance
OCTAMETHYLCYCLOTETRASILOXANE	PBT substance vPvB substance

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Do not dump into any sewers, on the ground, or into any body of water. This product, when being disposed of in its unused and uncontaminated state should be treated as a hazardous waste according to EC Directive 2008/98/EC, provided it fulfils the criteria listed in Annex III of this directive. Any disposal practices must be in compliance with all national and provincial laws and any municipal or local by-laws governing hazardous waste. For used, contaminated and residual materials additional evaluations may be required.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information

IATA

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	None

IMDG

14.1 UN number or ID number	Not regulated
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14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	None

ADR

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	None

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Authorisations and/or restrictions on use:**

This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

This product does not contain substances subject to authorisation (UK REACH - Annex XIV).

Product restricted per REACH Annex XVII: 3, 70, 75

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
DODECAMETHYLCYCLOHEXASILOXANE - 540-97-6	Use restricted. See item 70.	-
OCTAMETHYLCYCLOTETRAISILOXANE - 556-67-2	Use restricted. See item 70. 75	-

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Named dangerous substances per COMAH Regulations 2015 (as amended)

Not applicable

The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended)

Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)

Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)

Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECI	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:

TSCA	- United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL	- Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS	- European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS	- Japan Existing and New Chemical Substances
IECSC	- China Inventory of Existing Chemical Substances
KECL	- Korean Existing and Evaluated Chemical Substances
PICCS	- Philippines Inventory of Chemicals and Chemical Substances
AIIC	- Australian Inventory of Industrial Chemicals
NZIoC	- New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report No Chemical Safety Assessment has been carried out for this substance/mixture

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Legend**

SVHC: Substances of Very High Concern for Authorisation:
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers		
Revision Note SDS sections updated 1 4 6 7 8 9 11 12 13 15 16			

Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method

Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
U.S. Environmental Protection Agency ChemView Database
European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
Environmental Protection Agency
Acute Exposure Guideline Level(s) (AEGl(s))
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
U.S. Environmental Protection Agency High Production Volume Chemicals
Food Research Journal
Hazardous Substance Database
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
U.S. National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
Organisation for Economic Co-operation and Development Screening Information Data Set
World Health Organization

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**This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended)
Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet