

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

Supersedes date 27-Apr-2021

Revision date 04-May-2024

Revision Number 7

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

1.1. Product identifier

Product Code(s) 11192
Safety data sheet number 11192
Product Name DOWSIL 84 ADDITIVE
Synonyms DC 84 ADDITIVE, DOW CORNING 84 ADDITIVE
Pure substance/mixture Mixture

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

Recommended use 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
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

2.2. Label elements

Hazard statements

EUH210 - Safety data sheet available on request

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)
2-AMINO-2-METHYLPROPANOL 124-68-5	>= 1.24 - <= 1.96 %	204-709-8 (603-070-00-6)	-	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Aquatic Chronic 3 (H412)	-	-	-
OCTAMETHYLCYCLOTETRA- SILOXANE 556-67-2	>= 0.52 - <= 1.14 %	209-136-7 (014-018-00-1)	-	Flam. Liq. 3 (H226) Aquatic Chronic 1 (H410) Repr. 2 (H361f)	-	-	10
DECAMETHYLCYCLOPENTA- SILOXANE 541-02-6	>= 0.13 - <= 0.44 %	208-764-9	01-3283125615-4-XXX X	-	-	-	-
DODECAMETHYLCYCLOHEXA- SILOXANE 540-97-6	>= 0.05 - <= 0.2 %	208-762-8	-	-	-	-	-
DIOCTYL TIN DILAURATE 3648-18-8	>= 0.08 - <= 0.13 %	222-883-3 (050-031-00-9)	-	Repr. 1B (H360D) STOT RE 1 (H372)	-	-	-

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

Chemical name	CAS No	SVHC candidates
OCTAMETHYLCYCLOTETRA- SILOXANE	556-67-2	X
DECAMETHYLCYCLOPENTA- SILOXANE	541-02-6	X
DODECAMETHYLCYCLOHEXA- SILOXANE	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. Ensure that eyewash stations and safety showers are close to the workstation location.
Ingestion	Rinse mouth thoroughly with water. Do not induce vomiting without medical advice. Get medical attention if symptoms occur.

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

Eyes	May cause temporary eye irritation.
Dermal	May cause irritation. Redness. Dryness and/or cracking.

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

Note to doctors	Treat symptomatically.
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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. Fire burns more vigorously than would be expected.
Hazardous combustion products	Carbon oxides. Silicon oxides. Nitrogen oxides (NOx). 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. Remove all sources of ignition. Follow precautions for safe handling described in this safety data sheet.
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For emergency responders Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions See Section 12 for additional Ecological Information.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections See section 8 for more information. See section 13 for more information.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling Ensure adequate ventilation. Use personal protection recommended in Section 8. Avoid contact with skin, eyes and inhalation of vapours. Do not swallow. Keep container closed when not in use. Avoid spilling. Avoid release to the environment. Handle in accordance with good industrial hygiene and safety practice. Empty containers retain product residue and can be hazardous.

General hygiene considerations Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed in a dry and well-ventilated place. Keep in properly labelled containers. Store locked up. Store away from the following materials. Strong oxidising agents. Organic peroxide. Explosives. Gases.

7.3. Specific end use(s)

Specific use(s)
See section 1 for more information.

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
2-AMINO-2-METHYLPROPANOL 124-68-5		7.3 mg/kg bw/day [4] [6]	6.5 mg/m ³ [4] [6]
OCTAMETHYLCYCLOTETRASIOXANE 556-67-2			73 mg/m ³ [4] [6] 73 mg/m ³ [5] [6]
DECAMETHYLCYCLOPENTASIOXANE 541-02-6			97.3 mg/m ³ [4] [6] 24.2 mg/m ³ [5] [6]
DODECAMETHYLCYCLOHEXASIOXANE 540-97-6			11 mg/m ³ [4] [6] 1.22 mg/m ³ [5] [6] 6.1 mg/m ³ [5] [7]
DIOCTYL TIN DILAURATE 3648-18-8			0.0035 mg/m ³ [4] [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
2-AMINO-2-METHYLPROPANOL 124-68-5	0.46 mg/kg bw/day [4] [6]	37 mg/kg bw/day [4] [6]	1.6 mg/m ³ [4] [6]
OCTAMETHYLCYCLOTETRASIOXANE 556-67-2	3.7 mg/kg bw/day [4] [6]		13 mg/m ³ [4] [6] 13 mg/m ³ [5] [6]
DECAMETHYLCYCLOPENTASIOXANE 541-02-6	5 mg/kg bw/day [4] [6]		17.3 mg/m ³ [4] [6] 4.3 mg/m ³ [5] [6]
DODECAMETHYLCYCLOHEXASIOXANE 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]
DIOCTYL TIN DILAURATE 3648-18-8	0.0005 mg/kg bw/day [4] [6]		0.0009 mg/m ³ [4] [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
2-AMINO-2-METHYLPROPANOL 124-68-5	0.188 mg/L	1.88 mg/L	0.0188 mg/L		
OCTAMETHYLCYCLOTETRASIOXANE 556-67-2	0.0015 mg/L		0.00015 mg/L		
DECAMETHYLCYCLOPENTASIOXANE	>0.0012 mg/l		>0.00012 mg/l		

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
541-02-6					
DIOCTYLtin DILAURATE 3648-18-8	0.0018 µg/L	0.018 µg/L	0.00018 µg/l		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
2-AMINO-2-METHYLPRO PANOL 124-68-5	0.71 mg/kg sediment dw	0.071 mg/kg sediment dw	10 mg/L	0.03 mg/kg soil dw	
OCTAMETHYLCYCLOTE TRASIOXANE 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
DECAMETHYLCYCLOPE NTASIOXANE 541-02-6	11 mg/kg sediment dw	1.1 mg/kg sediment dw	10 mg/L	2.54 mg/kg soil dw	16 mg/kg food
DODECAMETHYLCYCLO HEXASIOXANE 540-97-6	13 mg/kg sediment dw	1.3 mg/kg sediment dw			66.7 mg/kg food
DIOCTYLtin DILAURATE 3648-18-8	0.02798 mg/kg sediment dw	0.002798 mg/kg sediment dw	100 mg/L	0.005593 mg/kg	100 mg/l

8.2. Exposure controls

Engineering controls No information available.

Personal protective equipment

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

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

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
	Wear protective butyl rubber gloves	> 0.35 mm	> 120 minutes
	Wear protective Neoprene™ gloves	> 0.35 mm	> 120 minutes
	Wear protective nitrile rubber gloves	> 0.35 mm	> 120 minutes
	Ethyl vinyl alcohol laminate ("EVAL")	> 0.35 mm	> 120 minutes
	Polyvinyl chloride (PVC)	> 0.35 mm	> 120 minutes
	Rubber (natural, latex)	> 0.35 mm	> 120 minutes
Avoid contact with:	Polyvinyl alcohol (PVA)		

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

Respiratory protection Use appropriate respiratory protection.
Organic gases and vapours filter conforming to EN 14387. Type AP2.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state	Liquid
Appearance	Liquid
Colour	white
Odour	Amine. Mild.
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	> 100 °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	> 100 °C	Pensky-Martens closed cup.
Autoignition temperature		No information available.
Decomposition temperature		No information available.
pH		No information available.
pH (as aqueous solution)		No information available.
Kinematic viscosity	500 cSt	@ 25 °C.
Dynamic viscosity		No information available.
Water solubility		Not determined.
Solubility(ies)		No information available.
Partition coefficient		Not determined.
Vapour pressure		No information available.
Relative density	1.10	
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.
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10.2. Chemical stability

Stability	Stable under normal conditions.
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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). 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 May cause temporary eye irritation.

Skin contact May cause irritation. Redness. Dryness and/or cracking.

Ingestion May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Prolonged contact may cause redness and irritation.

Acute toxicity

Numerical measures of toxicity

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

> 5000 mg/kg > 2000 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2-AMINO-2-METHYLPROPANOL	= 2900 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
OCTAMETHYLCYCLOTETRAILOXANE	> 4800 mg/kg (Rat)	> 2400 mg/kg (Rat)	= 36 mg/L (Rat) 4 h
DECAMETHYLCYCLOPENTASILOXANE	> 24134 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	= 8.67 mg/L (Rat) 4 h
DODECAMETHYLCYCLOHEXASILOXANE	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
DIOCTYLTIN DILAURATE	> 2000 mg/kg (Rat)	>= 2000 mg/kg (Rat)	-

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

Skin corrosion/irritation May cause skin irritation. Redness. Dryness and/or cracking.

2-AMINO-2-METHYLPROPANOL (124-68-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Causes skin irritation Prolonged contact may cause severe skin burns. Symptoms may include pain, severe local redness, swelling, and tissue damage. Not classified as corrosive to the skin according to EC guidelines

OCTAMETHYLCYCLOTETRAILOXANE (556-67-2)

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

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

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

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

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

DIOCTYL TIN DILAUATE (3648-18-8)

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

Serious eye damage/eye irritation May cause temporary eye irritation.

2-AMINO-2-METHYLPROPANOL (124-68-5)

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

OCTAMETHYLCYCLOTETRAILOXANE (556-67-2)

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

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

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

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

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

DIOCTYL TIN DILAUATE (3648-18-8)

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

					eye irritation
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Respiratory or skin sensitisation Not a skin sensitiser.

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

2-AMINO-2-METHYLPROPANOL (124-68-5)

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

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

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

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

Method	Species	Exposure route	Results
	Mouse	Dermal	Not a skin sensitiser

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

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

DIOCTYLtin DILAURATE (3648-18-8)

Method	Species	Exposure route	Results
	Mouse	Dermal	Not a skin sensitiser

Germ cell mutagenicity No information available.

Component Information

2-AMINO-2-METHYLPROPANOL (124-68-5)

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

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

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

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

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

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

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

DIOCTYLtin DILAURATE (3648-18-8)

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

		animal experiments
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Carcinogenicity No information available.

Component Information

OCTAMETHYLCYCLOTETRASILOXANE (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.

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

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

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

Method	Species	Results
		Did not cause cancer in laboratory animals.

Reproductive toxicity No information available.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	United Kingdom
OCTAMETHYLCYCLOTETRASILOXANE	Repr. 2
DIOCTYL TIN DILAURATE	Repr. 1B

2-AMINO-2-METHYLPROPANOL (124-68-5)

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

		hazards
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OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

Method	Species	Results
		Suspected of damaging fertility

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

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

DIOCTYL TIN DILAURATE (3648-18-8)

Method	Species	Results
		Suspected of damaging the unborn child.

STOT - single exposure

No information available.

2-AMINO-2-METHYLPROPANOL (124-68-5)

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

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

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

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

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

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

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

DIOCTYL TIN DILAURATE (3648-18-8)

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

STOT - repeated exposure No information available.

Component Information

2-AMINO-2-METHYLPROPANOL (124-68-5)

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

OCTAMETHYLCYCLOTETRA SILOXANE (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

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

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

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

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

DIOCTYL TIN DILAURATE (3648-18-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Based on information for a similar material: In animals, effects have been reported on the following organs: thymus Immune system

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

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Not considered to be harmful to aquatic life.

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

2-AMINO-2-METHYLPROPANOL (124-68-5)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test or Equivalent.	Lepomis macrochirus	LC50	190 mg/L	96 hours	
OECD Test No. 203: Fish, Acute Toxicity Test or Equivalent.	Pleuronectes platessa	LC50	184 mg/L	96 hours	
OECD Test No. 203: Fish, Acute Toxicity Test or Equivalent.	Leuciscus idus	LC50	331 mg/L	48 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test or Equivalent.	Crangon crangon	LC50	179 mg/L	96 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test or Equivalent.	Daphnia magna	LC50	193 mg/L	48 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test or Equivalent.	Scenedesmus sp	EyC50	565.5 mg/L	72 hours	
OECD Test No. 209: Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)	activated sludge	EC50	342.9 mg/L	3.0 hours	

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
	Oncorhynchus mykiss (rainbow trout)	LC50	> 0.022 mg/L	96 hours	
	Cyprinodon	LC50	> 0.0063 mg/L	14 days	

	variegatus				
	Mysidopsis bahia	EC50	> 0.0091 mg/L	96 hours	
	Daphnia magna	EC50	> 0.015 mg/L	48 hours	
	Pseudokirchneriella subcapitata	ErC50	> 0.022 mg/L	96 hours	
	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	
					Based on testing of comparable products: The estimated maximum aqueous concentration of Octamethyl Cyclotetrasiloxane (D4) from migration to water from the product as supplied is below the D4 established no-effect threshold (< 0.0079 mg/L) for aquatic organisms.

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 204: Fish, Prolonged Toxicity Test: 14-Day Study	Oncorhynchus mykiss (rainbow trout)	LC50	> 16 µg/l	96 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Daphnia magna	EC50	> 2.9 mg/L	48 hours	
	Pseudokirchneriella subcapitata	ErC50	> 0.012 mg/L	96 hours	
	Pseudokirchneriella subcapitata	NOEC	0.012 mg/L	96 hours	
Chronic aquatic toxicity	Oncorhynchus mykiss (rainbow trout)	LC50	> 16 mg/L	14 days	
Chronic aquatic toxicity	Oncorhynchus mykiss (rainbow trout)	NOEC	>= 0.017 mg/L	45 days	
Chronic aquatic toxicity	Oncorhynchus mykiss (rainbow trout)	NOEC	>= 0.014 mg/L	90 days	
Chronic aquatic toxicity	Daphnia magna	NOEC	0.015 mg/L	21 days	
	Eisenia fetida	NOEC	>= 76 mg/kg	200 hours	

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

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

DIOCTYL TIN DILAURATE (3648-18-8)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Daphnia magna	EC50	> 0.21 mg/L	48 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Desmodesmus subspicatus	EC50	> 0.0018 mg/L	72 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Desmodesmus subspicatus	NOEC	0.00097 mg/L	72 hours	
OECD Test No. 209: Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)		EC50	1000 mg/L	3 hours	

12.2. Persistence and degradability

Persistence and degradability No information available.

2-AMINO-2-METHYLPROPANOL (124-68-5)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F) or Equivalent.	28 days	Biodegradation 89.3	Readily biodegradable

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2)

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

DECAMETHYLCYCLOPENTASILOXANE (541-02-6)

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

DODECAMETHYLCYCLOHEXASILOXANE (540-97-6)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO ₂ Evolution Test (TG 301 B)	28 days	Biodegradation 4.5%	Not readily biodegradable

DIOCTYL TIN DILAURATE (3648-18-8)

Method	Exposure time	Value	Results
			Not readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
2-AMINO-2-METHYLPROPANOL	-0.63
OCTAMETHYLCYCLOTETRASILOXANE	6.49
DECAMETHYLCYCLOPENTASILOXANE	5.2

DODECAMETHYLCYCLOHEXASILOXANE	8.87
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12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

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

Chemical name	PBT and vPvB assessment
2-AMINO-2-METHYLPROPANOL	The substance is not PBT / vPvB
OCTAMETHYLCYCLOTETRAISILOXANE	PBT substance vPvB substance
DECAMETHYLCYCLOPENTASILOXANE	PBT substance vPvB substance
DODECAMETHYLCYCLOHEXASILOXANE	vPvB substance
DIOCTYL TIN DILAURATE	The substance is not PBT / vPvB

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
14.3 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).

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
OCTAMETHYLCYCLOTETRAILOXANE - 556-67-2	Use restricted. See item 70.	-
DECAMETHYLCYCLOPENTASILOXANE - 541-02-6	Use restricted. See item 70.	-

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Dangerous substance category per COMAH Regulations 2015 (as amended)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Named dangerous substances per COMAH Regulations 2015 (as amended)

Not applicable

The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended)

Not applicable

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

Not applicable

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

Not applicable

International Inventories

TSCA

Contact supplier for inventory compliance status

DSL/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 information available

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**

H226 - Flammable liquid and vapour
H315 - Causes skin irritation
H319 - Causes serious eye irritation
H361f - Suspected of damaging fertility
H410 - Very 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 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16**

Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
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
Chronic aquatic toxicity
Aspiration hazard
Ozone

Calculation method
Calculation method
Calculation method
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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Supersedes date 27-Apr-2021

Revision date 04-May-2024

**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