



SAFETY DATA SHEET

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

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

1.1. Product identifier

Product name	DOWSIL CE 7114 SILICONE QUAT MICROEMULSION
Product number	49156
Synonyms; trade names	DC CE 7114 MICROEMULSION, DOW CORNING CE 7114 SILICONE QUAT MICROEMULSION

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

Identified uses	Professional use. Consumer use. Chemical Intermediate Cosmetics Personal Care perfumery Fragrance
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1.3. Details of the supplier of the safety data sheet

Supplier	Univar Solutions UK Ltd Aquarius House 6 Mid Point Business Park Bradford BD3 7AY +44 1274 267300 +44 1274 267306 SDS.EMEA@univarsolutions.com
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1.4. Emergency telephone number

Emergency telephone	SGS - +32 (0)3 575 55 55 (24h)
Sds No.	49156

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Not Classified
Health hazards	Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317
Environmental hazards	Aquatic Chronic 2 - H411

2.2. Label elements

Hazard pictograms



Signal word

Danger

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

Hazard statements	H315 Causes skin irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements	P261 Avoid breathing vapour/ spray. P264 Wash skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ 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/ doctor. P391 Collect spillage.
Contains	METHYLAMINO SILOXANE WITH GLYCIDYL TRIMETHYLAMMONIUM CHLORIDE, POLY(OXY-1,2-ETHANEDIYL), A-UNDECYL-Ω-HYDROXY-, BRANCHED AND LINEAR, ALPHA-UNDECYL-OMEGA-HYDROXYPOL(OXY-1-2-ETHANEDIYL), BRANCHED AND LINEAR

2.3. Other hazards

This product contains a substance classified as vPvB. This product contains a substance classified as PBT. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

METHYLAMINO SILOXANE WITH GLYCIDYL TRIMETHYLAMMONIUM CHLORIDE CAS number: 495403-02-6 Polymer Acute Toxicity Estimate (oral):> 2000 mg/kg	>= 20.0 - <= 27.0 %
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	
POLY(OXY-1,2-ETHANEDIYL), A-UNDECYL-Ω-HYDROXY-, BRANCHED AND LINEAR CAS number: 127036-24-2 Acute Toxicity Estimate (oral):500 - 2000 mg/kg	>= 6.0 - <= 8.0 %
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318	

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

2-BUTYLOCTAN-1-OL**>= 2.5 - <= 4.8%**

CAS number: 3913-02-8

EC number: 223-470-0

REACH registration number: 01-
2119978234-31-XXXX

M factor (Acute) = 1

Acute Toxicity Estimate (oral):12930 mg/kg

Acute Toxicity Estimate (dermal):> 2000 mg/kg

Classification

Aquatic Acute 1 - H400

Aquatic Chronic 2 - H411

ALPHA-UNDECYL-OMEGA-HYDROXPOL(OXY-1-2-ETHANEDIYL), BRANCHED AND LINEAR**>= 2.0 - <= 4.0 %**

CAS number: 127036-24-2

Polymer

Acute Toxicity Estimate (oral):> 2000 mg/kg

Classification

Eye Dam. 1 - H318

2-PHENOXYETHANOL**>= 0.5 - <=1.0%**

CAS number: 122-99-6

EC number: 204-589-7

REACH registration number: 01-
2119488943-21-XXXX

Acute Toxicity Estimate (oral):1394 mg/kg

Acute Toxicity Estimate (dermal):> 2214 mg/kg

Acute Toxicity Estimate (inhalation):1 mg/lDust/Mist6 hours

Classification

Acute Tox. 4 - H302

Eye Dam. 1 - H318

STOT SE 3 - H335

OCTAMETHYLCYCLOTETRASILOXANE**<= 0.021%**

CAS number: 556-67-2

EC number: 209-136-7

M factor (Chronic) = 10

Substance of very high concern (SVHC).

Acute Toxicity Estimate (oral):> 4800 mg/kg

Acute Toxicity Estimate (inhalation):36 mg/l4 hoursDust/Mist

Acute Toxicity Estimate (dermal):> 2400 mg/kg

Classification

Flam. Liq. 3 - H226

Repr. 2 - H361f

Aquatic Chronic 1 - H410

The full text for all hazard statements is displayed in Section 16.

Composition comments

The data shown are in accordance with the latest EC Directives.

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	First aid personnel should wear appropriate protective equipment during any rescue. Wear protective clothing as described in Section 8 of this safety data sheet.
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Rinse nose and mouth with water. Get medical attention if any discomfort continues.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if any discomfort continues.
Skin contact	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water. Wash clothing and clean shoes thoroughly before reuse. Get medical attention if any discomfort continues. Provide shower facilities near the workplace.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for 30 minutes. Get medical attention immediately. Continue to rinse.

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

Skin contact	Causes skin irritation. May cause an allergic skin reaction.
Eye contact	Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated. May cause chemical eye burns.

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

Notes for the doctor	Treat symptomatically. If in doubt, get medical attention promptly.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards	When heated and in case of fire, toxic vapours/gases may be formed.
Hazardous combustion products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Chlorine. Formaldehyde Oxides of the following substances: Carbon. Silicon. Nitrogen.

5.3. Advice for firefighters

Protective actions during firefighting	No action shall be taken without appropriate training or involving any personal risk. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Do not use water jet as an extinguisher, as this will spread the fire. Contain and collect extinguishing water. Control run-off water by containing and keeping it out of sewers and watercourses. Evacuate area.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

Personal precautions Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Toxic to aquatic life with long lasting effects. Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with inert, damp, non-combustible material. Collect and place in suitable waste disposal containers and seal securely. Avoid the spillage or runoff entering drains, sewers or watercourses. Label the containers containing waste and contaminated materials and remove from the area as soon as possible.

6.4. Reference to other sections

Reference to other sections Wear protective clothing as described in Section 8 of this safety data sheet. Collect and dispose of spillage as indicated in Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Provide adequate ventilation. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Container must be kept tightly closed when not in use. Avoid spilling. Avoid release to the environment. Observe good chemical hygiene practices. Product residues retained in emptied containers can be hazardous.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Only store in correctly labelled containers. Store away from the following materials: Strong oxidising agents.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

OCTAMETHYLCYCLOTETRASILOXANE

Long-term exposure limit (8-hour TWA): SUP 10 ppm

Ingredient comments Observe any occupational exposure limits for the product or ingredients.

2-BUTYLOCTAN-1-OL (CAS: 3913-02-8)

DNEL

Workers - Dermal; Long term systemic effects: 35 mg/kg/day
 Workers - Inhalation; Long term systemic effects: 123.3 mg/m³
 Consumer - Dermal; Long term systemic effects: 21 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 35 mg/m³
 Consumer - Oral; Long term systemic effects: 21 mg/kg/day

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

PNEC	- Fresh water; 0.00014 mg/l
	- marine water; 0.000014 mg/l
	- Intermittent release; 0.014 mg/l
	- STP; 10 mg/l

2-PHENOXYETHANOL (CAS: 122-99-6)

Ingredient comments	No exposure limits known for ingredient(s).
DNEL	Workers - Dermal; Long term systemic effects: 20.83 mg/kg/day
	Workers - Inhalation; Long term systemic effects: 5.7 mg/m ³
	Workers - Inhalation; Long term local effects: 5.7 mg/m ³
	Consumer - Oral; Short term systemic effects: 9.23 mg/kg/day
	Consumer - Dermal; Long term systemic effects: 10.42 mg/kg/day
	Consumer - Inhalation; Long term systemic effects: 2.41 mg/m ³
	Consumer - Oral; Long term systemic effects: 9.23 mg/kg/day
	Consumer - Inhalation; Long term local effects: 2.41 mg/m ³

PNEC	- Fresh water; 0.943 mg/l
	- marine water; 0.094 mg/l
	- Intermittent release; 3.44 mg/l
	- STP; 36 mg/l
	- Sediment (Freshwater); 7.237 mg/kg
	- Sediment (Marinewater); 0.724 mg/kg
	- Soil; 1.31 mg/kg

OCTAMETHYLCYCLOTETRASILOXANE (CAS: 556-67-2)

DNEL	Workers - Inhalation; Long term systemic effects: 73 mg/m ³
	Workers - Inhalation; Long term local effects: 73 mg/m ³
	Consumer - Inhalation; Long term systemic effects: 13 mg/m ³
	Consumer - Oral; Long term systemic effects: 3.7 mg/kg/day
	Consumer - Inhalation; Long term local effects: 13 mg/m ³

PNEC	- Fresh water; 0.0015 mg/l
	- marine water; 0.00015 mg/l
	- Sediment (Freshwater); 3 mg/kg
	- Sediment (Marinewater); 0.3 mg/kg
	- Soil; 0.54 mg/kg
	- STP; 10 mg/l

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation. As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.

Eye/face protection

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles or face shield. Personal protective equipment for eye and face protection should comply with European Standard EN166.

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

Hand protection	The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. The selected gloves should have a breakthrough time of at least 4 hours. Butyl rubber. Neoprene. Nitrile rubber. Polyvinyl chloride (PVC). Thickness: > 0.35 mm Do not use the following: Polyvinyl alcohol (PVA). To protect hands from chemicals, gloves should comply with European Standard EN374.
Other skin and body protection	Wear suitable protective clothing as protection against splashing or contamination.
Hygiene measures	When using do not eat, drink or smoke. Wash at the end of each work shift and before eating, smoking and using the toilet. Remove contaminated clothing and protective equipment before entering eating areas. Eye wash facilities and emergency shower must be available when handling this product.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. If ventilation is inadequate, suitable respiratory protection must be worn. Gas filter, type A EN 136/140/141/145/143/149

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Translucent.
Odour	Characteristic.
Odour threshold	No information available.
pH	pH (concentrated solution): 6 - 7
Melting point	No information available.
Pour Point	No information available.
Freezing Point	Not determined.
Initial boiling point and range	100°C @ 760 mm Hg
Flash point	> 100°C Closed cup.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	No information available.
Other flammability	No information available.
Vapour pressure	No information available.
Vapour density	No information available.
Relative density	1.0
Bulk density	No information available.
Solubility(ies)	Not determined.
Partition coefficient	Not determined.

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	10 mPa s @ 25°C
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	No information available.
Oxidising properties	The product contains a substance classified as oxidising.

9.2. Other information

Other information	No information available.
Refractive index	No information available.
Particle size	Not applicable.
Molecular weight	No information available.
Volatility	No information available.
Saturation concentration	No information available.
Critical temperature	No information available.
Volatile organic compound	No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	The following materials may react with the product: Strong oxidising agents. Will decompose at temperatures exceeding 150°C. When heated, vapours/gases hazardous to health may be formed. Formaldehyde
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10.4. Conditions to avoid

Conditions to avoid	Avoid excessive heat for prolonged periods of time.
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10.5. Incompatible materials

Materials to avoid	Strong oxidising agents.
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10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Chlorine. Formaldehyde Oxides of the following substances: Carbon. Silicon. Nitrogen.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD ₅₀)	This product has low toxicity. Information given is applicable to the major ingredient. LD ₅₀ > 5000 mg/kg, Oral, Rat Estimated value.
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DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

ATE oral (mg/kg) 7,142.86

Acute toxicity - dermal

Notes (dermal LD₅₀) Information given is applicable to the major ingredient. LD₅₀ > 2000 mg/kg, Dermal, Rabbit Estimated value.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Not determined.

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation May cause an allergic skin reaction.

Germ cell mutagenicity

Genotoxicity - in vitro No information available.

Genotoxicity - in vivo No information available.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Reproductive toxicity - development No information available.

Specific target organ toxicity - single exposure

STOT - single exposure No specific test data are available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Toxicokinetics

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

Inhalation

Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion

May cause discomfort if swallowed.

Skin contact

Causes skin irritation. May cause an allergic skin reaction.

Eye contact

Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated. May cause chemical eye burns.

Toxicological information on ingredients.

METHYLAMINO SILOXANE WITH GLYCIDYL TRIMETHYLAMMONIUM CHLORIDE

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 2000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) Not determined.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Not determined.

Skin corrosion/irritation

Skin corrosion/irritation Severe skin irritation. Redness.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation May cause an allergic skin reaction. Guinea pig

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard No information available.

Toxicokinetics

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

Inhalation Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion May cause discomfort if swallowed.

Skin contact Severe skin irritation. Redness. May cause an allergic skin reaction.

Eye contact Causes serious eye irritation.

POLY(OXY-1,2-ETHANEDIYL), A-UNDECYL-Ω-HYDROXY-, BRANCHED AND LINEAR

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

Acute toxicity - oral

Notes (oral LD₅₀) Harmful if swallowed. LD₅₀ 500 - 2000 mg/kg, Oral, Rat OECD 401

Acute toxicity - dermal

Notes (dermal LD₅₀) Not determined.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Not determined.

Skin corrosion/irritation

Skin corrosion/irritation May be slightly irritating to skin. Redness.

Serious eye damage/irritation

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

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Not sensitising. Guinea pig

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure No information available.

Aspiration hazard

Aspiration hazard No information available.

Toxicokinetics

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

Inhalation

Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion

Harmful if swallowed.

Skin contact

May be slightly irritating to skin. Redness.

Eye contact

Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated. May cause chemical eye burns.

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

2-BUTYLOCTAN-1-OL

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 12930 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) This information is based on test data from similar products LD₅₀ >2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Not determined.

Skin corrosion/irritation

Skin corrosion/irritation May be slightly irritating to skin. Redness.

Serious eye damage/irritation

Serious eye damage/irritation May be slightly irritating to skin.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Not sensitising. Guinea pig

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

Reproductive toxicity - development No information available.

Specific target organ toxicity - single exposure

STOT - single exposure No information available.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met. Not classified as a specific target organ toxicant after repeated exposure.

Aspiration hazard

Aspiration hazard No information available.

Toxicokinetics

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

Inhalation

Gas or vapour in high concentrations may irritate the respiratory system.

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

Ingestion	May cause discomfort if swallowed.
Skin contact	May be slightly irritating to skin. Redness.
Eye contact	May cause temporary eye irritation.

ALPHA-UNDECYL-OMEGA-HYDROXPOL(OXY-1-2-ETHANEDIYL), BRANCHED AND LINEAR

Acute toxicity - oral

Notes (oral LD₅₀)	LD ₅₀ >2000 mg/kg, Oral, Rat
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Acute toxicity - dermal

Notes (dermal LD₅₀)	Not determined.
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Acute toxicity - inhalation

Notes (inhalation LC₅₀)	Not determined.
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Skin corrosion/irritation

Skin corrosion/irritation	May be slightly irritating to skin. Redness.
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Serious eye damage/irritation

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

Respiratory sensitisation	No information available.
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Skin sensitisation

Skin sensitisation	Not sensitising. Guinea pig
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Germ cell mutagenicity

Genotoxicity - in vitro	Negative.
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Carcinogenicity

Carcinogenicity	No information available.
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Reproductive toxicity

Reproductive toxicity - fertility	No information available.
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Specific target organ toxicity - single exposure

STOT - single exposure	No information available.
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Specific target organ toxicity - repeated exposure

STOT - repeated exposure	No information available.
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Aspiration hazard

Aspiration hazard	No information available.
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Toxicokinetics

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

Inhalation

Gas or vapour in high concentrations may irritate the respiratory system.

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

Ingestion	May cause discomfort if swallowed.
Skin contact	May be slightly irritating to skin. Redness.
Eye contact	Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated. May cause chemical eye burns.

2-PHENOXYETHANOL

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 1394 mg/kg, Oral, Harmful if swallowed.

ATE oral (mg/kg) 1,394.0

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2214 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ 1 mg/l, 6 hour, Dust/Mist Rat

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

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

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation - Human: Not sensitising. - Guinea pig: Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Negative.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No evidence of reproductive toxicity in animal studies.

Specific target organ toxicity - single exposure

STOT - single exposure May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 700 mg/kg, Oral, Rat

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

Toxicokinetics	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
Inhalation	May cause respiratory irritation.
Ingestion	Harmful if swallowed.
Skin contact	Skin irritation should not occur when used as recommended.
Eye contact	Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated. May cause chemical eye burns.

OCTAMETHYLCYCLOTETRASILOXANE

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 4800 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2400 mg/kg, Dermal, Rat

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ 36 mg/l, 4 hours, Dust/Mist Rat OECD 403

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation Not irritating.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Not sensitising. Guinea pig

Germ cell mutagenicity

Genotoxicity - in vitro This substance has no evidence of mutagenic properties. Negative.

Carcinogenicity

Carcinogenicity 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

Reproductive toxicity - fertility Suspected of damaging fertility. Two-generation study - , Inhalation, Vapour, Rat

Reproductive toxicity - development Teratogenicity: Based on available data the classification criteria are not met. Developmental toxicity: - : , Inhalation, Vapour, Rabbit

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

Specific target organ toxicity - single exposure

STOT - single exposure Not classified as a specific target organ toxicant after a single exposure.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Not classified as a specific target organ toxicant after repeated exposure. No adverse effects known., Dose level: <= 100 mg/kg, Oral, Rat No adverse effects known., Dose level: <= 1mg/l/6h/d , Inhalation, Vapour, No adverse effects known., Dose level: <= 200 mg/kg, Dermal,

Aspiration hazard

Aspiration hazard May be harmful if swallowed and enters airways.

Toxicokinetics

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

Inhalation

Gas or vapour in high concentrations may irritate the respiratory system.

Ingestion

May be harmful if swallowed and enters airways.

Skin contact

Skin irritation should not occur when used as recommended.

Eye contact

May cause temporary eye irritation.

Medical considerations

Octamethylcyclotetrasiloxane administered to rats by inhalation at concentrations of 500 and 700 ppm resulted in statistically significant decreases in the number of pups born and the live litter size in both the first and second generations. Prolonged estrous cycles, and decreased mating and fertility indices were observed following 700 ppm exposure in the second generation only. There were also increases in the incidence of deliveries of offspring extending over an unusually long time period (dystocia). Results from a 2 year repeated vapor 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. Based on the available information on its potential to cause harm to human health, Health Canada, in a 2008 screening assessment, has concluded that octamethylcyclotetrasiloxane is not entering the environment in a quantity or concentration or under conditions that constitute or may constitute a danger in Canada to human life or health (http://www.ec.gc.ca/substances/ese/eng/challenge/batch2/batch2_556-67-2.cfm). Repeated exposure in rats to D4 resulted in what appears to be 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.

SECTION 12: Ecological information

Ecotoxicity Toxic to aquatic life with long lasting effects.

Ecological information on ingredients.

METHYLAMINO SILOXANE WITH GLYCIDYL TRIMETHYLAMMONIUM CHLORIDE

Ecotoxicity Toxic to aquatic life with long lasting effects.

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

POLY(OXY-1,2-ETHANEDIYL), A-UNDECYL-Ω-HYDROXY-, BRANCHED AND LINEAR

Ecotoxicity The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

2-BUTYLOCTAN-1-OL

Ecotoxicity Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

ALPHA-UNDECYL-OMEGA-HYDROXPOL(OXY-1-2-ETHANEDIYL), BRANCHED AND LINEAR

Ecotoxicity The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

2-PHENOXYETHANOL

Ecotoxicity The product is not expected to be hazardous to the environment. However, large or frequent spills may have hazardous effects on the environment.

OCTAMETHYLCYCLOTETRAILOXANE

Ecotoxicity Very toxic to aquatic life with long lasting effects.

12.1. Toxicity

Toxicity Toxic to aquatic life with long lasting effects.

Ecological information on ingredients.

METHYLAMINO SILOXANE WITH GLYCIDYL TRIMETHYLAMMONIUM CHLORIDE

Toxicity Toxic to aquatic life with long lasting effects.

Acute aquatic toxicity

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 1 - 10 mg/l, Daphnia magna
Estimated value.

POLY(OXY-1,2-ETHANEDIYL), A-UNDECYL-Ω-HYDROXY-, BRANCHED AND LINEAR

Toxicity Not considered toxic to fish.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hour: 1 - 10 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - microorganisms EC₅₀, 3 days: 100 - 1000 mg/l,
OECD 209

2-BUTYLOCTAN-1-OL

Toxicity Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C₅₀ ≤ 1

M factor (Acute) 1

Acute toxicity - fish LC₅₀, 96 hours: 0.48 mg/l, Oncorhynchus mykiss (Rainbow trout)
OECD 203

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 0.14 mg/l, Daphnia magna OECD 202
Acute toxicity - aquatic plants	ErC ₅₀ , 72 hour: 2.1 mg/l, Pseudokirchneriella subcapitata OECD 201 NOEC, 72 hour: 0.38 mg/l, Pseudokirchneriella subcapitata OECD 201
Acute toxicity - microorganisms	This information is based on test data from similar products EC ₅₀ , 3 hour: >= 1000 mg/l, Activated sludge OECD 209

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates	This information is based on test data from similar products NOEC, 21 days: 14 µg/l, Daphnia magna
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ALPHA-UNDECYL-OMEGA-HYDROXYPOL(OXY-1-2-ETHANEDIYL), BRANCHED AND LINEAR

Toxicity	Not considered toxic to fish.
<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hour: > 1 - 10 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - microorganisms	EC ₅₀ , 3 hours: 100 - 500 mg/l, OECD 209

2-PHENOXYETHANOL

Toxicity	Not considered toxic to fish.
<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hours: 344 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: > 500 mg/l, Daphnia magna
Acute toxicity - aquatic plants	ErC ₅₀ , 72 hours: 625 mg/l, Desmodesmus subspicatus NOEC, 72 hour: 70 mg/l, Desmodesmus subspicatus
<u>Chronic aquatic toxicity</u>	
Chronic toxicity - fish early life stage	NOEC, 34 days: 23 mg/l, Pimephales promelas (Fat-head Minnow) LOEC, 34 days: 50 mg/l, Pimephales promelas (Fat-head Minnow)
Chronic toxicity - aquatic invertebrates	NOEC, 21 days: 9.43 mg/l, Daphnia magna LOEC, 21 days: 22.5 mg/l, Daphnia magna

OCTAMETHYLCYCLOTETRAILOXANE

Toxicity	Very toxic to aquatic life with long lasting effects.
<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	Not toxic at limit of water solubility. LC ₅₀ , 96 hour: > 0.022 mg/l, Oncorhynchus mykiss (Rainbow trout) Not toxic at limit of water solubility. LC ₅₀ , 14 days: > 0.0063 mg/l, Cyprinodon variegatus (Sheepshead minnow)

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

Acute toxicity - aquatic invertebrates	Not toxic at limit of water solubility. EC ₅₀ , 96 hours: > 0.0091 mg/l, Mysisidopsis bahia (opossum shrimp) Not toxic at limit of water solubility. EC ₅₀ , 48 hours: > 0.015 mg/l, Daphnia magna
Acute toxicity - aquatic plants	Not toxic at limit of water solubility. ErC ₅₀ , 96 hours: > 0.022 mg/l, Pseudokirchneriella subcapitata Not toxic at limit of water solubility. EC ₁₀ , 96 hours: >= 0.022 mg/l, Pseudokirchneriella subcapitata
<u>Chronic aquatic toxicity</u>	
NOEC	0.001 < NOEC ≤ 0.01
Degradability	Non-rapidly degradable
M factor (Chronic)	10
Chronic toxicity - fish early life stage	Not toxic at limit of water solubility. NOEC, 93 days: >= 0.0044 mg/l, Oncorhynchus mykiss (Rainbow trout)
Chronic toxicity - aquatic invertebrates	Not toxic at limit of water solubility. NOEC, 21 days: 0.0079 mg/l, Daphnia magna

12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

Ecological information on ingredients.

METHYLAMINO SILOXANE WITH GLYCIDYL TRIMETHYLAMMONIUM CHLORIDE

Persistence and degradability	This information is based on test data from similar products The product is not readily biodegradable.
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POLY(OXY-1,2-ETHANEDIYL), A-UNDECYL-Ω-HYDROXY-, BRANCHED AND LINEAR

Persistence and degradability	The product is readily biodegradable.
Biodegradation	- Degradation > 90: 28 day OECD 301E

2-BUTYLOCTAN-1-OL

Persistence and degradability	The substance is readily biodegradable.
Biodegradation	- Degradation 84%: 28 days OECD 301B
Chemical oxygen demand	2.2 mg/mg

ALPHA-UNDECYL-OMEGA-HYDROXPOL(OXY-1-2-ETHANEDIYL), BRANCHED AND LINEAR

Persistence and degradability	The product is readily biodegradable.
Biodegradation	- Degradation > 90: 28 day OECD 301E

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

2-PHENOXYETHANOL

Persistence and degradability	The product is readily biodegradable.
Biodegradation	- Degradation > 90%: 15 days - Degradation 90%: 28 days

OCTAMETHYLCYCLOTETRASILOXANE

Persistence and degradability	The product is expected to be slowly biodegradable.
Stability (hydrolysis)	pH7 - Half-life, DT ₅₀ : 3.9 day @ 25°C OECD 111
Biodegradation	- Degradation 3.7%: 28 day OECD 310

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

METHYLAMINO SILOXANE WITH GLYCIDYL TRIMETHYLAMMONIUM CHLORIDE

Bioaccumulative potential No data available on bioaccumulation.

POLY(OXY-1,2-ETHANEDIYL), A-UNDECYL-Ω-HYDROXY-, BRANCHED AND LINEAR

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

2-BUTYLOCTAN-1-OL

Bioaccumulative potential Bioaccumulation is unlikely. BCF: 1.92, Fish Estimated value.

Partition coefficient log Pow: 5.5 OECD 117

ALPHA-UNDECYL-OMEGA-HYDROXPOL(OXY-1-2-ETHANEDIYL), BRANCHED AND LINEAR

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

2-PHENOXYETHANOL

Bioaccumulative potential Bioaccumulation is unlikely. BCF: 0.35, Fish

Partition coefficient log Pow: 1.2

OCTAMETHYLCYCLOTETRASILOXANE

Bioaccumulative potential Potentially bioaccumulating.
BCF: 12400, Pimephales promelas (Fat-head Minnow)

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

Partition coefficient log Pow: 6.49

12.4. Mobility in soil

Mobility No information available.

Ecological information on ingredients.**METHYLAMINO SILOXANE WITH GLYCIDYL TRIMETHYLAMMONIUM CHLORIDE**

Mobility No information available.

POLY(OXY-1,2-ETHANEDIYL), A-UNDECYL-Ω-HYDROXY-, BRANCHED AND LINEAR

Mobility No information available.

2-BUTYLOCTAN-1-OL

Mobility Not determined.

ALPHA-UNDECYL-OMEGA-HYDROXPOL(OXY-1-2-ETHANEDIYL), BRANCHED AND LINEAR

Mobility No information available.

2-PHENOXYETHANOL

Mobility The product has poor water-solubility.

Adsorption/desorption
coefficient Soil, Water - : 1.6 @ 20°C

Surface tension 70.7 mN/m @ 19.9°C

OCTAMETHYLCYCLOTETRASILOXANE

Mobility Not considered mobile.

Adsorption/desorption
coefficient - Koc: 16596 @ 20°C

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB
assessment This product contains a substance classified as vPvB. This product contains a substance
classified as PBT.

Ecological information on ingredients.**METHYLAMINO SILOXANE WITH GLYCIDYL TRIMETHYLAMMONIUM CHLORIDE**

Results of PBT and vPvB
assessment This substance is not classified as PBT or vPvB according to current EU criteria.

POLY(OXY-1,2-ETHANEDIYL), A-UNDECYL-Ω-HYDROXY-, BRANCHED AND LINEAR

Results of PBT and vPvB
assessment This substance is not classified as PBT or vPvB according to current EU criteria.

2-BUTYLOCTAN-1-OL

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

ALPHA-UNDECYL-OMEGA-HYDROXPOL(OXY-1-2-ETHANEDIYL), BRANCHED AND LINEAR

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

2-PHENOXYETHANOL

Results of PBT and vPvB assessment This substance is not classified as PBT or vPvB according to current EU criteria.

OCTAMETHYLCYCLOTETRASILOXANE

Results of PBT and vPvB assessment This substance is classified as PBT. This substance is classified as vPvB. Octamethylcyclotetrasiloxane (D4) meets the current REACH Annex XIII criteria for PBT and vPvB. In Canada, D4 has been assessed and deemed to meet the PiT criteria. However, D4 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D4 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living organisms.

12.6. Other adverse effects

Other adverse effects The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Ecological information on ingredients.

METHYLAMINO SILOXANE WITH GLYCIDYL TRIMETHYLAMMONIUM CHLORIDE

Other adverse effects The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

POLY(OXY-1,2-ETHANEDIYL), A-UNDECYL-Ω-HYDROXY-, BRANCHED AND LINEAR

Other adverse effects The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

2-BUTYLOCTAN-1-OL

Other adverse effects The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

ALPHA-UNDECYL-OMEGA-HYDROXPOL(OXY-1-2-ETHANEDIYL), BRANCHED AND LINEAR

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

Other adverse effects The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

2-PHENOXYETHANOL

Other adverse effects The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

OCTAMETHYLCYCLOTETRAILOXANE

Other adverse effects The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste. Do not puncture or incinerate, even when empty.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General Wear protective clothing as described in Section 8 of this safety data sheet.

14.1. UN number

UN No. (ADR/RID) 3082

UN No. (IMDG) 3082

UN No. (ICAO) 3082

UN No. (ADN) 3082

14.2. UN proper shipping name

Proper shipping name (ADR/RID) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS METHYLAMINO SILOXANE WITH GLYCIDYL TRIMETHYLAMMONIUM CHLORIDE, 2-BUTYLOCTAN-1-OL)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS METHYLAMINO SILOXANE WITH GLYCIDYL TRIMETHYLAMMONIUM CHLORIDE, 2-BUTYLOCTAN-1-OL)

Proper shipping name (ICAO) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS METHYLAMINO SILOXANE WITH GLYCIDYL TRIMETHYLAMMONIUM CHLORIDE, 2-BUTYLOCTAN-1-OL)

Proper shipping name (ADN) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS METHYLAMINO SILOXANE WITH GLYCIDYL TRIMETHYLAMMONIUM CHLORIDE, 2-BUTYLOCTAN-1-OL)

14.3. Transport hazard class(es)

ADR/RID class 9

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

ADR/RID classification code M6

ADR/RID label 9

IMDG class 9

ICAO class/division 9

ADN class 9

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

ADN packing group III

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-A, S-F

ADR transport category 3

Emergency Action Code •3Z

Hazard Identification Number (ADR/RID) 90

Tunnel restriction code (-)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78
and the IBC Code

SECTION 15: Regulatory information

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

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020

This product may impact SEVESO storage regulations.

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

Restrictions (Annex XVII Regulation 1907/2006)

CAUTION - Chemical may be subject to REACH RESTRICTIONS - see Annex XVII. This product is/contains a substance that is included in REGULATION (EC) No 1907/2006 (REACH) ANNEX XVII - RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES. Entry number: 70 Entry number: 3

Seveso Directive - Control of major accident hazards E2

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ATE: Acute Toxicity Estimate.
 ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
 CAS: Chemical Abstracts Service.
 DNEL: Derived No Effect Level.
 IATA: International Air Transport Association.
 IMDG: International Maritime Dangerous Goods.
 Kow: Octanol-water partition coefficient.
 LC₅₀: Lethal Concentration to 50 % of a test population.
 LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
 PBT: Persistent, Bioaccumulative and Toxic substance.
 PNEC: Predicted No Effect Concentration.
 REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
 vPvB: Very Persistent and Very Bioaccumulative.
 IARC: International Agency for Research on Cancer.
 MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.
 cATpE: Converted Acute Toxicity Point Estimate.
 BCF: Bioconcentration Factor.
 BOD: Biochemical Oxygen Demand.
 EC₅₀: 50% of maximal Effective Concentration.
 LOAEC: Lowest Observed Adverse Effect Concentration.
 LOAEL: Lowest Observed Adverse Effect Level.
 NOAEC: No Observed Adverse Effect Concentration.
 NOAEL: No Observed Adverse Effect Level.
 NOEC: No Observed Effect Concentration.
 LOEC: Lowest Observed Effect Concentration.
 DMEL: Derived Minimal Effect Level.
 EL50: Exposure Limit 50
 hPa: Hectopascal
 LL50: Lethal Loading fifty
 OECD: Organisation for Economic Co-operation and Development
 POW: Octanol-water partition coefficient
 SCBA: self-contained breathing apparatus
 STP: Sewage Treatment Plant
 VOC: Volatile Organic Compounds

DOWSIL CE 7114 SILICONE QUAT MICROEMULSION

Classification abbreviations and acronyms	Acute Tox. = Acute toxicity Aquatic Acute = Hazardous to the aquatic environment (acute) Aquatic Chronic = Hazardous to the aquatic environment (chronic)
Key literature references and sources for data	Supplier's information.
Classification procedures according to Regulation (EC) 1272/2008	Skin Irrit. 2 - H315: Calculation method. Skin Sens. 1 - H317: Calculation method. Eye Dam. 1 - H318: Calculation method. Aquatic Chronic 2 - H411: Calculation method.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	01/06/2023
Version number	4.000
Supersedes date	07/05/2019
SDS number	49156
SDS status	Approved.
Hazard statements in full	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H361f Suspected of damaging fertility. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.
Signature	Lisa Bland

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