

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

Supersedes date 09-Mar-2020

Revision date 29-Jul-2024

Revision Number 4

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

1.1. Product identifier

Product Code(s) 12710

Safety data sheet number 12710

Product Name DOWSIL CE-8170 AF MICROEMULSION

Pure substance/mixture Mixture

Contains DIMETHYL, METHYL(AMINOETHYLAMINOISOBUTYL) SILOXANE, TRIMETHYLSILOXY-TERMINATED; ALCOHOLS C12-14 SECONDARY ETHOXYLATED; ALCOHOLS, C12-14, ETHOXYLATED; ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED

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 3 - (H331)
Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 1 - (H318)
Chronic aquatic toxicity	Category 3 - (H412)

2.2. Label elements

Contains DIMETHYL, METHYL(AMINOETHYLAMINOISOBUTYL) SILOXANE, TRIMETHYLSILOXY-TERMINATED; ALCOHOLS C12-14 SECONDARY ETHOXYLATED; ALCOHOLS, C12-14, ETHOXYLATED; ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED



Signal word

Danger

Hazard statements

H315 - Causes skin irritation

H318 - Causes serious eye damage

H331 - Toxic if inhaled

H412 - Harmful to aquatic life with long lasting effects

Precautionary statements

P261 - Avoid breathing vapours/spray

P264 - Wash skin thoroughly after handling

P273 - Avoid release to the environment

P280 - Wear protective gloves and eye/face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P310 - Immediately call a POISON CENTER or doctor

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

Unknown aquatic toxicity

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

Additional information

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

2.3. Other hazards

May be harmful if swallowed.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	EC No (EU)	UK REACH registration	Classification according	Specific	M-Factor	M-Factor
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		Index No)	number	to GB CLP (SI 2020/1567 as amended)	concentration limit (SCL)		(long-term)
DIMETHYL, METHYL(AMINOETHYLAMINOISOBUTYL) SILOXANE, TRIMETHYLSILOXY-TERMINATED 106842-44-8	>= 16.0 - <= 21.0 %	-	-	Acute Tox. 2 (H330) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)	-	-	-
ALCOHOLS C12-14 SECONDARY ETHOXYLATED 84133-50-6	>= 1.0 - <= 6.0 %	-	-	Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	-	-	-
GLYCERINE 56-81-5	>= 1.0 - <= 4.0 %	200-289-5	-	Not Classified	-	-	-
ALCOHOLS, C12-14, ETHOXYLATED 68439-50-9	>= 3.0 - <= 5.0 %	-	-	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	-	-	-
ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED 78330-21-9	>= 1.0 - <= 3.0 %	-	-	Acute Tox. 4 (H302) Eye Dam. 1 (H318) Aquatic Chronic 3 (H412)	-	-	-
DODECAMETHYLCYCLOHEXASILOXANE 540-97-6	>= 0.17 - <= 0.26 %	208-762-8	-	Not Classified	-	-	-
DECAMETHYLCYCLOPENTASILOXANE 541-02-6	>= 0.11 - <= 0.18 %	208-764-9	01-3283125615-4-XXX X	Not Classified	-	-	-

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

Chemical name	CAS No	SVHC candidates
DODECAMETHYLCYCLOHEXASILOXANE	540-97-6	X
DECAMETHYLCYCLOPENTASILOXANE	541-02-6	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. Ensure that eyewash stations and safety showers are close to the workstation location.
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

Inhalation	Fatal if inhaled.
Eyes	Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated. Causes eye burns.
Dermal	Causes skin irritation. Redness. Dryness and/or cracking.

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

Note to doctors	Treat symptomatically. Maintain adequate ventilation and oxygenation of the patient. Chemical eye burns may require extended irrigation. Chemical burns must be treated promptly by a physician. Treat any burns as thermal burns, after decontamination.
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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.
Hazardous combustion products	Carbon oxides. Silicon oxides. Nitrogen oxides (NOx). Acrolein.

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.
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 Prevent further leakage or spillage if safe to do so.

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.

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 locked up. Store away from the following materials. Strong oxidising agents. Explosives. Gases.

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**

Chemical name	United Kingdom
GLYCERINE 56-81-5	TWA: 10 mg/m ³ STEL: 30 mg/m ³

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
GLYCERINE 56-81-5			56 mg/m ³ [5] [6]
ALCOHOLS, C12-14, ETHOXYLATED 68439-50-9		2080 mg/kg bw/day [4] [6]	294 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]
DECAMETHYLCYCLOPENTASILOXA NE 541-02-6			97.3 mg/m ³ [4] [6] 24.2 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
GLYCERINE 56-81-5	229 mg/kg bw/day [4] [6]		33 mg/m ³ [5] [6]
ALCOHOLS, C12-14, ETHOXYLATED 68439-50-9	25 mg/kg bw/day [4] [6]		87 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]
DECAMETHYLCYCLOPENTASILOXA NE 541-02-6	5 mg/kg bw/day [4] [6]		17.3 mg/m ³ [4] [6] 4.3 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
GLYCERINE 56-81-5	0.885 mg/L	8.85 mg/L	0.0885 mg/L		
ALCOHOLS, C12-14, ETHOXYLATED 68439-50-9	0.0745 mg/L	0.004 mg/L	0.0075 mg/L	0.0004 mg/L	
DECAMETHYLCYCLOPE NTASILOXANE 541-02-6	>0.0012 mg/l		>0.00012 mg/l		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
GLYCERINE 56-81-5	3.3 mg/kg sediment dw	0.33 mg/kg sediment dw	1000 mg/L	0.141 mg/kg soil dw	
ALCOHOLS, C12-14, ETHOXYLATED 68439-50-9	66.67 mg/kg sediment dw	6.66 mg/kg sediment dw	10 g/L	1 mg/kg soil dw	
DODECAMETHYLCYCLOHEXASILOXANE 540-97-6	13 mg/kg sediment dw	1.3 mg/kg sediment dw			66.7 mg/kg food
DECAMETHYLCYCLOPENTASILOXANE 541-02-6	11 mg/kg sediment dw	1.1 mg/kg sediment dw	10 mg/L	2.54 mg/kg soil dw	16 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 166.

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	> 120 minutes
	Rubber (natural, latex)	> 0.35 mm	> 120 minutes
	Wear protective Neoprene™ gloves	> 0.35 mm	> 120 minutes
	Wear protective nitrile rubber gloves	> 0.35 mm	> 120 minutes
	Ethyl vinyl alcohol laminate ("EVAL")	> 0.35 mm	> 120 minutes
	Polyvinyl chloride (PVC)	> 0.35 mm	> 120 minutes
Avoid contact with:	Polyvinyl alcohol (PVA)		

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

Respiratory protection Use appropriate respiratory protection.
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 Translucent
Odour Slight.
Odour threshold No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point		No information available.
Initial boiling point and boiling range	100 °C	
Flammability		No information available.
Flammability Limit in Air		No information available.
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point	> 100 °C	Closed cup.
Autoignition temperature		No information available.
Decomposition temperature		No information available.
pH	5.7 - 7.8	
pH (as aqueous solution)		No information available.
Kinematic viscosity		No information available.
Dynamic viscosity	100 mPa s	
Water solubility		Not determined.
Solubility(ies)		No information available.
Partition coefficient		Not determined.
Vapour pressure		No information available.
Relative density	1	
Bulk density		No information available
Liquid Density	No information available	No information available
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 Excessive heat.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Silicon oxides. Nitrogen oxides (NOx). Acrolein.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation	Fatal if inhaled.
Eye contact	Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated. Causes eye burns.
Skin contact	Causes skin irritation. Redness. Dryness and/or cracking.
Ingestion	May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity

Numerical measures of toxicity

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

> 5000 mg/kg > 2000 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
DIMETHYL, METHYL(AMINOETHYLAMINO ISOBUTYL) SILOXANE,TRIMETHYLSILOX Y-TERMINATED	> 8000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 0.204 mg/l (Rat) 4 h Aerosol
ALCOHOLS C12-14 SECONDARY ETHOXYLATED	> 3000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
GLYCERINE	27,200 mg/kg (Rat)	56750 mg/kg (Guinea pig)	> 2.75 mg/l (Rat) 4 h
ALCOHOLS, C12-14, ETHOXYLATED	> 500 - 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 1.6 mg/l (Rat) 4h
ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED	500 mg/kg	-	-
DODECAMETHYLCYCLOHEX ASILOXANE	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
DECAMETHYLCYCLOPENTAS ILOXANE	> 24134 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 8.67 mg/L (Rat) 4 h

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

Skin corrosion/irritation Causes skin irritation. Redness. Dryness and/or cracking.

DIMETHYL, METHYL(AMINOETHYLAMINOISOBUTYL) SILOXANE,TRIMETHYLSILOXY-TERMINATED (106842-44-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Causes skin irritation Redness

ALCOHOLS C12-14 SECONDARY ETHOXYLATED (84133-50-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Causes skin irritation Redness Dryness and/or cracking Effects may be slow to heal.

GLYCERINE (56-81-5)

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

ALCOHOLS, C12-14, ETHOXYLATED (68439-50-9)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					May cause slight irritation Redness

ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED (78330-21-9)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					May cause slight irritation Redness

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Non-irritating during normal use

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Non-irritating during normal use

Serious eye damage/eye irritation Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated. Causes eye burns.

DIMETHYL, METHYL(AMINOETHYLAMINOISOBUTYL) SILOXANE,TRIMETHYLSILOXY-TERMINATED (106842-44-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Causes serious eye irritation Effects may be slow to heal.

ALCOHOLS C12-14 SECONDARY ETHOXYLATED (84133-50-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Causes serious eye damage

GLYCERINE (56-81-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					May cause temporary eye irritation

ALCOHOLS, C12-14, ETHOXYLATED (68439-50-9)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Causes serious eye damage May cause

					permanent damage if eye is not immediately irrigated. Causes eye burns
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ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED (78330-21-9)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Causes serious eye damage May cause permanent damage if eye is not immediately irrigated. Causes eye burns

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					May cause temporary eye irritation

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

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

Respiratory or skin sensitisation No information available.

DIMETHYL, METHYL(AMINOETHYLAMINOISOBUTYL) SILOXANE,TRIMETHYLSILOXY-TERMINATED (106842-44-8)

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

ALCOHOLS, C12-14, ETHOXYLATED (68439-50-9)

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

ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED (78330-21-9)

Method	Species	Exposure route	Results
	Human evidence	Dermal	Not a skin sensitiser

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

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

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

Method	Species	Exposure route	Results
	Mouse	Dermal	Not a skin sensitiser

Germ cell mutagenicity No information available.

Component Information

DIMETHYL, METHYL(AMINOETHYLAMINOISOBUTYL) SILOXANE,TRIMETHYLSILOXY-TERMINATED (106842-44-8)

Method	Species	Results
	in vitro	Negative

ALCOHOLS C12-14 SECONDARY ETHOXYLATED (84133-50-6)

Method	Species	Results
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	in vitro	Negative
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GLYCERINE (56-81-5)

Method	Species	Results
	in vitro	Negative

ALCOHOLS, C12-14, ETHOXYLATED (68439-50-9)

Method	Species	Results
	in vitro	Negative

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

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

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

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

Carcinogenicity

No information available.

Component Information

GLYCERINE (56-81-5)

Method	Species	Results
		Did not cause cancer in laboratory animals.

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

Method	Species	Results
		Did not cause cancer in laboratory animals.

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

Method	Species	Results
		Results from a 2 year repeated vapour inhalation exposure study to rats of decamethylcyclopentasiloxane (D5) indicate effects (uterine endometrial tumors) in female animals. This finding occurred at the highest exposure dose (160 ppm) only. Studies to date have not demonstrated if this effect occurs through a pathway that is relevant to humans.

Reproductive toxicity

No information available.

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

Method	Species	Results
		This product does not contain any

		known or suspected reproductive hazards
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DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

Method	Species	Results
		This product does not contain any known or suspected reproductive hazards

STOT - single exposure

No information available.

DIMETHYL, METHYL(AMINOETHYLAMINOISOBUTYL) SILOXANE, TRIMETHYLSILOXY-TERMINATED (106842-44-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Based on available data, specific target organ toxicity is not expected after single oral, single inhalation, or single dermal exposure.

ALCOHOLS C12-14 SECONDARY ETHOXYLATED (84133-50-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Based on available data, specific target organ toxicity is not expected after single oral, single inhalation, or single dermal exposure.

GLYCERINE (56-81-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Based on available data, specific target organ toxicity is not expected after single oral, single inhalation, or single dermal exposure.

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Not classified Based on available data, specific target organ toxicity is not expected after single oral, single inhalation, or single dermal exposure.

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Not classified Based on available data, specific target organ toxicity is not

					expected after single oral, single inhalation, or single dermal exposure.
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STOT - repeated exposure No information available.

Component Information

DIMETHYL, METHYL(AMINOETHYLAMINOISOBUTYL) SILOXANE, TRIMETHYLSILOXY-TERMINATED (106842-44-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Based on available data, a STOT-RE classification is not warranted.

ALCOHOLS C12-14 SECONDARY ETHOXYLATED (84133-50-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Based on available data, a STOT-RE classification is not warranted.

GLYCERINE (56-81-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Excessive exposure to glycerine may cause increased fat levels in blood.

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Based on available data, a STOT-RE classification is not warranted.

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Based on available data, a STOT-RE classification is not warranted.

Aspiration hazard Not determined.

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Harmful to aquatic life with long lasting effects.

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

DIMETHYL, METHYL(AMINOETHYLAMINOISOBUTYL) SILOXANE, TRIMETHYLSILOXY-TERMINATED (106842-44-8)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Daphnia magna	EC50	11 mg/L	48 hours	
	Daphnia magna	EC50	> 40 mg/L	48 hours	

ALCOHOLS C12-14 SECONDARY ETHOXYLATED (84133-50-6)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test	Pimephales promelas	LC50	3.5 - 4.9 mg/L	96 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Daphnia magna	EC50	3.1 mg/L	48 hours	

GLYCERINE (56-81-5)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Oncorhynchus mykiss (rainbow trout)	LC50	54000 mg/L	96 hours	
	Pimephales promelas	LC50	>=885 mg/L	96 hours	
	Daphnia magna	EC50	> 10000 mg/L	24 hours	
	Algae	EC50	> 2900 mg/L	72 hours	
	activated sludge	EC50	> 1000 mg/L	3 hours	

ALCOHOLS, C12-14, ETHOXYLATED (68439-50-9)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Brachydanio rerio	LC50	> 1 - 10 mg/L	96 hours	
	Daphnia magna	EC50	> 1 - 10 mg/L	48 hours	
	Daphnia magna	NOEC	> 0.1 - 1 mg/L	21 days	

ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED (78330-21-9)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Oncorhynchus mykiss (rainbow trout)	LC50	5.6 mg/L	96 hours	
	Daphnia magna	EC50	> 1 - 10 mg/L	48 hours	
	Algae	EC50	> 1 - 10 mg/L	96 hours	
Chronic aquatic toxicity	Lepomis macrochirus	NOEC	> 0.33 mg/L	30 days	
Chronic aquatic toxicity	Daphnia magna	NOEC	0.77 mg/L	21 days	

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Pseudokirchneriella subcapitata	ErC50	> 0.002 mg/L	72 hours	
Chronic aquatic toxicity	Daphnia magna	NOEC	0.0046 mg/L	21 days	

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 204: Fish, Prolonged Toxicity Test: 14-Day Study	Oncorhynchus mykiss (rainbow trout)	LC50	> 16 µg/l	96 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Daphnia magna	EC50	> 2.9 mg/L	48 hours	
	Pseudokirchneriella subcapitata	ErC50	> 0.012 mg/L	96 hours	
	Pseudokirchneriella subcapitata	NOEC	0.012 mg/L	96 hours	

Chronic aquatic toxicity	Oncorhynchus mykiss (rainbow trout)	LC50	> 16 mg/L	14 days	
Chronic aquatic toxicity	Oncorhynchus mykiss (rainbow trout)	NOEC	>= 0.017 mg/L	45 days	
Chronic aquatic toxicity	Oncorhynchus mykiss (rainbow trout)	NOEC	>= 0.014 mg/L	90 days	
Chronic aquatic toxicity	Daphnia magna	NOEC	0.015 mg/L	21 days	
	Eisenia fetida	NOEC	>= 76 mg/kg	200 hours	

12.2. Persistence and degradability

Persistence and degradability No information available.

DIMETHYL, METHYL(AMINOETHYLAMINOISOBUTYL) SILOXANE,TRIMETHYLSILOXY-TERMINATED (106842-44-8)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	29 days	Biodegradation 0.43 %	Not readily biodegradable

ALCOHOLS C12-14 SECONDARY ETHOXYLATED (84133-50-6)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	Biodegradation > 60 %	Readily biodegradable

GLYCERINE (56-81-5)

Method	Exposure time	Value	Results
OECD Test No. 301D: Ready Biodegradability: Closed Bottle Test (TG 301 D)	20 days	82 % Biodegradation	Readily biodegradable
OECD Test No. 301C: Ready Biodegradability: Modified MITI Test (I) (TG 301 C)	28 days	63 % Biodegradation	Readily biodegradable

ALCOHOLS, C12-14, ETHOXYLATED (68439-50-9)

Method	Exposure time	Value	Results
			Readily biodegradable

ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED (78330-21-9)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	Biodegradation 95 %	Readily biodegradable

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	28 days	Biodegradation 4.5%	Not readily biodegradable

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

Method	Exposure time	Value	Results
OECD 310	28 days	Biodegradation 0.14%	Expected to biodegrade very slowly

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
ALCOHOLS C12-14 SECONDARY ETHOXYLATED	3.29
GLYCERINE	-1.76
ALCOHOLS, C11-14-ISO-, C13-RICH, ETHOXYLATED	6.3
DODECAMETHYLCYCLOHEXASILOXANE	8.87
DECAMETHYLCYCLOPENTASILOXANE	5.2

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product contains substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
GLYCERINE	The substance is not PBT / vPvB
ALCOHOLS, C12-14, ETHOXYLATED	The substance is not PBT / vPvB
DODECAMETHYLCYCLOHEXASILOXANE	vPvB substance
DECAMETHYLCYCLOPENTASILOXANE	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 Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

SECTION 14: Transport information**IATA**

- 14.1 UN number or ID number** UN2810
14.2 UN proper shipping name TOXIC LIQUID, ORGANIC, N.O.S. (DIMETHYL, METHYL(AMINOETHYLAMINOISOBUTYL) SILOXANE, TRIMETHYLSILOXY-TERMINATED)
14.3 Transport hazard class(es) 6.1
14.4 Packing group III
14.5 Environmental hazards No
14.6 Special precautions for user
Special Provisions A3, A4, A137
ERG Code 6L

IMDG

- 14.1 UN number or ID number** UN2810
UN proper shipping name TOXIC LIQUID, ORGANIC, N.O.S. (DIMETHYL, METHYL(AMINOETHYLAMINOISOBUTYL)

	SILOXANE,TRIMETHYLSILOXY-TERMINATED)
14.3 Transport hazard class(es)	6.1
14.4 Packing group	III
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	223, 274
EmS-No	F-A, S-A
14.7 Maritime transport in bulk according to IMO instruments	No information available

RID

14.1 UN number or ID number	UN2810
14.2 UN proper shipping name	TOXIC LIQUID, ORGANIC, N.O.S. (DIMETHYL, METHYL(AMINOETHYLAMINOISOBUTYL) SILOXANE,TRIMETHYLSILOXY-TERMINATED)
14.3 Transport hazard class(es)	6.1
14.4 Packing group	III
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	274, 614
Classification code	T1

ADR

14.1 UN number or ID number	UN2810
14.2 UN proper shipping name	TOXIC LIQUID, ORGANIC, N.O.S. (DIMETHYL, METHYL(AMINOETHYLAMINOISOBUTYL) SILOXANE,TRIMETHYLSILOXY-TERMINATED)
14.3 Transport hazard class(es)	6.1
14.4 Packing group	III
14.5 Environmental hazards	No
14.6 Special precautions for user	
Special Provisions	274, 614
Classification code	T1
Tunnel restriction code	(E)

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).

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
DECAMETHYLCYCLOPENTASILOXANE - 541-02-6	Use restricted. See item 70.	-

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Dangerous substance category per COMAH Regulations 2015 (as amended)

H2 - ACUTE TOXIC

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/NDSL	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/NDSL	- 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 information available
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SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H302	- Harmful if swallowed
H315	- Causes skin irritation
H318	- Causes serious eye damage
H319	- Causes serious eye irritation
H330	- Fatal if inhaled
H412	- Harmful to aquatic life with long lasting effects

Legend

SVHC:	Substances of Very High Concern for Authorisation:
PBT:	Persistent, Bioaccumulative, and Toxic (PBT) Substances
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		

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Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute dermal toxicity	On basis of test data
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

Prepared By Lisa Bland

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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