

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

Supersedes date 22-Apr-2020

Revision date 10-Apr-2024

Revision Number 6

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

1.1. Product identifier

Product Code(s) 13679

Safety data sheet number 13679

Product Name DOWSIL 2503 COSMETIC WAX

Substance Name Dimethyl, methyloctadecyl siloxane

CAS No 67762-83-8

Synonyms DOW CORNING 2503 COSMETIC WAX

Pure substance/mixture Substance

Contains OCTADEC-1-ENE; 2-ETHYL-1-HEXADECENE; 2-HEXYL-1-DODECENE; 2-BUTYL-1-TETRADECENE;
2-OCTYL-1-DECENE

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

Recommended use Intermediate Cosmetics Softeners 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

Not classified

2.2. Label elements

Contains OCTADEC-1-ENE; 2-ETHYL-1-HEXADECENE; 2-HEXYL-1-DODECENE; 2-BUTYL-1-TETRADECENE; 2-OCTYL-1-DECENE

Not classified

Hazard statements

Not classified

EUH210 - Safety data sheet available on request

Precautionary statements

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P234 - Keep only in original packaging

P403 - Store in a well-ventilated place

2.3. Other hazards

Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air. Avoid contact with:.. Water. Alcohols. Acidic. Bases. Oxidising Agent.

SECTION 3: Composition/information on ingredients

3.1 Substances

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)
DIMETHYL, METHYLOCTADECYL SILOXANE 67762-83-8	< 100%	-	-	-	-	-	-
OCTADEC-1-ENE 112-88-9	>= 7.0 - <= 9.0 %	204-012-9	-	Asp. Tox. 1 (H304)	-	-	-
2-HEXYL-1-DODECENE 51655-67-5	>= 3.0 - <= 4.0 %	-	-	Asp. Tox. 1 (H304) (EUH066)	-	-	-
2-ETHYL-1-HEXADECENE 128057-44-3	>= 3.0 - <= 4.0 %	-	-	Asp. Tox. 1 (H304) (EUH066)	-	-	-
2-BUTYL-1-TETRADECENE 57557-53-6	>= 3.0 - <= 4.0 %	-	-	Asp. Tox. 1 (H304) (EUH066)	-	-	-
2-OCTYL-1-DECENE 51655-66-4	>= 1.8 - <= 2.2 %	-	-	Asp. Tox. 1 (H304)	-	-	-

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

This product does not contain candidate substances of very high concern at a concentration >= 0.1% (UK REACH Article 59)

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.
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

Eyes	Solid particles trapped behind the eyelid may cause abrasive damage,.
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4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	Treat symptomatically. May cause asthma-like (reactive airways) symptoms. Bronchodilators, expectorants and antitussives may be of help. Repeated excessive exposure may aggravate preexisting lung disease. Skin contact may aggravate preexisting dermatitis.
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SECTION 5: Firefighting measures**5.1. Extinguishing media**

Suitable Extinguishing Media	Alcohol resistant foam. Carbon dioxide (CO ₂). 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. Dry chemical.

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. Applying foam will release significant amounts of hydrogen gas that can be trapped under the foam blanket.
Hazardous combustion products	Carbon oxides. Silicon oxides. 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. Follow precautions for safe handling described in this safety data sheet.

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 Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Take up mechanically, placing in appropriate containers for disposal. Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air. Avoid contact with: Water. Acidic. Bases. Alcohols. Oxidising Agent.

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. Protect from moisture. Water. Avoid spilling. Avoid release to the environment. Handle in accordance with good industrial hygiene and safety practice.

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. Product may evolve minute quantities of flammable hydrogen gas which can accumulate. Do not repackage. Closed containers can burst violently when heated, due to excess pressure build-up. Store away from the following materials. Strong oxidising agents.

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
OCTADEC-1-ENE 112-88-9		4 mg/kg bw/day [4] [6]	29 mg/m ³ [4] [6]

[4] Systemic health effects.
[6] Long term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
OCTADEC-1-ENE 112-88-9	2.5 mg/kg bw/day [4] [6]		8.7 mg/m ³ [4] [6]

[4] Systemic health effects.
[6] Long term.

Predicted No Effect Concentration (PNEC) No information available.

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
	Chlorinated polyethylene (CPE)	> 0.35 mm	> 60 minutes
	Wear protective Neoprene™ gloves	> 0.35 mm	> 60 minutes
	Wear protective nitrile rubber gloves	> 0.35 mm	> 60 minutes
	Polyethylene (PE)	> 0.35 mm	> 60 minutes
	Ethyl vinyl alcohol laminate ("EVAL")	> 0.35 mm	> 60 minutes
	Polyvinyl alcohol (PVA)	> 0.35 mm	> 60 minutes
	Polyvinyl chloride (PVC)	> 0.35 mm	> 60 minutes
	Wear protective Viton™ gloves	> 0.35 mm	> 60 minutes
	Wear protective butyl rubber gloves	> 0.35 mm	> 60 minutes

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	Solid
Appearance	Wax
Colour	white
Odour	Odourless.
Odour threshold	No information available

Property	Values	Remarks • Method
Melting point / freezing point		Not determined.
Initial boiling point and boiling range		Not applicable.
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	Closed cup.
Autoignition temperature		No information available.
Decomposition temperature		No information available.
pH		Not applicable.
pH (as aqueous solution)		No information available.
Kinematic viscosity		Not applicable.
Dynamic viscosity		Not applicable.
Water solubility		Not determined.
Solubility(ies)		No information available.
Partition coefficient		Not determined.
Vapour pressure		Not applicable.
Relative density	0.85	
Bulk density		No information available
Liquid Density	No information available	No information available
Relative vapour density		No information available.
Particle characteristics		No information available.
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

Evaporation rate	Not applicable
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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. Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air. Avoid contact with: Water. Alcohols. Acidic. Bases. Oxidising Agent. Metals. Hazardous decomposition products will be formed at elevated temperatures.

10.4. Conditions to avoid

Conditions to avoid Protect from moisture.

10.5. Incompatible materials

Incompatible materials Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides. Silicon oxides. Formaldehyde.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Information on likely routes of exposure****Product Information**

Inhalation No known effect based on information supplied.

Eye contact Solid particles trapped behind the eyelid may cause abrasive damage,.

Skin contact Non-irritating during normal use. Dryness and/or cracking.

Ingestion May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity**Numerical measures of toxicity**

> 5000 mg/kg > 2000 mg/kg

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
OCTADEC-1-ENE	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 20 mg/l (Rat) 4h
2-HEXYL-1-DODECENE	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
2-ETHYL-1-HEXADECENE	> 3575 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 40 mg/l (Rat) 4h
2-BUTYL-1-TETRADECENE	> 5000 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	-
2-OCTYL-1-DECENE	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-

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

Skin corrosion/irritation Non-irritating during normal use. Dryness and/or cracking.

DIMETHYL, METHYLOCTADECYL SILOXANE (67762-83-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Non-irritating during normal use Dryness and/or cracking

OCTADEC-1-ENE (112-88-9)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Non-irritating during normal use Dryness and/or cracking

2-HEXYL-1-DODECENE (51655-67-5)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Non-irritating during normal use Dryness and/or cracking Repeated exposure may cause skin dryness or cracking

2-ETHYL-1-HEXADECENE (128057-44-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Non-irritating during normal use Dryness and/or cracking Repeated exposure may cause skin dryness or cracking

2-BUTYL-1-TETRADECENE (57557-53-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Non-irritating during normal use Dryness and/or cracking Repeated exposure may cause skin dryness or cracking

2-OCTYL-1-DECENE (51655-66-4)

Method	Species	Exposure route	Effective dose	Exposure time	Results
					Non-irritating during normal use Prolonged contact may cause redness and irritation

Serious eye damage/eye irritation May cause slight eye irritation. Solid particles trapped behind the eyelid may cause abrasive damage,.

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

					irritation
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DIMETHYL, METHYLOCTADECYL SILOXANE (67762-83-8)

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

OCTADEC-1-ENE (112-88-9)

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

2-HEXYL-1-DODECENE (51655-67-5)

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

2-ETHYL-1-HEXADECENE (128057-44-3)

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

2-BUTYL-1-TETRADECENE (57557-53-6)

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

2-OCTYL-1-DECENE (51655-66-4)

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

Respiratory or skin sensitisation Non-sensitizing.

DIMETHYL, METHYLOCTADECYL SILOXANE (67762-83-8)

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

OCTADEC-1-ENE (112-88-9)

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

2-HEXYL-1-DODECENE (51655-67-5)

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

2-ETHYL-1-HEXADECENE (128057-44-3)

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

2-BUTYL-1-TETRADECENE (57557-53-6)

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

2-OCTYL-1-DECENE (51655-66-4)

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

Germ cell mutagenicity No information available.

Component Information
OCTADEC-1-ENE (112-88-9)

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

2-HEXYL-1-DODECENE (51655-67-5)

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

2-ETHYL-1-HEXADECENE (128057-44-3)

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

2-OCTYL-1-DECENE (51655-66-4)

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

Carcinogenicity No information available.

Component Information
2-OCTYL-1-DECENE (51655-66-4)

Method	Species	Results
		Did not cause cancer in laboratory animals.

Reproductive toxicity No information available.

OCTADEC-1-ENE (112-88-9)

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

2-OCTYL-1-DECENE (51655-66-4)

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

STOT - single exposure No information available.

OCTADEC-1-ENE (112-88-9)

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

2-HEXYL-1-DODECENE (51655-67-5)

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

2-ETHYL-1-HEXADECENE (128057-44-3)

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

STOT - repeated exposure

No information available.

OCTADEC-1-ENE (112-88-9)

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

2-HEXYL-1-DODECENE (51655-67-5)

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

2-ETHYL-1-HEXADECENE (128057-44-3)

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

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**

The environmental impact of this product has not been fully investigated.

OCTADEC-1-ENE (112-88-9)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test	Oncorhynchus mykiss (rainbow trout)	LC50	> 1000 mg/L	96 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Daphnia magna	EC50	> 1000 mg/L	48 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Pseudokirchneriella subcapitata	EL50	> 1000 mg/L	72 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Pseudokirchneriella subcapitata	NOELR	> 1000 mg/L	72 hours	
OECD Test No. 209: Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation)	activated sludge	EC50	> 1000 mg/L	3 hours	
Chronic aquatic toxicity	Daphnia magna	NOEC	0.0194 mg/L	21 days	

2-HEXYL-1-DODECENE (51655-67-5)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test	Oncorhynchus mykiss (rainbow trout)	LC50	> 1000 mg/L	96 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Daphnia magna	EC50	> 1000 mg/L	48 hours	
	Skeletonema costatum	EC50	> 1000 mg/L	72 hours	
Bacteria toxicity		NOEC	2 mg/L	14 hours	

2-ETHYL-1-HEXADECENE (128057-44-3)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test	Cyprinodon variegatus	LC50	> 1000 mg/L	96 hours	
	Daphnia magna	EC50	> 1000 mg/L	48 hours	
	Raphidocelis subcapitata	EC50	> 1000 mg/L	96 hours	

2-BUTYL-1-TETRADECENE (57557-53-6)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test	Oncorhynchus mykiss (rainbow trout)	LC50	> 1000 mg/L	96 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Daphnia magna	EC50	> 1000 mg/L	48 hours	
	Skeletonema	EC50	> 1000 mg/L	72 hours	

	costatum				
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2-OCTYL-1-DECENE (51655-66-4)

Method	Species	Endpoint type	Effective dose	Exposure time	Results
OECD Test No. 203: Fish, Acute Toxicity Test	Oncorhynchus mykiss (rainbow trout)	LC50	> 0.0034 mg/L	96 hours	
OECD Test No. 202: Daphnia sp., Acute Immobilisation Test	Daphnia magna	EC50	> 1000 mg/L	48 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Pseudokirchneriella subcapitata	EC50	> 0.0009 mg/L	72 hours	
OECD Test No. 201: Freshwater Algae and Cyanobacteria, Growth Inhibition Test	Pseudokirchneriella subcapitata	NOEC	> 0.0009 mg/L	72 hours	

12.2. Persistence and degradability

Persistence and degradability No information available.

OCTADEC-1-ENE (112-88-9)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B) or Equivalent.	28 days	Biodegradation 77 - 81%	Readily biodegradable

2-HEXYL-1-DODECENE (51655-67-5)

Method	Exposure time	Value	Results
	28 days	Biodegradation 90 %	Readily biodegradable

2-ETHYL-1-HEXADECENE (128057-44-3)

Method	Exposure time	Value	Results
	28 days	Biodegradation 90 %	Readily biodegradable

2-BUTYL-1-TETRADECENE (57557-53-6)

Method	Exposure time	Value	Results
			Readily biodegradable

2-OCTYL-1-DECENE (51655-66-4)

Method	Exposure time	Value	Results
OECD Test No. 301D: Ready Biodegradability: Closed Bottle Test (TG 301 D) or Equivalent.	28 days	Biodegradation 22 %	Readily biodegradable
OECD Test No. 301C: Ready Biodegradability: Modified MITI Test (I) (TG 301 C) or Equivalent.	28 days	Biodegradation 67 - 98 %	Readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
OCTADEC-1-ENE	> 4.2
2-HEXYL-1-DODECENE	> 4

2-OCTYL-1-DECENE	> 4
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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 does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
OCTADEC-1-ENE	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 does not contain substances subject to authorisation (UK REACH - Annex XIV).

This product does not contain substances subject to restriction (UK REACH - Annex XVII).

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)

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/NDSL	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/NDSL	- 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

Legend

SVHC: Substances of Very High Concern for Authorisation:

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	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

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End of Safety Data Sheet