



SAFETY DATA SHEET DOWSIL CE-7081 SMART STYLE

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

1.1. Product identifier

Product name DOWSIL CE-7081 SMART STYLE
Product number 48316
Synonyms; trade names DOW CORNING CE-7081 SMART STYLE

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

Identified uses Cosmetics

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@UnivarSolutions.com

1.4. Emergency telephone number

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

Sds No. 48316

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
Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements H315 Causes skin irritation.
H318 Causes serious eye damage.

DOWSIL CE-7081 SMART STYLE

Precautionary statements

P264 Wash skin thoroughly after handling.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 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.
 P332+P313 If skin irritation occurs: Get medical advice/ attention.
 P362+P364 Take off contaminated clothing and wash it before reuse.

Contains

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 PBT. This product contains a substance classified as vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

DIME, ME(AMINOETHYLAMINOISOBUTYL) SILOXANE, **>=20.0 - <=36.0%**
RXN W/GLYCIDOXY-FUNCTIONALORGANIC OR
SILICONE

CAS number: 853411-22-0

Classification

Skin Irrit. 2 - H315

Eye Irrit. 2 - H319

POLY(OXY-1,2-ETHANEDIYL), A-UNDECYL-Ω-HYDROXY-, **>=6.0 - <=9.0%**
BRANCHED AND LINEAR

CAS number: 127036-24-2

Classification

Acute Tox. 4 - H302

Eye Dam. 1 - H318

ALPHA-UNDECYL-OMEGA-HYDROXYPOL(OXY-1-2- **>=2.5 - <=3.7%**
ETHANEDIYL), BRANCHED AND LINEAR

CAS number: 127036-24-2

Classification

Acute Tox. 4 - H302

Eye Dam. 1 - H318

MONOPROPYLENE GLYCOL **>=2.0 - <=3.0%**

CAS number: 57-55-6

EC number: 200-338-0

REACH registration number: 01-
2119456809-23-XXXX

Classification

Not Classified

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DODECAMETHYLCYCLOHEXASILOXANE		>=0.171 - <=0.3%
CAS number: 540-97-6	EC number: 208-762-8	REACH registration number: 01-2119517435-42-XXXX

Classification
Not Classified

DECAMETHYLCYCLOPENTASILOXANE		>=0.114 - <=0.2%
CAS number: 541-02-6	EC number: 208-764-9	REACH registration number: 01-2119511367-43-XXXX

Classification
Not Classified

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.

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. 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. Get medical attention if any discomfort continues. Provide shower facilities near the workplace.
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention immediately. Chemical burns must be treated by a physician.

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

Skin contact	Causes skin irritation.
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.
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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.
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Hazardous combustion products

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

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. Avoid the spillage or runoff entering drains, sewers or 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

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

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

Stop leak if safe to do so. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections

Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions

Avoid contact with skin, eyes and clothing. Avoid inhalation of vapours and spray/mists. Container must be kept tightly closed when not in use. Avoid spilling. Avoid release to the environment. Observe good chemical hygiene practices. 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.

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. Container must be kept tightly closed when not in use. 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

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MONOPROPYLENE GLYCOL

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ particulate

Long-term exposure limit (8-hour TWA): WEL 150 ppm 474 mg/m³ total vapour and particulates

DECAMETHYLCYCLOPENTASILOXANE

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

WEL = Workplace Exposure Limit

Ingredient comments

Observe any occupational exposure limits for the product or ingredients.

MONOPROPYLENE GLYCOL (CAS: 57-55-6)

DNEL	General population - Inhalation; Long term systemic effects: 50 mg/m ³
	General population - Inhalation; Long term local effects: 10 mg/m ³
	Workers - Inhalation; Long term systemic effects: 168 mg/m ³
	Workers - Inhalation; Long term local effects: 10 mg/m ³
	General population - Dermal; Long term systemic effects: 213 mg/m ³
	General population - Oral; Long term systemic effects: 85 mg/m ³
PNEC	- Fresh water; 260 mg/l
	- marine water; 26 mg/l
	- STP; 20000 mg/l
	- Sediment (Freshwater); 572 mg/kg
	- Sediment (Marinewater); 57.2 mg/kg
	- Soil; 50 mg/kg
	- Intermittent release; 183 mg/l

DODECAMETHYLCYCLOHEXASILOXANE (CAS: 540-97-6)

DNEL	Workers - Inhalation; Long term systemic effects: 11 mg/m ³
	Workers - Inhalation; Short term local effects: 6.1 mg/m ³
	Workers - Inhalation; Long term local effects: 1.22 mg/m ³
	Consumer - Inhalation; Long term systemic effects: 2.7 mg/m ³
	Consumer - Inhalation; Short term local effects: 1.5 mg/m ³
	Consumer - Inhalation; Long term local effects: 0.3 mg/m ³
	Consumer - Oral; Short term systemic effects: 1.7 mg/kg/day
	Consumer - Oral; Long term systemic effects: 1.7 mg/kg/day
PNEC	- Sediment (Freshwater); 2.826 mg/kg
	- Sediment (Marinewater); 0.282 mg/kg
	- Soil; 3.336 mg/kg
	- STP; >1.0 mg/l

DECAMETHYLCYCLOPENTASILOXANE (CAS: 541-02-6)

DNEL	Workers - Inhalation; Short term systemic effects: 97.3 mg/m ³
	Workers - Inhalation; Short term local effects: 24.2 mg/m ³
	Workers - Inhalation; Long term systemic effects: 97.3 mg/m ³
	Workers - Inhalation; Long term local effects: 24.2 mg/m ³
	Consumer - Inhalation; Short term systemic effects: 17.3 mg/m ³
	Consumer - Inhalation; Short term local effects: 4.3 mg/m ³
	Consumer - Inhalation; Long term systemic effects: 17.3 mg/m ³
	Consumer - Inhalation; Long term local effects: 4.3 mg/m ³
	Consumer - Oral; Short term systemic effects: 5 mg/kg/day
	Consumer - Oral; Long term systemic effects: 5 mg/kg/day

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PNEC

- Fresh water; >0.0012 mg/l
- marine water; >0.00012 mg/l
- Sediment (Freshwater); 2.4 mg/kg
- Sediment (Marinewater); 0.24 mg/kg
- Soil; 1.1 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: Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

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 2 hours. Butyl rubber. Neoprene. Nitrile rubber. Polyvinyl chloride (PVC). Viton rubber (fluoro rubber). Rubber (natural, latex). Thickness: > 0.35 mm Avoid contact with: Polyvinyl alcohol (PVA). To protect hands from chemicals, gloves should comply with European Standard EN374.

Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

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. Organic vapour filter. Combination filter, type A2/P2. 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	Light blue.
Odour	Characteristic.
Odour threshold	No information available.
pH	No information available.
Melting point	No information available.
Initial boiling point and range	> 35°C @ 760 mm Hg

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Flash point	100°C Setaflash closed cup.
Evaporation rate	No information available.
Evaporation factor	No information available.
Flammability (solid, gas)	No information available.
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	1.01
Bulk density	No information available.
Solubility(ies)	No information available.
Partition coefficient	No information available.
Auto-ignition temperature	No information available.
Decomposition Temperature	No information available.
Viscosity	8.4 mPa.s
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	No information available.
Oxidising properties	Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information	Not determined.
Refractive index	No information available.
Particle size	No information available.
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.
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10.4. Conditions to avoid

Conditions to avoid None known.

10.5. Incompatible materials

Materials to avoid Oxidising agents.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD₅₀) Not determined.

ATE oral (mg/kg) 5,000.0

Acute toxicity - dermal

Notes (dermal LD₅₀) Not determined.

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Not determined.

Skin corrosion/irritation

Animal data Causes skin irritation.

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 Information given is applicable to the major ingredient. Not sensitising. Guinea pig

Germ cell mutagenicity

Genotoxicity - in vitro Information given is applicable to the major ingredient. Negative.

Carcinogenicity

Carcinogenicity No information available.

Reproductive toxicity

Reproductive toxicity - fertility No information available.

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 No information available.

Aspiration hazard

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

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

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Ingestion	May cause discomfort if swallowed.
Skin contact	Causes skin irritation.
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.

DIME, ME(AMINOETHYLAMINOISOBUTYL) SILOXANE, RXN W/GLYCIDOXY-FUNCTIONAL ORGANIC OR SILICONE

Skin corrosion/irritation

Skin corrosion/irritation Causes skin irritation. Read-across data.

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye irritation. Fully reversible within 21 days.

Skin sensitisation

Skin sensitisation Not sensitising. Read-across data.

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

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 300 - 2000 mg/kg, Oral, Rat OECD 401

Skin corrosion/irritation

Skin corrosion/irritation Not irritating. Rabbit

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage. Irreversible effect. Rabbit

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation No information available.

Germ cell mutagenicity

Genotoxicity - in vitro No information available.

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

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Aspiration hazard No information available.

Inhalation May cause respiratory irritation.

Ingestion Harmful if swallowed.

Skin contact May be slightly irritating to skin.

Eye contact Causes serious eye damage.

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

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 300 - 2000 mg/kg, Oral, Rat OECD 401

ATE oral (mg/kg) 500.0

Skin corrosion/irritation

Skin corrosion/irritation Not irritating. Rabbit

Serious eye damage/irritation

Serious eye damage/irritation Causes serious eye damage. Irreversible effect. Rabbit

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation No information available.

Germ cell mutagenicity

Genotoxicity - in vitro No information available.

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.

Inhalation May cause respiratory irritation.

Ingestion Harmful if swallowed.

Skin contact May be slightly irritating to skin.

Eye contact Causes serious eye damage.

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MONOPROPYLENE GLYCOLAcute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 22,000.0

Species Rat

Notes (oral LD₅₀) LD₅₀ 22000 mg/kg, Oral, Rat LD₅₀ 19700 mg/kg, Oral, Guinea pig

ATE oral (mg/kg) 22,000.0

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ 41 mg/l, Inhalation, Rat

Skin corrosion/irritation

Animal data Not irritating. Rabbit OECD 404

Serious eye damage/irritation

Serious eye damage/irritation Not irritating. Rabbit OECD 405

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Not sensitising. Guinea pig OECD 406

Germ cell mutagenicity

Genotoxicity - in vitro This substance has no evidence of mutagenic properties. Ames test Negative. OECD 473

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility This substance has no evidence of toxicity to reproduction.

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.

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

Ingestion May cause discomfort if swallowed.

Skin contact Prolonged skin contact may cause temporary irritation.

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Eye contact May cause temporary eye irritation.

DODECAMETHYLCYCLOHEXASILOXANE

Acute toxicity - oral

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

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rabbit

DECAMETHYLCYCLOPENTASILOXANE

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 24134 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ dust/mist mg/l) 8.67

Species Rat

Notes (inhalation LC₅₀) LC₅₀ 8.67 mg/l, Inhalation, Dust/Mist, Rat

ATE inhalation (dusts/mists mg/l) 8.67

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative.

Genotoxicity - in vivo DNA damage and/or repair: Negative.

Carcinogenicity

Carcinogenicity 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

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

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

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 NOAEL 200 mg/kg, Dermal, NOAEL 100 mg/kg, Oral, LOAEL 125 mg/kg, ,

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

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Ingestion	May cause discomfort if swallowed.
Skin contact	Skin irritation should not occur when used as recommended.
Eye contact	Vapour or spray in the eyes may cause irritation and smarting.

SECTION 12: Ecological information

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

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

Ecotoxicity	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
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ALPHA-UNDECYL-OMEGA-HYDROXPOL(OXY-1-2-ETHANEDIYL), BRANCHED AND LINEAR

Ecotoxicity	The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
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MONOPROPYLENE GLYCOL

Ecotoxicity	The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.
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DODECAMETHYLCYCLOHEXASILOXANE

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

Ecotoxicity	The product components are not classified as environmentally hazardous. However, large or frequent spills may have hazardous effects on the environment.
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12.1. Toxicity

Toxicity	No information available.
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Ecological information on ingredients.

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

Toxicity	Not considered toxic to fish.
<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC ₅₀ , 96 hour: > 5 mg/l, Brachydanio rerio (Zebra Fish)
Acute toxicity - aquatic invertebrates	LC ₅₀ , 48 hours: > 5 mg/l, Daphnia magna

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

Toxicity	Not considered toxic to fish.
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Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hour: > 5 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates LC₅₀, 48 hours: > 5 mg/l, Daphnia magna

MONOPROPYLENE GLYCOL

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 40613 mg/l, Oncorhynchus mykiss (Rainbow trout)
LC₅₀, 96 hour: 55770 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 4000 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 96 hours: 19000 mg/l, Scenedesmus subspicatus
EC₅₀, 96 hour: 19100 mg/l, Skeletonema costatum
NOEC, 96 hour: 15000 mg/l, Scenedesmus subspicatus
NOEC, 14 day: < 5300 mg/l, Skeletonema costatum

Acute toxicity - microorganisms NOEC, 18 hour: > 20000 mg/l, Pseudomonas putida

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 7 days: 13020 mg/l, Daphnia magna
NOEC, 7 day: 29000 mg/l, Freshwater invertebrates
Ceriodaphnia sp.

DODECAMETHYLCYCLOHEXASILOXANE

Acute aquatic toxicity

Acute toxicity - aquatic plants ErC₅₀, 72 hour: > 0.002 mg/l, Pseudokirchneriella subcapitata
Not toxic at limit of water solubility.

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 21 day: 0.0046 mg/l, Daphnia magna
Not toxic at limit of water solubility.

DECAMETHYLCYCLOPENTASILOXANE

Toxicity Not toxic at limit of water solubility.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: >16 µg/l, Oncorhynchus mykiss (Rainbow trout)
Not toxic at limit of water solubility.

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: >2.9 mg/l, Daphnia magna
OECD 202
Not toxic at limit of water solubility.

Acute toxicity - aquatic plants ErC₅₀, 96 hours: > 0.012 mg/l, Pseudokirchneriella subcapitata
Not toxic at limit of water solubility.

NOEC, 96 hours: 0.012 mg/l, Pseudokirchneriella subcapitata
Not toxic at limit of water solubility.

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Acute toxicity - terrestrial NOEC, : ≥ 76 mg/kg, Eisenia Fetida (Earthworm)

Chronic aquatic toxicity

Chronic toxicity - fish early life stage Not toxic at limit of water solubility.
LC₅₀, 14 day: >16 mg/l, Oncorhynchus mykiss (Rainbow trout)

Not toxic at limit of water solubility.
NOEC, 45 day: ≥ 0.017 mg/l, Oncorhynchus mykiss (Rainbow trout)

Not toxic at limit of water solubility.
NOEC, 90 day: ≥ 0.014 mg/l, Oncorhynchus mykiss (Rainbow trout)

Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0.015 mg/l, Daphnia magna
OECD 211

12.2. Persistence and degradability

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

Ecological information on ingredients.

DIME, ME(AMINOETHYLAMINOISOBUTYL) SILOXANE, RXN W/GLYCIDOXY-FUNCTIONAL ORGANIC OR SILICONE

Persistence and degradability The product is not readily biodegradable.

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

Persistence and degradability The product is readily biodegradable.

Biodegradation - Degradation > 60 : 28 day
OECD 301E

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

Persistence and degradability The product is readily biodegradable.

Biodegradation - Degradation > 60 : 28 day
OECD 301E

MONOPROPYLENE GLYCOL

Persistence and degradability The substance is readily biodegradable.

Biodegradation - Degradation $>81\%$: 28 days
OECD 301F

- Degradation 96%: 64 days

Biological oxygen demand BOD₅: 1170 mg O₂/l

Chemical oxygen demand 4700 mg O₂/l

DODECAMETHYLCYCLOHEXASILOXANE

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Persistence and degradability The product is not readily biodegradable.

Biodegradation - Degradation 57%: 28 days
OCED 301B

DECAMETHYLCYCLOPENTASILOXANE

Persistence and degradability Not readily biodegradable.

Biodegradation - Degradation 0.14%: 28 days
(OECD 310)

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

Ecological information on ingredients.

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

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

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

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient No information available.

MONOPROPYLENE GLYCOL

Bioaccumulative potential The product is not bioaccumulating. BCF: < 0.09,

Partition coefficient log Pow: -1.07

DODECAMETHYLCYCLOHEXASILOXANE

Bioaccumulative potential Bioaccumulation is unlikely.

Partition coefficient log Pow: 8.87

DECAMETHYLCYCLOPENTASILOXANE

Bioaccumulative potential BCF: > 500, Pimephales promelas (Fat-head Minnow) BCF: 2010, Fish Estimated value.

Partition coefficient log Pow: 5.2

12.4. Mobility in soil

Mobility No information available.

Ecological information on ingredients.

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

Mobility No information available.

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

Mobility No information available.

MONOPROPYLENE GLYCOL

Mobility The product is soluble in water.

Adsorption/desorption coefficient - Koc: 2.9 @ 20°C - Log Koc: 0.46 @ 20°C

Henry's law constant 0.00566 atm m³/mol @ 12°C

DODECAMETHYLCYCLOHEXASILOXANE

Mobility Mobile.

DECAMETHYLCYCLOPENTASILOXANE

Mobility Not considered mobile.

Adsorption/desorption coefficient - Koc: > 5000 @ 20°C Estimated value.

12.5. Results of PBT and vPvB assessment

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

Ecological information on ingredients.

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

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.

MONOPROPYLENE GLYCOL

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

DODECAMETHYLCYCLOHEXASILOXANE

Results of PBT and vPvB assessment Dodecamethyl cyclohexasiloxane (D6) meets the current REACh Annex XIII criteria for vPvB. However, D6 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D6 is not biomagnifying in aquatic and terrestrial food webs. D6 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D6 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.

DECAMETHYLCYCLOPENTASILOXANE

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Results of PBT and vPvB assessment

Decamethylcyclopentasiloxane (D5) meets the current REACh Annex XIII criteria for vPvB. However, D5 does not behave similarly to known PBT/vPvB substances. The weight of scientific evidence from field studies shows that D5 is not biomagnifying in aquatic and terrestrial food webs. D5 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D5 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. Based on an independent scientific panel of experts, the Canadian Minister of the Environment has concluded that "D5 is not entering the environment in a quantity or concentration or under conditions that have or may have an immediate or long-term harmful effect on the environment or its biological diversity, or that constitute or may constitute a danger to the environment on which life depends".

12.6. Other adverse effects

Other adverse effects None known.

Ecological information on ingredients.

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

Other adverse effects Not determined.

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

Other adverse effects Not determined.

MONOPROPYLENE GLYCOL

Other adverse effects No information required.

DECAMETHYLCYCLOPENTASILOXANE

Other adverse effects Not determined.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Do not puncture or incinerate, even when empty. Waste is classified as hazardous waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

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Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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) No 2015/830 of 28 May 2015.

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

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

Canada - DSL/NDL

Some of the ingredients are listed or exempt.
DSL

US - TSCA

Some of the ingredients are listed or exempt.

Australia - AICS

Some of the ingredients are listed or exempt.

Philippines – PICCS

All the ingredients are listed or exempt.

New Zealand - NZIOC

Some of the ingredients are listed or exempt.

SECTION 16: Other information

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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

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.

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date

15/09/2019

Version number

3.000

Supersedes date

19/11/2017

SDS number

48316

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SDS status	Approved.
Hazard statements in full	H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation.
Signature	Lisa Bland