

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

Supersedes date 26-Jul-2024

Revision date 12-Jun-2025

Revision Number 8

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

1.1. Product identifier

Product Code(s) 52514

Safety data sheet number 52514

Product Name DOWSIL HV 496 EMULSION

Synonyms DOW CORNING HV 496 EMULSION

Pure substance/mixture Mixture

Contains BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDS. WITH TRIETHANOLAMINE

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

Recommended use Formulation or re-packing: Formulation & (re)packing of substances and mixtures.
Industrial use
Professional use
Consumer use
Textiles
Leather and paper industry
Cleaning agent

1.3. Details of the supplier of the safety data sheet

Supplier

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

For further information, please contact

E-mail address SDS.EMEA@univarsolutions.com

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

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

2.2. Label elements

Contains BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDS. WITH TRIETHANOLAMINE



Signal word

Danger

Hazard statements

H315 - Causes skin irritation

H318 - Causes serious eye damage

H412 - Harmful to aquatic life with long lasting effects

EUH208 - Contains GLUTARAL. May produce an allergic reaction.

Precautionary statements

P261 - Avoid breathing spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

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

P273 - Avoid release to the environment

P280 - Wear protective gloves and eye/face protection

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

P310 - Immediately call a POISON CENTER or doctor

Unknown aquatic toxicity

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

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
BENZENESULFONIC ACID,	>= 0.5 - <= 5.6 %	939-464-2	-	Aquatic Chronic 3 (H412)	Skin Corr. 1C:: C>=50%	-	-

4-C10-13-SEC-ALKYL DERIVS., COMPDS. WITH TRIETHANOLAMINE 121617-08-1				Skin Corr. 1C (H314) Eye Dam. 1 (H318)	Skin Irrit. 2:: 1%<C<50% Eye Dam. 1:: C>=3% Eye Irrit. 2:: 1%<C<3%		
ISOTRIDECANOL, ETHOXYLATED 69011-36-5	>= 2.0 - <= 2.5 %	-	-	Acute Tox. 4 (H302) Eye Dam. 1 (H318)	-	-	-
DODECAMETHYLCYCLOHEXASILOXANE 540-97-6	>= 0.02 - <= 0.4 %	208-762-8	-	Not Classified	-	-	-
GLUTARAL 111-30-8	>= 0.065 - <= 0.088 %	203-856-5 (605-022-00-X)	-	Aquatic Chronic 2 (H411) Skin Corr. 1B (H314) Aquatic Acute 1 (H400) Skin Sens. 1A (H317) Resp. Sens. 1 (H334) Acute Tox. 2 (H330) STOT SE 3 (H335) Acute Tox. 3 (H301) EUH071	STOT SE 3; H335:: 0.5%<C5% EUH071 C>=5%	1	1
OCTAMETHYLCYCLOTETRAILOXANE 556-67-2	>= 0.017 - <= 0.09 %	209-136-7 (014-018-00-1)	-	Flam. Liq. 3 (H226) Aquatic Chronic 1 (H410) Repr. 2 (H361f)	-	-	10

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

Additional information

Note: Glutaral: Formulations containing $0.5\% \leq C < 5\%$ Glutaraldehyde shall be classified STOT SE 3, H335. For formulations containing $C \geq 5\%$ Glutaraldehyde, EUH071 shall be applied.

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

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	First aid personnel should wear appropriate protective equipment during any rescue. Use personal protection recommended in Section 8.
Inhalation	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Get medical attention if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.
Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if symptoms occur. Wash contaminated clothing before reuse. Ensure that eyewash stations and safety showers are close to the workstation location.
Ingestion	Rinse mouth thoroughly with water. Do NOT induce vomiting. Get medical attention if

symptoms occur.

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

Symptoms	The product contains a sensitising substance which may provoke an allergic reaction among sensitive individuals. May cause an allergic skin reaction.
Eyes	Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated. Causes eye burns.
Dermal	Causes skin irritation.

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

Note to doctors	Treat symptomatically. Chemical eye burns may require extended irrigation. Chemical burns must be treated promptly by a physician. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	When heated and in case of fire, toxic vapours/gases may be formed. Exposure to combustion products may be a hazard to health.
Hazardous combustion products	Carbon oxides. Silicon oxides. Nitrogen oxides (NOx). Oxides of sulphur. Formaldehyde.

5.3. Advice for firefighters

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

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours.
Other information	Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	Prevent further leakage or spillage if safe to do so.
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6.3. Methods and material for containment and cleaning up

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

6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See section 13 for more information.
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SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Advice on safe handling	Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. Do not swallow. Keep container closed when not in use. Avoid spilling. Avoid release to the environment. Handle in accordance with good industrial hygiene and safety practice. Empty containers retain product residue and can be hazardous.
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General hygiene considerations	Wash hands before breaks and immediately after handling the product.
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7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed in a dry and well-ventilated place. Keep in properly labelled containers. Store away from the following materials. Strong oxidising agents.
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7.3. Specific end use(s)**Specific use(s)**

See section 1 for more information.

Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.
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SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure Limits**

Chemical name	United Kingdom
GLUTARAL 111-30-8	TWA: 0.05 ppm TWA: 0.2 mg/m ³ STEL: 0.05 ppm STEL: 0.2 mg/m ³ Sen+

Biological occupational exposure limits	This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.
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Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
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Chemical name	Oral	Dermal	Inhalation
BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDS. WITH TRIETHANOLAMINE 121617-08-1		5.29 mg/kg bw/day [4] [6]	4.1 mg/m ³ [4] [6]
ISOTRIDECANOL, ETHOXYLATED 69011-36-5		2080 mg/kg bw/day [4] [6]	294 mg/m ³ [4] [6]
DODECAMETHYLCYCLOHEXASILO XANE 540-97-6			11 mg/m ³ [4] [6] 1.22 mg/m ³ [5] [6] 6.1 mg/m ³ [5] [7]
GLUTARAL 111-30-8		6.25 mg/kg bw/day [4] [6]	
OCTAMETHYLCYCLOTETRASILOXA NE 556-67-2			73 mg/m ³ [4] [6] 73 mg/m ³ [5] [6]

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

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDS. WITH TRIETHANOLAMINE 121617-08-1	0.58 mg/kg bw/day [4] [6]	1.2 mg/kg bw/day [4] [6]	1.01 mg/m ³ [4] [6]
ISOTRIDECANOL, ETHOXYLATED 69011-36-5	25 mg/kg bw/day [4] [6]		87 mg/m ³ [4] [6]
DODECAMETHYLCYCLOHEXASILO XANE 540-97-6	1.7 mg/kg bw/day [4] [6] 1.7 mg/kg bw/day [4] [7]		2.7 mg/m ³ [4] [6] 0.3 mg/m ³ [5] [6] 1.5 mg/m ³ [5] [7]
GLUTARAL 111-30-8	0.07 mg/kg bw/day [4] [6]		
OCTAMETHYLCYCLOTETRASILOXA NE 556-67-2	3.7 mg/kg bw/day [4] [6]		13 mg/m ³ [4] [6] 13 mg/m ³ [5] [6]

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

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDS. WITH TRIETHANOLAMINE 121617-08-1	0.268 mg/l	0.268 mg/l	0.027 mg/l		
ISOTRIDECANOL, ETHOXYLATED	0.074 mg/L	0.015 mg/L	0.0074 mg/L		

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
69011-36-5					
GLUTARAL 111-30-8	0.0025 mg/L	0.006 mg/L	0.00025 mg/L		
OCTAMETHYLCYCLOTE TRASILOXANE 556-67-2	0.0015 mg/L		0.00015 mg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDS. WITH TRIETHANOLAMINE 121617-08-1	8.1 mg/kg dry weight (d.w.)	8.1 mg/kg dry weight (d.w.)	7 mg/l	35 mg/kg dry weight (d.w.)	
ISOTRIDECANOL, ETHOXYLATED 69011-36-5	0.604 mg/kg sediment dw	0.0604 mg/kg sediment dw	1.4 mg/L	0.1 mg/kg soil dw	
DODECAMETHYLCYCLO HEXASILOXANE 540-97-6	13 mg/kg sediment dw	1.3 mg/kg sediment dw	1 mg/L		66.7 mg/kg food
GLUTARAL 111-30-8	0.091 mg/kg sediment dw	0.009 mg/kg sediment dw	0.8 mg/L	0.18 mg/kg soil dw	
OCTAMETHYLCYCLOTE TRASILOXANE 556-67-2	3 mg/kg sediment dw	0.3 mg/kg sediment dw	10 mg/L	0.54 mg/kg soil dw	41 mg/kg food

8.2. Exposure controls

Engineering controls

No information available.

Personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.

Hand protection

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

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
	Wear protective butyl rubber gloves	> 0.35 mm	> 240 minutes
	Wear protective Neoprene™ gloves	> 0.35 mm	> 240 minutes
	Wear protective nitrile rubber gloves	> 0.35 mm	> 240 minutes
	Ethyl vinyl alcohol laminate ("EVAL")	> 0.35 mm	> 240 minutes
	Polyvinyl chloride (PVC)	> 0.35 mm	> 240 minutes
	Natural rubber (Lapren)	> 0.35 mm	> 240 minutes

Skin and body protection

Wear appropriate clothing to prevent reasonably probable skin contact.

Respiratory protection

Use appropriate respiratory protection.

Recommended filter type: Organic gases and vapours filter conforming to EN 14387. Type AP2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Liquid
Colour	Off-white
Odour	Characteristic.
Odour threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point		Not determined.
Initial boiling point and boiling range	> 35 °C	@ 760 mmHg.
Flammability		No information available.
Flammability Limit in Air		No information available.
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point	> 101.1 °C	Pensky-Martens closed cup.
Autoignition temperature		No information available.
Decomposition temperature		No information available.
pH	6.5 - 8.5	
pH (as aqueous solution)		No information available.
Kinematic viscosity		No information available.
Dynamic viscosity	20 mPa s	
Water solubility		Not determined.
Solubility(ies)		No information available.
Partition coefficient		Not determined.
Vapour pressure		No information available.
Relative density	1.00	
Bulk density		No information available
Liquid Density	No information available	No information available
Relative vapour density		No information available.
Particle characteristics		Not applicable.
Particle Size	No information available	
Particle Size Distribution	No information available	
Explosive properties	Not considered to be explosive.	
Oxidising properties	Does not meet the criteria for classification as oxidising	

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No known effects under normal use conditions.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Silicon oxides. Nitrogen oxides (NOx). Oxides of sulphur. Formaldehyde.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on likely routes of exposure

Product Information

Inhalation	Inhalation of vapours in high concentration may cause irritation of respiratory system.
Eye contact	Causes serious eye damage. May cause permanent damage if eye is not immediately irrigated. Causes eye burns.
Skin contact	The product contains a sensitising substance which may provoke an allergic reaction among sensitive individuals. May cause an allergic skin reaction. Causes skin irritation. Brief contact may cause skin irritation with local redness.
Ingestion	May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms

Acute toxicity

Numerical measures of toxicity

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

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

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDs. WITH TRIETHANOLAMINE	= 2925 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
ISOTRIDECANOL, ETHOXYLATED	> 500 - 2000 mg/kg (Rat)	= 5960 mg/kg (Rabbit)	> 1.6 mg/L (Rat) 4 h
DODECAMETHYLCYCLOHEX ASILOXANE	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-

GLUTARAL	200 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	0.28 - 0.35 mg/l (Rat) 4h
OCTAMETHYLCYCLOTETRASILOXANE	> 4800 mg/kg (Rat)	> 2400 mg/kg (Rat)	= 36 mg/L (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Skin corrosion/irritation**

Causes skin irritation. Brief contact may cause skin irritation with local redness.

BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDS. WITH TRIETHANOLAMINE (121617-08-1)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Causes severe burns Symptoms may include pain, severe local redness and tissue damage.

ISOTRIDECANOL, ETHOXYLATED (69011-36-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Brief contact may cause slight skin irritation with local redness.

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

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

GLUTARAL (111-30-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
Similar to OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit				Causes severe burns Symptoms may include pain, severe local redness and tissue damage.

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

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

Serious eye damage/eye irritation

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

BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDS. WITH TRIETHANOLAMINE (121617-08-1)

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

ISOTRIDECANOL, ETHOXYLATED (69011-36-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
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					Causes serious eye damage May cause permanent damage if eye is not immediately irrigated. Causes eye burns
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DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

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

GLUTARAL (111-30-8)

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

OCTAMETHYLCYCLOTETRAILOXANE (556-67-2)

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

Respiratory or skin sensitisation

The product contains a sensitising substance which may provoke an allergic reaction among sensitive individuals. May cause an allergic skin reaction.

Method	Species	Exposure route	Results
	Guinea pig	Dermal	Sensitising
	Mouse	Dermal	Sensitising

BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDS. WITH TRIETHANOLAMINE (121617-08-1)

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

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

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

GLUTARAL (111-30-8)

Method	Species	Exposure route	Results
			May cause allergic respiratory response in a small proportion of individuals

OCTAMETHYLCYCLOTETRAILOXANE (556-67-2)

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

Germ cell mutagenicity

No information available.

Component Information

BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDS. WITH TRIETHANOLAMINE (121617-08-1)

Method	Species	Results
	in vitro	Negative

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

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

GLUTARAL (111-30-8)

Method	Species	Results
	in vitro	In vitro genetic toxicity studies were negative in some cases and positive in other cases.

OCTAMETHYLCYCLOTETRAILOXANE (556-67-2)

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

Carcinogenicity

No information available.

Component Information

BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDS. WITH TRIETHANOLAMINE (121617-08-1)

Method	Species	Results
		Did not cause cancer in laboratory animals.

GLUTARAL (111-30-8)

Method	Species	Results
	Animal Data.	Not Carcinogenic

OCTAMETHYLCYCLOTETRAILOXANE (556-67-2)

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

Reproductive toxicity

No information available.

Chemical name	United Kingdom
OCTAMETHYLCYCLOTETRAILOXANE	Repr. 2

BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDS. WITH TRIETHANOLAMINE (121617-08-1)

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

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

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

GLUTARAL (111-30-8)

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

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

Method	Species	Results
		Suspected of damaging fertility

STOT - single exposure

No information available.

BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDS. WITH TRIETHANOLAMINE (121617-08-1)

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

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

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

GLUTARAL (111-30-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
		Inhalation			May cause respiratory irritation Corrosive respiratory tract

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

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

STOT - repeated exposure No information available.

Component Information

BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDS. WITH TRIETHANOLAMINE (121617-08-1)

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

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

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

GLUTARAL (111-30-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Antiemetic (Vomiting and Nausea)

OCTAMETHYLCYCLOTETRAASILOXANE (556-67-2)

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

Aspiration hazard Not determined.

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Harmful to aquatic life with long lasting effects.

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

BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDS. WITH TRIETHANOLAMINE (121617-08-1)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
Acute toxicity	Brachydanio rerio	LC50	5.7 mg/L	96 hours	
Acute toxicity	Daphnia magna	LC50	10.6 mg/L	48 hours	
Acute toxicity	Desmodesmus subspicatus	ErC50	> 56.2 mg/L	72 hours	
Acute toxicity	Desmodesmus subspicatus	NOEC	3.4 mg/L	72 hours	
Bacteria toxicity	Pseudomonas	EC10	55 mg/L	18 hours	

	putida				
Chronic toxicity	Lepomis macrochirus	NOEC	1 mg/L	28 days	
Chronic toxicity	Daphnia magna	NOEC	2.8 mg/L	21 days	

ISOTRIDEKANOL, ETHOXYLATED (69011-36-5)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
Acute toxicity	Oncorhynchus mykiss (rainbow trout)	EC50	> 1 - 10 mg/L	48 hours	
Acute toxicity	Algae	EC50	> 1 - 10 mg/L	48 hours	
Acute toxicity	Algae	EC50	> 1 - 10 mg/L	72 hours	

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

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

GLUTARAL (111-30-8)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
Acute toxicity	Cyprinodon variegatus	LC50	32 mg/L	96 hours	
Acute toxicity	copepod Acartia tonsa	LC50	3 mg/L	48 hours	
Acute toxicity	Desmodesmus subspicatus	ErC50	0.6 mg/L	72 hours	
Acute toxicity	Desmodesmus subspicatus	NOEC	0.025 mg/L	72 hours	
Acute toxicity	Skeletonema costatum	ErC50	0.61 mg/L	72 hours	
Acute toxicity	Skeletonema costatum	NOEC	0.071 mg/L	72 hours	
Chronic toxicity	Oncorhynchus mykiss (rainbow trout)	NOEC	1 mg/L	62 days	
Chronic toxicity	Daphnia magna	NOEC	0.12 mg/L	21 days	

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
Acute toxicity	Oncorhynchus mykiss (rainbow trout)	LC50	> 0.022 mg/L	96 hours	
Acute toxicity	Cyprinodon variegatus	LC50	> 0.0063 mg/L	14 days	
Acute toxicity	Mysidopsis bahia	EC50	> 0.0091 mg/L	96 hours	
Acute toxicity	Daphnia magna	EC50	> 0.015 mg/L	48 hours	
Acute toxicity	Pseudokirchneriella subcapitata	ErC50	> 0.022 mg/L	96 hours	
Acute toxicity	Pseudokirchneriella subcapitata	EC10	>= 0.022 mg/L	96 hours	
Chronic aquatic toxicity	Oncorhynchus mykiss (rainbow trout)	NOEC	>= 0.0044 mg/L	93 days	
Chronic aquatic toxicity	Daphnia magna	NOEC	0.0079 mg/L	21 days	

12.2. Persistence and degradability

Persistence and degradability No information available.

BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDS. WITH TRIETHANOLAMINE (121617-08-1)

Method	Exposure time	Value	Results
OECD Test No. 301E: Ready Biodegradability: Modified OECD Screening Test (TG 301 E) or Equivalent.	28 days	Biodegradation 100%	Readily biodegradable

ISOTRIDECANOL, ETHOXYLATED (69011-36-5)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	28 days	Biodegradation > 60 %	Readily biodegradable

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	28 days	Biodegradation 57%	Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

GLUTARAL (111-30-8)

Method	Exposure time	Value	Results
OECD Test No. 301A: Ready Biodegradability: DOC Die-Away Test (TG 301 A)	9 days	Biodegradation 73 %	Readily biodegradable
OECD Test No. 306: Biodegradability in Seawater	28 days	Biodegradation 73 %	Readily biodegradable

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

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

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDS. WITH TRIETHANOLAMINE	1.5
DODECAMETHYLCYCLOHEXASILOXANE	8.87
GLUTARAL	-0.333
OCTAMETHYLCYCLOTETRASILOXANE	6.49

12.4. Mobility in soil

Mobility in soil Not determined.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

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

Chemical name	PBT and vPvB assessment
BENZENESULFONIC ACID, 4-C10-13-SEC-ALKYL DERIVS., COMPDS. WITH TRIETHANOLAMINE	The substance is not PBT / vPvB
ISOTRIDECANOL, ETHOXYLATED	The substance is not PBT / vPvB
DODECAMETHYLCYCLOHEXASILOXANE	vPvB substance
GLUTARAL	The substance is not PBT / vPvB
OCTAMETHYLCYCLOTETRAILOXANE	PBT substance vPvB substance

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Waste from residues/unused products**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Do not reuse empty containers.

SECTION 14: Transport information**IATA**

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

IMDG

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

RID

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

ADR

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

SECTION 15: Regulatory information

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

National regulations

Authorisations and/or restrictions on use:

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

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

Product restricted per REACH Annex XVII: 3

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

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Named dangerous substances per COMAH Regulations 2015 (as amended)

Not applicable

The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended)

Chemical name	The Biocidal Products Regulations 2001 (as amended)
GLUTARAL - 111-30-8	Product-type 2: Disinfectants and algicides not intended for direct application to humans or animals Product-type 3: Veterinary hygiene Product-type 4: Food and feed area Product-type 6: Preservatives for products during storage Product-type 11: Preservatives for liquid-cooling and processing systems Product-type 12: Slimicides

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

Not applicable

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

Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status

IECSC	Contact supplier for inventory compliance status
KECI	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:

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

15.2. Chemical safety assessment

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

SECTION 16: Other information**Key or legend to abbreviations and acronyms used in the safety data sheet****Full text of H-Statements referred to under section 3**

EUH071 - Corrosive to the respiratory tract
 H301 - Toxic if swallowed
 H302 - Harmful if swallowed
 H314 - Causes severe skin burns and eye damage
 H317 - May cause an allergic skin reaction
 H318 - Causes serious eye damage
 H330 - Fatal if inhaled
 H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
 H335 - May cause respiratory irritation
 H400 - Very toxic to aquatic life
 H411 - Toxic to aquatic life with long lasting effects
 H412 - Harmful to aquatic life with long lasting effects

Legend

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

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers		

Revision Note **SDS sections updated 1 3 4 5 7 8 9 11 12 15 16**

Classification procedure

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

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

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

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

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

Disclaimer

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

End of Safety Data Sheet