



SAFETY DATA SHEET

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

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

1.1. Product identifier

Product name DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

Product number 13434

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

Identified uses Cleaning agent. Additive

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

1.4. Emergency telephone number

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

Sds No. 13434

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Skin Corr. 1 - H314 Eye Dam. 1 - H318

Environmental hazards Aquatic Chronic 3 - H412

2.2. Label elements

Hazard pictograms



Signal word Danger

Hazard statements
H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

Precautionary statements

P273 Avoid release to the environment.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
 Rinse skin with water or shower.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P310 Immediately call a POISON CENTER/ doctor.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Contains

ALCOHOLS C6 - C12 ETHOXYLATED, QUATERNARY AMMONIUM COMPOUNDS,
 BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB. 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

DIPROPYLENEGLYCOL METHYLEETHER

>= 4.0 - <= 5.0 %

CAS number: 34590-94-8

EC number: 252-104-2

REACH registration number: 01-
2119450011-60-XXXX

Acute Toxicity Estimate (oral):> 5000 mg/kg

Acute Toxicity Estimate (dermal):9510 mg/kg

Acute Toxicity Estimate (inhalation):LC₅₀3.40447 mg/l7 hoursVapour

Classification

Not Classified

ALCOHOLS C6 - C12 ETHOXYLATED

>= 2.3 - <= 3.1 %

CAS number: 68439-45-2

Acute Toxicity Estimate (oral):500 mg/kg

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

Classification

Acute Tox. 4 - H302

Eye Dam. 1 - H318

1-METHOXY-2-PROPANOL

>= 2.0 - <= 2.8 %

CAS number: 107-98-2

EC number: 203-539-1

REACH registration number: 01-
2119457435-35-XXXX

Acute Toxicity Estimate (oral):3739 - 4277 mg/kg

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

Acute Toxicity Estimate (inhalation):30.02 mg/lVapour4 hours

Classification

Flam. Liq. 3 - H226

STOT SE 3 - H336

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES

>= 0.9 - <= 1.3 %

CAS number: 68424-85-1

EC number: 270-325-2

REACH registration number: 01-2119965180-41-XXXX

M factor (Acute) = 10

M factor (Chronic) = 1

Acute Toxicity Estimate (oral): 426 mg/kg

Acute Toxicity Estimate (dermal): 3412 mg/kg

Classification

Acute Tox. 4 - H302

Skin Corr. 1B - H314

Eye Dam. 1 - H318

Aquatic Acute 1 - H400

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.

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. Give a few small glasses of water or milk to drink. Do not induce vomiting unless under the direction of medical personnel. Never give anything by mouth to an unconscious person. 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. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues. Wash clothing and clean shoes thoroughly before reuse. 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 at least 15 minutes. Get medical attention immediately.

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

Skin contact

Causes severe burns. May cause serious chemical burns to the skin.

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. May cause chemical burns in mouth, oesophagus and stomach. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

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. Aldehydes. Ketones. Acids - organic. Oxides of the following substances: Carbon. 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

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/spray and contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Harmful 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 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. Avoid the spillage or runoff entering drains, sewers or watercourses.

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 locked up. Container must be kept tightly closed when not in use. Store away from the following materials: Strong oxidising agents. Strong acids. Organic Peroxide Explosive

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

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

DIPROPYLENEGLYCOL METHYLETHER

Long-term exposure limit (8-hour TWA): WEL 50 ppm 308 mg/m³

Sk

1-METHOXY-2-PROPANOL

Long-term exposure limit (8-hour TWA): WEL 100 ppm 375 mg/m³

Short-term exposure limit (15-minute): WEL 150 ppm 560 mg/m³

Sk

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through the skin.

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

DIPROPYLENEGLYCOL METHYLETHER (CAS: 34590-94-8)

Ingredient comments	WEL = Workplace Exposure Limits
DNEL	Workers - Dermal; Long term systemic effects: 283 mg/kg/day Workers - Inhalation; Long term systemic effects: 308 mg/kg Consumer - Dermal; Long term systemic effects: 121 mg/kg/day Consumer - Inhalation; Long term systemic effects: 37.2 mg/m ³ Consumer - Oral; Long term systemic effects: 36 mg/kg/day
PNEC	- Fresh water; 19 mg/l - marine water; 1.9 mg/l - Intermittent release; 190 mg/l - STP; 4168 mg/l - Sediment (Freshwater); 70.2 mg/kg/day - Sediment (Marinewater); 7.02 mg/kg/day - Soil; 2.74 mg/kg/day

ALCOHOLS C6 - C12 ETHOXYLATED (CAS: 68439-45-2)

Ingredient comments No exposure limits known for ingredient(s).

1-METHOXY-2-PROPANOL (CAS: 107-98-2)

DNEL	Workers - Dermal; Long term systemic effects: 183 mg/kg/day Workers - Inhalation; Long term systemic effects: 369 mg/m ³ Workers - Inhalation; Short term local effects: 553.5 mg/m ³ General population - Oral; Long term systemic effects: 33 mg/kg/day General population - Dermal; Long term systemic effects: 78 mg/kg/day General population - Inhalation; Long term systemic effects: 43.9 mg/m ³
-------------	--

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

PNEC	- Fresh water; 10 mg/l
	- marine water; 1 mg/l
	- Intermittent release; 100 mg/l
	- Sediment (Freshwater); 52.3 mg/kg
	- Sediment (Marinewater); 5.2 mg/kg
	- Soil; 4.59 mg/kg
	- STP; 100 mg/l

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES (CAS: 68424-85-1)

DNEL	Workers - Inhalation; Long term systemic effects: 3.96 mg/m ³
	Workers - Dermal; Long term systemic effects: 5.7 mg/kg/day
	Consumer - Inhalation; Long term systemic effects: 1.64 mg/m ³
	Consumer - Dermal; Long term systemic effects: 3.4 mg/kg/day
	Consumer - Oral; Long term systemic effects: 3.4 mg/kg/day

PNEC	- Fresh water; 0.0009 mg/l
	- marine water; 0.00009 mg/l
	- Intermittent release; 0.00016 mg/l
	- STP; 0.4 mg/l
	- Sediment (Freshwater); 0.267 mg/kg
	- Sediment (Marinewater); 0.0267 mg/kg
	- Soil; 7 mg/kg

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.

Hand protection

The most suitable glove should be chosen in consultation with the glove supplier/manufacture, 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. 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 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.

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

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 (or pale). Yellow.
Odour	Characteristic.
Odour threshold	No information available.
pH	pH (concentrated solution): 13
Melting point	No information available.
Pour Point	No information available.
Freezing Point	No information available.
Initial boiling point and range	> 35°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	1.05
Bulk density	No information available.
Solubility(ies)	No information available.
Partition coefficient	No information available.
Auto-ignition temperature	> 450°C
Decomposition Temperature	No information available.
Viscosity	150 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 No information required.

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

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.
------------	---

10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
-----------	---

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	Avoid excessive heat for prolonged periods of time.
---------------------	---

10.5. Incompatible materials

Materials to avoid	Strong oxidising agents. Strong acids. Organic Peroxide Explosive
--------------------	---

10.6. Hazardous decomposition products

Hazardous decomposition products	Thermal decomposition or combustion products may include the following substances: Chlorine. Aldehydes. Ketones. Acids - organic. Oxides of the following substances: Carbon. Nitrogen.
----------------------------------	---

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD ₅₀)	This product has low toxicity. Not determined. Information given is applicable to the major ingredient. LD ₅₀ > 5000 mg/kg, Oral, Rat Estimated value.
--------------------------------	---

ATE oral (mg/kg)	11,826.18
------------------	-----------

Acute toxicity - dermal

Notes (dermal LD ₅₀)	Not determined. Information given is applicable to the major ingredient. LD ₅₀ > 2000 mg/kg, Dermal, Rabbit Estimated value.
----------------------------------	---

Acute toxicity - inhalation

Notes (inhalation LC ₅₀)	Not determined.
--------------------------------------	-----------------

Skin corrosion/irritation

Skin corrosion/irritation	Causes severe burns.
---------------------------	----------------------

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.
-------------------------------	--

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

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 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 chemical burns in mouth, oesophagus and stomach.

Skin contact

Causes severe burns. May cause serious chemical burns to the skin.

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.

DIPROPYLENEGLYCOL METHYLETHER

Acute toxicity - oral

Notes (oral LD₅₀) This product has low toxicity. LD₅₀ > 5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 9,510.0

Species Rabbit

Notes (dermal LD₅₀) LD₅₀ 9150 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ 3.40447 mg/l, 7 hours, Vapour Rat

Skin corrosion/irritation

Animal data Not irritating. Rabbit OECD 404

Serious eye damage/irritation

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

Serious eye damage/irritation	May cause temporary eye irritation.
<u>Respiratory sensitisation</u>	
Respiratory sensitisation	No information available.
<u>Skin sensitisation</u>	
Skin sensitisation	- Human: Not sensitising.
<u>Germ cell mutagenicity</u>	
Genotoxicity - in vitro	Chromosome aberration: Negative.
<u>Carcinogenicity</u>	
Carcinogenicity	This information is based on test data from similar products No evidence of carcinogenicity in animal studies.
<u>Reproductive toxicity</u>	
Reproductive toxicity - fertility	No evidence of reproductive toxicity in animal studies. Two-generation study - , Inhalation, Rat
Reproductive toxicity - development	No evidence of reproductive toxicity in animal studies. Developmental toxicity: - : , Inhalation, Rat Negative.
<u>Specific target organ toxicity - single exposure</u>	
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
<u>Specific target organ toxicity - repeated exposure</u>	
STOT - repeated exposure	Prolonged or repeated exposure may cause the following adverse effects: Dizziness. Drowsiness. Narcotic effect.
<u>Aspiration hazard</u>	
Aspiration hazard	Based on available data the classification criteria are not met.
<u>Toxicokinetics</u>	
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	Skin irritation should not occur when used as recommended.
Eye contact	May cause temporary eye irritation.

ALCOHOLS C6 - C12 ETHOXYLATED

Acute toxicity - oral

Notes (oral LD₅₀) Harmful if swallowed.

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rat OECD 402

Acute toxicity - inhalation

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

Notes (inhalation LC₅₀) Not determined.

Skin corrosion/irritation

Animal data 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 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 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 Harmful if swallowed. May cause stomach pain or vomiting.

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.

1-METHOXY-2-PROPANOL

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ 3739 - 4277 mg/kg, Oral, Rat OECD 401

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rat OECD 402

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ 30.02 mg/l, 4 hours, Vapour Rat OECD 403

Skin corrosion/irritation

Skin corrosion/irritation Not irritating.

Serious eye damage/irritation

Serious eye damage/irritation May cause temporary eye irritation.

Respiratory sensitisation

Respiratory sensitisation No information available.

Skin sensitisation

Skin sensitisation Guinea pig maximization test (GPMT) - : Not sensitising.

Germ cell mutagenicity

Genotoxicity - in vitro Bacterial reverse mutation test: Negative.

Genotoxicity - in vivo Chromosome aberration: Negative. Mouse

Carcinogenicity

Carcinogenicity No evidence of carcinogenicity in animal studies. OECD 453

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 May cause drowsiness or dizziness.

Target organs Central nervous system

Specific target organ toxicity - repeated exposure

STOT - repeated exposure NOAEL 919 mg/kg, Oral, Rat NOAEL 3.7 mg/l, Inhalation, Rat NOAEL > 1000 mg/kg, Dermal, Rabbit

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 May cause respiratory irritation.

Ingestion May cause discomfort if swallowed.

Skin contact Skin irritation should not occur when used as recommended.

Eye contact May cause temporary eye irritation.

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES

Acute toxicity - oral

Acute toxicity oral (LD ₅₀ mg/kg)	426.0
Species	Rat
Notes (oral LD ₅₀)	Harmful if swallowed. LD ₅₀ 426 mg/kg, Oral, Rat
ATE oral (mg/kg)	426.0

Acute toxicity - dermal

Acute toxicity dermal (LD ₅₀ mg/kg)	3,412.5
Species	Rabbit
Notes (dermal LD ₅₀)	LD ₅₀ 3412 mg/kg, Dermal, Rabbit
ATE dermal (mg/kg)	3,412.5

Acute toxicity - inhalation

Notes (inhalation LC ₅₀)	Not determined.
--------------------------------------	-----------------

Skin corrosion/irritation

Animal data	Causes severe burns. Rabbit OECD 404
-------------	--------------------------------------

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 OECD 406
--------------------	--------------------------------------

Germ cell mutagenicity

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

Carcinogenicity

Carcinogenicity	No information available.
-----------------	---------------------------

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	No information available.
--------------------------	---------------------------

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

Aspiration hazard

Aspiration hazard Corrosive to the respiratory tract. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

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

Causes severe burns.

Eye contact

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

SECTION 12: Ecological information

Ecotoxicity Harmful to aquatic life with long lasting effects.

Ecological information on ingredients.

DIPROPYLENEGLYCOL METHYLETHER

Ecotoxicity

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

ALCOHOLS C6 - C12 ETHOXYLATED

Ecotoxicity

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

1-METHOXY-2-PROPANOL

Ecotoxicity

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

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES

Ecotoxicity

Very toxic to aquatic life with long lasting effects.

12.1. Toxicity

Toxicity Harmful to aquatic life with long lasting effects.

Ecological information on ingredients.

DIPROPYLENEGLYCOL METHYLETHER

Toxicity

Not considered toxic to fish.

Acute aquatic toxicity

Acute toxicity - fish

LC₅₀, 96 hour: > 1000 mg/l, Poecilia reticulata (Guppy)

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 1919 mg/l, Daphnia magna

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

Acute toxicity - aquatic plants ErC50, 96 hour: > 969 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - microorganisms EC10, 18 hours: 4168 mg/l,

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEC, 22 days: 0.5 mg/l, Daphnia magna
LOEC, 22 days: 0.5 mg/l, Daphnia magna

ALCOHOLS C6 - C12 ETHOXYLATED

Toxicity No information available.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 10 - 100 mg/l, Fish

Acute toxicity - aquatic plants EC₅₀, 72 hours: > 10 - 100 mg/l, Algae

1-METHOXY-2-PROPANOL

Toxicity Not considered toxic to fish.

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 6812 mg/l, Leuciscus idus (Golden orfe)
LC₅₀, 96 hours: >= 1000 mg/l, Oncorhynchus mykiss (Rainbow trout)
LC₅₀, 96 hours: 20800 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates LC₅₀, 48 hours: 21100 - 25900 mg/l, Daphnia magna

Acute toxicity - aquatic plants ErC50, 7 days: > 1000 mg/l, Pseudokirchneriella subcapitata

Acute toxicity - microorganisms IC₅₀, 3 hour: > 1000 mg/l,
OECD 209

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES

Toxicity Very toxic to aquatic life with long lasting effects.

Acute aquatic toxicity

LE(C)₅₀ 0.01 < L(E)C50 ≤ 0.1

M factor (Acute) 10

Acute toxicity - fish LC₅₀, 96 hours: 0.28 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 0.016 mg/l, Daphnia magna

Acute toxicity - aquatic plants ErC50, 96 hour: 0.049 mg/l, Algae

Acute toxicity - microorganisms EC₅₀, 3 hours: 7.75 mg/l, Activated sludge
OECD 209

Chronic aquatic toxicity

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

NOEC	0.01 < NOEC ≤ 0.1
Degradability	Non-rapidly degradable
M factor (Chronic)	1
Chronic toxicity - fish early life stage	NOEC, 34 day: 0.032 mg/l, Pimephales promelas (Fat-head Minnow)
Chronic toxicity - aquatic invertebrates	NOEC, 21 day: 0.0042 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.

DIPROPYLENEGLYCOL METHYLETHER

Persistence and degradability	The substance is readily biodegradable.
Biodegradation	- Degradation (%) 75%: 28 days

ALCOHOLS C6 - C12 ETHOXYLATED

Persistence and degradability	The substance is readily biodegradable.
Biodegradation	- Degradation 74%: 28 days OECD 301D

1-METHOXY-2-PROPANOL

Persistence and degradability	The product is readily biodegradable.
Biodegradation	- Degradation 96%: 28 day

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES

Persistence and degradability	The product is readily biodegradable.
Biodegradation	- Degradation > 95.5%: 28 days

12.3. Bioaccumulative potential

Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	No information available.

Ecological information on ingredients.

DIPROPYLENEGLYCOL METHYLETHER

Bioaccumulative potential	Bioaccumulation is unlikely.
Partition coefficient	log Pow: 0.006

ALCOHOLS C6 - C12 ETHOXYLATED

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

Bioaccumulative potential The product is not bioaccumulating. BCF: 4, Fish Estimated value.

Partition coefficient Pow: 3.77 - 5.36

1-METHOXY-2-PROPANOL

Bioaccumulative potential Bioaccumulation is unlikely. BCF: < 2, Fish

Partition coefficient log Pow: 0.37

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES

Bioaccumulative potential BCF: 33.3, Lepomis macrochirus (Bluegill)

Partition coefficient log Pow: < 3 Estimated value.

12.4. Mobility in soil

Mobility No information available.

Ecological information on ingredients.

DIPROPYLENEGLYCOL METHYLEETHER

Mobility The product is soluble in water.

ALCOHOLS C6 - C12 ETHOXYLATED

Mobility The product is soluble in water.

1-METHOXY-2-PROPANOL

Mobility No information available.

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES

Mobility No information available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.

DIPROPYLENEGLYCOL METHYLEETHER

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

ALCOHOLS C6 - C12 ETHOXYLATED

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

1-METHOXY-2-PROPANOL

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

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES

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

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.

DIPROPYLENEGLYCOL METHYLETHER

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.

ALCOHOLS C6 - C12 ETHOXYLATED

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.

1-METHOXY-2-PROPANOL

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.

QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES

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)	3267
UN No. (IMDG)	3267
UN No. (ICAO)	3267

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

UN No. (ADN) 3267

14.2. UN proper shipping name

Proper shipping name (ADR/RID) CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. ((C6-C12) ALKYLALCOHOL ETHOXYLATE, QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES)

Proper shipping name (IMDG) CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. ((C6-C12) ALKYLALCOHOL ETHOXYLATE, QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES)

Proper shipping name (ICAO) CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. ((C6-C12) ALKYLALCOHOL ETHOXYLATE, QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES)

Proper shipping name (ADN) CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. ((C6-C12) ALKYLALCOHOL ETHOXYLATE, QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKYLDIMETHYL, CHLORIDES)

14.3. Transport hazard class(es)

ADR/RID class 8

ADR/RID classification code C7

ADR/RID label 8

IMDG class 8

ICAO class/division 8

ADN class 8

Transport labels



14.4. Packing group

ADR/RID packing group II

IMDG packing group II

ICAO packing group II

ADN packing group II

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user

EmS F-A, S-B

ADR transport category 2

Emergency Action Code 2X

Hazard Identification Number (ADR/RID) 80

Tunnel restriction code (E)

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

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
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: 3

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories

EU - EINECS/ELINCS

All the ingredients are listed or exempt.

Canada - DSL/NDSL

All the ingredients are listed or exempt.

US - TSCA

All the ingredients are listed or exempt.

Australia - AICS

All the ingredients are listed or exempt.

China - IECSC

All the ingredients are listed or exempt.

Philippines – PICCS

All the ingredients are listed or exempt.

New Zealand - NZIOC

All the ingredients are listed or exempt.

SECTION 16: Other information

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

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.

Classification procedures according to Regulation (EC) 1272/2008

Skin Corr. 1 - H314: On basis of test data. Eye Dam. 1 - H318: On basis of test data. Aquatic Chronic 3 - H412: Calculation method.

Revision comments

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

Revision date

15/11/2022

DOWSIL DS 1000 AQUEOUS SILICONE CLEANER

Version number	7.000
Supersedes date	09/05/2022
SDS number	13434
SDS status	Approved.
Hazard statements in full	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
Signature	Lisa Bland

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.