



HG limescale remover foam spray super powerful

Safety Data Sheet

According to REACH Regulation (EC) No 1907/2006, as retained and amended in UK law.

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

1.1. Product identifier

Product form : Mixture
Product name : HG limescale remover foam spray super powerful
Product code : 605 ART
Type of product : Detergent
Product group : Trade product

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

1.2.1. Relevant identified uses

Intended for general public
Main use category : Consumer use

1.2.2. Uses advised against

Restrictions on use : All other uses not recommended above

1.3. Details of the supplier of the safety data sheet

Manufacturer

HG International B.V.
P.J. Oudweg 41
NL- 1314 CJ Almere
The Netherlands
T +31 (0)36 54 94 700
safety@hg.eu - www.hg.eu

1.4. Emergency telephone number

Emergency number : +31 (0)36 54 94 777
Only for medical personnel
Mon-Fri 09:00 AM - 05:00 PM (CEST)

Country/Area	Organisation/Company	Address	Emergency number	Comment
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GB CLP (SI 2019:720 as amended)

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to GB CLP (SI 2019:720 as amended)

Child-resistant fastening : Not applicable
Tactile warning : Not applicable

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2.3. Other hazards

Contains no PBT and/or vPvB substances $\geq 0.1\%$ assessed in accordance with UK REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP at a concentration equal to or greater than 0,1 %

Component	
Pentyl salicylate(2050-08-0)	The substance is not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP
2-methyl-4-isopropylidihydrocinnamaldehyde(103-95-7)	The substance is not included in the list established in accordance with Article 59(1) of UK REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in GB BPR and GB PPP

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
Water	CAS-No.: 7732-18-5 EC-No.: 231-791-2	$\geq 50 - < 75$	Not classified
Phosphoric acid	CAS-No.: 7664-38-2 EC-No.: 231-633-2 REACH-no: 01-2119485924-24	$\geq 15 - < 25$	Acute Tox. 4 (Oral), H302 (ATE=301 mg/kg bodyweight) Skin Corr. 1B, H314
D-gluconic acid	CAS-No.: 526-95-4 EC-No.: 208-401-4 REACH-no: 01-2119454394-36	$\geq 2 - < 5$	Not classified
D-Glucopyranose, oligomers, decyl octyl glycosides	CAS-No.: 68515-73-1 EC-No.: 500-220-1 REACH-no: 01-2119488530-36	$\geq 2 - < 5$	Eye Dam. 1, H318
Isotridecanol, ethoxylated	CAS-No.: 69011-36-5 EC-No.: 500-241-6	$\geq 1 - < 2$	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Eye Dam. 1, H318
oxalic acid	CAS-No.: 144-62-7 EC-No.: 205-634-3 REACH-no: 01-2119534576-33	$\geq 1 - < 2$	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Eye Dam. 1, H318
N,N-dimethyltetradecylamine N-oxide	CAS-No.: 3332-27-2 EC-No.: 222-059-3 REACH-no: 01-2119949262-37	$\geq 0.1 - < 1$	Not classified
Alkyl(hydrogenatedcastoroil)EO(>20)	CAS-No.: 61788-85-0 EC-No.: 500-147-5	$\geq 0.01 - < 0.1$	Not classified

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Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
Benzyl acetate	CAS-No.: 140-11-4 EC-No.: 205-399-7 REACH-no: 01-2119638272-42	≥ 0.001 – < 0.01	Aquatic Chronic 3, H412
(R)-p-mentha-1,8-diene; d-limonene	CAS-No.: 5989-27-5 EC-No.: 227-813-5 UK Index-No.: 601-096-00-2 REACH-no: 01-2119529223-47	≥ 0.001 – < 0.01	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-methylundecanal	CAS-No.: 110-41-8 EC-No.: 203-765-0 REACH-no: 01-2119969443-29	< 0.01	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Pentyl salicylate	CAS-No.: 2050-08-0 EC-No.: 218-080-2 REACH-no: 01-2119969444-27	< 0.01	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Aquatic Acute 1, H400 Aquatic Chronic 1, H410
cineole	CAS-No.: 470-82-6 EC-No.: 207-431-5 REACH-no: 01-2119967772-24	< 0.01	Flam. Liq. 3, H226 Skin Sens. 1B, H317
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool	CAS-No.: 78-70-6 EC-No.: 201-134-4 UK Index-No.: 603-235-00-2 REACH-no: 01-2119474016-42	≥ 0.001 – < 0.01	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Dodecanal	CAS-No.: 112-54-9 EC-No.: 203-983-6 REACH-no: 01-2119969441-33	< 0.001	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Anethole	CAS-No.: 104-46-1 EC-No.: 203-205-5 REACH-no: 01-2119979097-22	< 0.001	Skin Sens. 1, H317
[3R-(3α,3aβ,7β,8α)]-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene	CAS-No.: 469-61-4 EC-No.: 207-418-4	< 0.001	Skin Irrit. 2, H315 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-methyl-4-isopropylidihydrocinnamaldehyde	CAS-No.: 103-95-7 EC-No.: 203-161-7 REACH-no: 01-2119970582-32	< 0.001	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412
2,4-dimethylcyclohexene-3-carbaldehyde	CAS-No.: 68039-49-6 EC-No.: 268-264-1 REACH-no: 01-2119982384-28	< 0.001	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411
7-methyl-3-methyleneocta-1,6-diene	CAS-No.: 123-35-3 EC-No.: 204-622-5 REACH-no: 01-2119514321-56	< 0.001	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 2, H411

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Name	Product identifier	%	Labelling according to GB CLP (SI 2019:720 as amended)
Pin-2(3)-ene	CAS-No.: 80-56-8 EC-No.: 201-291-9 REACH-no: 01-2119519223-49	< 0.001	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
L-beta-pinene	CAS-No.: 18172-67-3 EC-No.: 242-060-2 REACH-no: 01-2119519230-54	< 0.001	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one	CAS-No.: 21145-77-7 EC-No.: 244-240-6 REACH-no: 01-2119921100-61	< 0.001	Acute Tox. 4 (Oral), H302 (ATE=920 mg/kg bodyweight) Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Coumarin	CAS-No.: 91-64-5 EC-No.: 202-086-7 REACH-no: 01-2119949300-45	< 0.001	Acute Tox. 4 (Oral), H302 (ATE=680 mg/kg bodyweight) Skin Sens. 1, H317
Citronellol	CAS-No.: 106-22-9 EC-No.: 203-375-0 REACH-no: 01-2119453995-23	< 0.001	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317
Eugenol	CAS-No.: 97-53-0 EC-No.: 202-589-1 REACH-no: 01-2119971802-33	< 0.001	Eye Irrit. 2, H319 Skin Sens. 1, H317
geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol	CAS-No.: 106-24-1 EC-No.: 203-377-1 UK Index-No.: 603-241-00-5 REACH-no: 01-2119552430-49	< 0.001	Skin Sens. 1, H317
Evernia Prunastri extract	CAS-No.: 9000-50-4	< 0.001	Skin Sens. 1, H317

Specific concentration limits:

Name	Product identifier	Specific concentration limits (%)
Isotridecanol, ethoxylated	CAS-No.: 69011-36-5 EC-No.: 500-241-6	(1 ≤ C < 10) Eye Irrit. 2, H319 (100 ≤ C < 100) Eye Dam. 1, H318

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

SECTION 4: First aid measures

4.1. Description of first aid measures

No additional information available

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

No additional information available

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

No additional information available

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

No additional information available

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

For containment : For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

No additional information available

7.2. Conditions for safe storage, including any incompatibilities

Incompatible materials : Basic.
Storage temperature : 0 – 35 °C

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

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Oxalic acid (144-62-7)	
United Kingdom - Occupational Exposure Limits	
Local name	Oxalic acid
WEL TWA (OEL TWA)	1 mg/m ³
WEL STEL (OEL STEL)	2 mg/m ³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

Phosphoric acid (7664-38-2)	
United Kingdom - Occupational Exposure Limits	
Local name	Orthophosphoric acid
WEL TWA (OEL TWA)	1 mg/m ³
WEL STEL (OEL STEL)	2 mg/m ³
Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

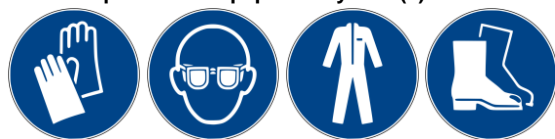
8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection			
Type	Field of application	Characteristics	Standard
Safety glasses with side shields	Normal use conditions		EN 166
Chemical goggles or face shield	Droplet		EN 166

8.2.2.2. Skin protection

Skin and body protection	
Type	Standard
Long sleeved protective clothing	
Chemical resistant safety shoes	EN ISO 20345
Use chemically protective clothing	EN 13034

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Hand protection					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.35 mm		EN ISO 374
Disposable gloves	Butyl rubber	6 (> 480 minutes)	0.5 mm		EN ISO 374

8.2.2.3. Respiratory protection

No additional information available

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

No additional information available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Yellow.
Odour	: Characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive limits	: Not available
Flash point	: > 65 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 0.5 – 1.5
pH solution concentration	: 100 %
Viscosity, kinematic	: Not available
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 1.04 – 1.05 g/ml
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

Dodecanal (112-54-9)	
Boiling point	215.85 °C Atm. press.: 101,325 kPa Decomposition: 'no'
Flash point	115.5 °C Atm. press.: 101325 Pa Remarks on result: 'other:'
Vapour pressure	0.7 Pa Temp.: 20 °C

2-methylundecanal (110-41-8)	
Boiling point	230.85 °C Atm. press.: 101,325 kPa Decomposition: 'no' Remarks on result: 'other:'
Flash point	68.5 °C Atm. press.: 101325 Pa Remarks on result: 'other:'

Pentyl salicylate (2050-08-0)	
Boiling point	270 °C Source: ChemIDplus
Flash point	126 °C Atm. press.: 101,325 kPa

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Pentyl salicylate (2050-08-0)	
Vapour pressure	0.24 Pa Temp.: 20 °C

Anethole (104-46-1)	
Boiling point	235 °C
Flash point	> 100 °C Source: GESTIS
Vapour pressure	0.037 mm Hg

Benzyl acetate (140-11-4)	
Boiling point	213.5 °C Atm. press.: 101325 Pa
Flash point	102 °C Atm. press.: 101325 Pa
Auto-ignition temperature	460 °C
Vapour pressure	190 mm Hg

Citronellol (106-22-9)	
Boiling point	223.8 °C Atm. press.: 1013 hPa
Flash point	107 °C Atm. press.: 1013 hPa
Auto-ignition temperature	240 °C Source: ECHA
Vapour pressure	9 Pa 25°C

Coumarin (91-64-5)	
Boiling point	301.7 °C
Flash point	162 °C Atm. press.: 1 atm Remarks on result: 'other:'
Vapour pressure	0.13034 Pa 25°C

2-methyl-4-isopropylidihydrocinnamaldehyde (103-95-7)	
Boiling point	234 °C Atm. press.: 101,325 kPa
Flash point	79.5 °C Atm. press.: 101325 Pa
Vapour pressure	0.3 Pa Temp.: 20 °C

cineole (470-82-6)	
Boiling point	177 °C Atm. press.: 101,325 kPa Decomposition: 'no'
Flash point	52 °C Remarks on result: 'other:'
Vapour pressure	122 Pa Temp.: 20 °C

Eugenol (97-53-0)	
Boiling point	248 °C Atm. press.: 755 mm Hg
Flash point	124 °C Atm. press.: 1 atm
Auto-ignition temperature	380 °C Source: ECHA
Vapour pressure	0.03999672 hPa Temp.: 25 °C Remarks on result: 'other:'

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geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (106-24-1)	
Boiling point	229 °C
Flash point	108 °C Atm. press.: 1013 hPa
Vapour pressure	4.6 Pa 25°C

2,4-dimethylcyclohexene-3-carbaldehyde (68039-49-6)	
Boiling point	196 °C
Flash point	70 °C Atm. press.: 101325 Pa
Vapour pressure	36 Pa Temp.: 20 °C

(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
Boiling point	175 °C
Flash point	51 °C Atm. press.: 1 atm
Auto-ignition temperature	245 °C Source: ECHA Registered substances
Vapour pressure	200 Pa Temp.: 298 K Remarks on result: 'other:'

linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (78-70-6)	
Boiling point	196.3 °C Atm. press.: 99,2 kPa Decomposition: 'no' Decomp. temp.: 196,3 °C Remarks on result: 'other:'
Flash point	≈ 77.2 °C Atm. press.: 101,3 kPa
Auto-ignition temperature	235 °C Source: International Chemical Safety Cards
Vapour pressure	27 Pa Temp.: 298 K

7-methyl-3-methyleneocta-1,6-diene (123-35-3)	
Boiling point	167 °C
Flash point	≈ 45 °C Atm. press.: 1 atm
Vapour pressure	267.98 Pa Temp.: 25 °C Remarks on result: 'other:'

Pin-2(3)-ene (80-56-8)	
Boiling point	155 °C
Flash point	31 °C Atm. press.: 1 atm
Auto-ignition temperature	255 °C
Vapour pressure	690 Pa 25°C

L-beta-pinene (18172-67-3)	
Boiling point	162 – 167 °C
Flash point	39 °C Atm. press.: 1 atm
Vapour pressure	2 mm Hg

1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one (21145-77-7)	
Boiling point	326 °C Atm. press.: 1 atm Decomposition: 'no'
Flash point	> 100 °C

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1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one (21145-77-7)

Vapour pressure	0.0682 Pa Temp.: 25 °C Remarks on result: 'other:'
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Alkyl(hydrogenatedcastoroil)EO(>20) (61788-85-0)

Boiling point	348 °C Remarks on result: 'other:'
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Vapour pressure	0 Pa Temp.: 25 °C Remarks on result: 'other:'
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Water (7732-18-5)

Boiling point	100 °C
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Vapour pressure	2300 Pa 25°C
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Isotridecanol, ethoxylated (69011-36-5)

Boiling point	> 280 °C Atm. press.: 101 kPa Decomposition: 'no' Remarks on result: 'other:'
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Flash point	138 °C Atm. press.: 1013 hPa Remarks on result: 'other:'
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D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)

Boiling point	> 250 °C
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Vapour pressure	17 mm Hg
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D-gluconic acid (526-95-4)

Boiling point	673.6 °C
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Flash point	> 200 °C
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Evernia Prunastri extract (9000-50-4)

Flash point	110.5 °C Atm. press.: 1013 hPa
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oxalic acid (144-62-7)

Boiling point	149 °C
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Vapour pressure	0.000234 mm Hg Temp.: 25 °C
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N,N-dimethyltetradecylamine N-oxide (3332-27-2)

Boiling point	449.8 °C
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Vapour pressure	≈ 0.00000667 Pa Temp.: 25 °C Remarks on result: 'other:'
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Phosphoric acid (7664-38-2)

Boiling point	296.5 °C
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Vapour pressure	< 0.001 Pa 25°C
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9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Conclusive but not sufficient for classification)
Acute toxicity (dermal) : Not classified (Conclusive but not sufficient for classification)
Acute toxicity (inhalation) : Not classified (Conclusive but not sufficient for classification)

Dodecanal (112-54-9)	
LD50 oral rat	23100 mg/kg bodyweight Animal: rat
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit
ATE GB CLP (oral)	23100 mg/kg bodyweight
2-methylundecanal (110-41-8)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat
LD50 dermal rabbit	> 10000 mg/kg Source: ChemIDPlus
Pentyl salicylate (2050-08-0)	
LD50 oral rat	≈ 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: EU Method B.3 (Acute Toxicity (Dermal))
ATE GB CLP (oral)	500 mg/kg bodyweight
Anethole (104-46-1)	
LD50 oral rat	2090 mg/kg Source: NLM, THOMSON
LD50 dermal rabbit	> 5000 mg/kg Source: NLM, THOMSON
ATE GB CLP (oral)	2090 mg/kg bodyweight
Benzyl acetate (140-11-4)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)

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Benzyl acetate (140-11-4)	
LD50 dermal rabbit	5000 mg/kg
ATE GB CLP (dermal)	5000 mg/kg bodyweight
Citronellol (106-22-9)	
LD50 oral rat	3450 mg/kg Source: National Library of Medicine
LD50 oral	3450 mg/kg bodyweight
LD50 dermal rabbit	2650 mg/kg Source: National Library of Medicine
LD50 dermal	2650 mg/kg bodyweight
ATE GB CLP (oral)	3450 mg/kg bodyweight
ATE GB CLP (dermal)	2650 mg/kg bodyweight
Coumarin (91-64-5)	
LD50 oral	680 mg/kg bodyweight
ATE GB CLP (oral)	680 mg/kg bodyweight
2-methyl-4-isopropylidihydrocinnamaldehyde (103-95-7)	
LD50 oral rat	2000 – 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rat	> 5000 mg/kg bodyweight Animal: rat
ATE GB CLP (oral)	2000 mg/kg bodyweight
Eugenol (97-53-0)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 oral	1500 – 1500 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 dermal	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 2580 mg/l
LC50 Inhalation - Rat (Vapours)	> 2580 mg/l
ATE GB CLP (oral)	1500 mg/kg bodyweight
geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (106-24-1)	
LD50 oral rat	3600 mg/kg bodyweight Animal: rat, 95% CL: 2840 - 4570
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit
ATE GB CLP (oral)	3600 mg/kg bodyweight
2,4-dimethylcyclohexene-3-carbaldehyde (68039-49-6)	
LD50 oral rat	3900 mg/kg bodyweight Animal: rat, Guideline: other., 95% CL: 2900 - 5100
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: other:
ATE GB CLP (oral)	3900 mg/kg bodyweight
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 oral	4400 mg/kg bodyweight
LD50 dermal rabbit	> 5000 mg/kg Source: National Library of Medicine

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(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
LD50 dermal	> 2000 mg/kg bodyweight
ATE GB CLP (oral)	4400 mg/kg bodyweight
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (78-70-6)	
LD50 oral rat	2790 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Remarks on results: other., 95% CL: 2440 - 3180
LD50 oral	2790 mg/kg bodyweight
LD50 dermal rabbit	5610 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 3578 - 8374
LD50 dermal	5610 mg/kg bodyweight
ATE GB CLP (oral)	2790 mg/kg bodyweight
ATE GB CLP (dermal)	5610 mg/kg bodyweight
7-methyl-3-methylenoocta-1,6-diene (123-35-3)	
LD50 oral rat	> 11390 mg/kg bodyweight Animal: rat
LD50 oral	> 3380 mg/kg bodyweight Animal: mouse
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Pin-2(3)-ene (80-56-8)	
LD50 oral rat	2100 mg/kg Source: International Uniform Chemical Information Database
LD50 oral	3700 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LD50 dermal	> 5000 mg/kg bodyweight
ATE GB CLP (oral)	500 mg/kg bodyweight
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one (21145-77-7)	
LD50 oral rat	920 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 795 - 1066
LD50 dermal rat	9740 mg/kg Source: NLM; ChemIDplus
ATE GB CLP (oral)	920 mg/kg bodyweight
ATE GB CLP (dermal)	9740 mg/kg bodyweight
Alkyl(hydrogenatedcastoroil)EO(>20) (61788-85-0)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)
Water (7732-18-5)	
LD50 oral rat	90000 mg/kg
LD50 oral	> 90000 mg/kg bodyweight
LD50 dermal	> 90000 mg/kg bodyweight
ATE GB CLP (oral)	90000 mg/kg bodyweight
Isotridecanol, ethoxylated (69011-36-5)	
LD50 oral	> 2000 mg/kg bodyweight

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Isotridecanol, ethoxylated (69011-36-5)	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	≈ 5960 mg/kg bodyweight Animal: rabbit, Animal sex: male, Remarks on results: other:
ATE GB CLP (oral)	500 mg/kg bodyweight
D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method)
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal	> 2000 mg/kg bodyweight
D-gluconic acid (526-95-4)	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Evernia Prunastri extract (9000-50-4)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 420 (Acute Oral Toxicity - Fixed Dose Method), Guideline: EU Method B.1 bis (Acute Oral Toxicity - Fixed Dose Procedure)
oxalic acid (144-62-7)	
LD50 oral rat	375 mg/kg
LD50 dermal rabbit	20000 mg/kg bodyweight Animal: rabbit
ATE GB CLP (oral)	500 mg/kg bodyweight
ATE GB CLP (dermal)	1100 mg/kg bodyweight
N,N-dimethyltetradecylamine N-oxide (3332-27-2)	
LD50 oral rat	1064 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal)), Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
Phosphoric acid (7664-38-2)	
LD50 oral rat	1.25 g/kg
LD50 oral	301 mg/kg
LD50 dermal rabbit	2740 mg/kg Source: ECHA
ATE GB CLP (oral)	301 mg/kg bodyweight
ATE GB CLP (dermal)	2740 mg/kg bodyweight
Skin corrosion/irritation	: Not classified (Conclusive but not sufficient for classification) pH: 0.5 – 1.5
Water (7732-18-5)	
pH	7
N,N-dimethyltetradecylamine N-oxide (3332-27-2)	
pH	7 – 9
Serious eye damage/irritation	: Not classified (Conclusive but not sufficient for classification) pH: 0.5 – 1.5

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Water (7732-18-5)	
pH	7
N,N-dimethyltetradecylamine N-oxide (3332-27-2)	
pH	7 – 9
Respiratory or skin sensitisation	: Not classified (Conclusive but not sufficient for classification)
Germ cell mutagenicity	: Not classified (Conclusive but not sufficient for classification)
Carcinogenicity	: Not classified (Conclusive but not sufficient for classification)
Benzyl acetate (140-11-4)	
IARC group	3 - Not classifiable
Coumarin (91-64-5)	
IARC group	3 - Not classifiable
Eugenol (97-53-0)	
IARC group	3 - Not classifiable
7-methyl-3-methylenoocta-1,6-diene (123-35-3)	
IARC group	2B - Possibly carcinogenic to humans
geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (106-24-1)	
NOAEL (chronic, oral, animal/male, 2 years)	60 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 453 (Combined Chronic Toxicity / Carcinogenicity Studies), Remarks on results: other:
Reproductive toxicity	: Not classified (Conclusive but not sufficient for classification)
Pentyl salicylate (2050-08-0)	
NOAEL (animal/male, F0/P)	540 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)]
NOAEL (animal/female, F0/P)	180 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 415 [One-Generation Reproduction Toxicity Study (before 9 October 2017)]
STOT-single exposure	: Not classified (Conclusive but not sufficient for classification)
STOT-repeated exposure	: Not classified (Conclusive but not sufficient for classification)
Citronellol (106-22-9)	
NOAEL (oral, rat, 90 days)	2000 mg/kg bodyweight Animal: rat, Guideline: other:
NOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.063 mg/l air Animal: rat, Guideline: OECD Guideline 412 (Subacute Inhalation Toxicity: 28-Day Study)
Coumarin (91-64-5)	
NOAEL (subchronic, oral, animal/female, 90 days)	> 138.3 mg/kg bodyweight Animal: mouse, Animal sex: female
cineole (470-82-6)	
NOAEL (oral, rat, 90 days)	600 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other., Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: EPA OPPTS 870.3150 (90-Day Oral Toxicity in Non-rodents)
Eugenol (97-53-0)	
NOAEL (subchronic, oral, animal/male, 90 days)	≥ 900 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: other:
NOAEL (subchronic, oral, animal/female, 90 days)	450 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: other:
geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (106-24-1)	
NOAEL (dermal, rat/rabbit, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: other., Guideline: other:

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2,4-dimethylcyclohexene-3-carbaldehyde (68039-49-6)	
LOAEL (oral, rat, 90 days)	400 mg/kg bodyweight Animal: rat, Guideline: other:
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (78-70-6)	
NOAEL (dermal, rat/rabbit, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 411 (Subchronic Dermal Toxicity: 90-Day Study)
7-methyl-3-methyleneocta-1,6-diene (123-35-3)	
LOAEL (oral, rat, 90 days)	250 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (subchronic, oral, animal/male, 90 days)	500 mg/kg bodyweight Animal: mouse, Animal sex: male, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (subchronic, oral, animal/female, 90 days)	250 mg/kg bodyweight Animal: mouse, Animal sex: female, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
Alkyl(hydrogenatedcastoroi)EO(>20) (61788-85-0)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test), Remarks on results: other:
Isotridecanol, ethoxylated (69011-36-5)	
NOAEL (oral, rat, 90 days)	≥ 500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
N,N-dimethyltetradecylamine N-oxide (3332-27-2)	
NOAEL (oral, rat, 90 days)	40 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Aspiration hazard	: Not classified (Conclusive but not sufficient for classification)
Citronellol (106-22-9)	
Viscosity, kinematic	12.984 mm ² /s
2,4-dimethylcyclohexene-3-carbaldehyde (68039-49-6)	
Viscosity, kinematic	2243 mm ² /s Temp.: '20°C' Parameter: 'kinematic viscosity (in mm ² /s)'
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (78-70-6)	
Viscosity, kinematic	5191.86 mm ² /s
11.2. Information on other hazards	
No additional information available	
SECTION 12: Ecological information	
12.1. Toxicity	
Hazardous to the aquatic environment, short-term (acute)	: Not classified (Conclusive but not sufficient for classification)
Hazardous to the aquatic environment, long-term (chronic)	: Not classified (Conclusive but not sufficient for classification)
2-methylundecanal (110-41-8)	
LC50 - Fish [1]	0.35 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	0.21 mg/l Test organisms (species): Daphnia magna

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2-methylundecanal (110-41-8)	
EC50 72h - Algae [1]	0.11 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.18 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	0.778 mg/l Source: EPISUITE
Pentyl salicylate (2050-08-0)	
LC50 - Fish [1]	1.34 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	0.88 mg/l Test organisms (species): Daphnia magna
EC50 96h - Algae [1]	0.55 mg/l Source: ECOSAR
Anethole (104-46-1)	
LC50 - Fish [1]	5.423 mg/l Source: ECOSAR
EC50 96h - Algae [1]	4.332 mg/l Source: ECOSAR
Benzyl acetate (140-11-4)	
LC50 - Fish [1]	4 mg/l Test organisms (species): Oryzias latipes
EC50 - Crustacea [1]	17 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	110 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	92 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC chronic fish	0.92 mg/l Test organisms (species): Oryzias latipes Duration: '28 d'
Citronellol (106-22-9)	
LC50 - Fish [1]	14.66 mg/l Test organisms (species): Leuciscus idus
EC50 - Crustacea [1]	17.48 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	17.48 mg/l waterflea
EC50 - Other aquatic organisms [2]	2.38 mg/l
EC50 72h - Algae [1]	2.4 mg/l Test organisms (species):
EC50 96h - Algae [1]	3.231 mg/l Source: Ecological Structure Activity Relationships
Coumarin (91-64-5)	
LC50 - Fish [1]	56 mg/l
LC50 - Fish [2]	1324 mg/l Test organisms (species):
EC50 - Crustacea [1]	8012 mg/l Test organisms (species): Daphnia sp.
EC50 - Other aquatic organisms [1]	13.5 mg/l waterflea
EC50 96h - Algae [1]	1452 mg/l Test organisms (species):
NOEC (chronic)	0.5 mg/l Test organisms (species): Duration: '21 d'
2-methyl-4-isopropylidihydrocinnamaldehyde (103-95-7)	
LC50 - Fish [1]	1.42 mg/l Test organisms (species):
LC50 - Fish [2]	2.49 mg/l Test organisms (species):
EC50 - Crustacea [1]	1.4 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	4.3 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

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2-methyl-4-isopropylidihydrocinnamaldehyde (103-95-7)	
EC50 72h - Algae [2]	2.7 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	3.8 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [2]	2.7 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
cineole (470-82-6)	
LC50 - Fish [1]	57 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 74 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	> 74 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
Eugenol (97-53-0)	
LC50 - Fish [1]	13 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	1.05 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	1.9 mg/l waterflea
EC50 - Other aquatic organisms [2]	15.4 mg/l
geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (106-24-1)	
LC50 - Fish [1]	≈ 22 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	10.8 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	10.8 mg/l waterflea
EC50 72h - Algae [1]	13.1 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
2,4-dimethylcyclohexene-3-carbaldehyde (68039-49-6)	
LC50 - Fish [1]	7.5 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	22.4 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	28 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	5.5 mg/l Source: EPISUITE v4.1
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
LC50 - Fish [1]	720 µg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	0.307 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	0.51 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	0.32 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.214 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

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linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (78-70-6)	
LC50 - Fish [1]	27.8 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	59 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	20 mg/l waterflea
EC50 - Other aquatic organisms [2]	88.3 mg/l
EC50 96h - Algae [1]	88.3 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [2]	156.7 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
7-methyl-3-methyleneocta-1,6-diene (123-35-3)	
EC50 - Crustacea [1]	1.47 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	0.342 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.31 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
Pin-2(3)-ene (80-56-8)	
LC50 - Fish [1]	0.303 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	0.475 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	1.44 mg/l waterflea
L-beta-pinene (18172-67-3)	
LC50 - Fish [1]	0.557 mg/l Test organisms (species): Cyprinus carpio
LC50 - Fish [2]	502 µg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	1248 mg/l Test organisms (species): Daphnia magna
EC50 96h - Algae [1]	0.563 mg/l Source: ECOSAR
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one (21145-77-7)	
EC50 72h - Algae [1]	> 0.81 mg/l Source: ECHA chem
Alkyl(hydrogenatedcastoroi)EO(>20) (61788-85-0)	
LC50 - Fish [1]	> 1 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
EC50 - Crustacea [1]	> 1 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 1 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
Isotridecanol, ethoxylated (69011-36-5)	
LC50 - Fish [1]	> 1 mg/l
EC50 - Crustacea [1]	1.5 mg/l Test organisms (species): Daphnia magna
EC50 - Other aquatic organisms [1]	> 1 mg/l waterflea
EC50 96h - Algae [1]	11.5 mg/l Source: EPISUITE v4.1
D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
LC50 - Fish [1]	100.81 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
LC50 - Fish [2]	170 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)

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D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 - Crustacea [2]	31.62 mg/l (OECD 202 method)
EC50 72h - Algae [1]	27.22 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	37 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC chronic fish	1.8 mg/l Brachydanio rerio (zebra-fish)
NOEC chronic crustacea	2 mg/l Daphnia magna (Water flea)
D-gluconic acid (526-95-4)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Oryzias latipes
EC50 - Crustacea [1]	> 1000 mg/l Test organisms (species): Daphnia magna
EC50 96h - Algae [1]	> 1000 mg/l Source: OECD Screening Information Data Set
oxalic acid (144-62-7)	
LC50 - Fish [1]	160 mg/l
EC50 - Crustacea [1]	162.2 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	19.83 – 21.35 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
N,N-dimethyltetradecylamine N-oxide (3332-27-2)	
LC50 - Fish [1]	2.67 mg/l
EC50 - Crustacea [1]	3.1 mg/l
ErC50 algae	0.19 mg/l
NOEC (chronic)	0.7 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.42 mg/l Test organisms (species): Pimephales promelas Duration: '302 d'
Phosphoric acid (7664-38-2)	
LC50 - Fish [1]	75.1 mg/l Source: ECHA
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

12.2. Persistence and degradability

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Persistence and degradability	The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.
Dodecanal (112-54-9)	
Persistence and degradability	Rapidly degradable
2-methylundecanal (110-41-8)	
Persistence and degradability	Rapidly degradable

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Pentyl salicylate (2050-08-0)	
Persistence and degradability	Rapidly degradable
Anethole (104-46-1)	
Persistence and degradability	Rapidly degradable
Benzyl acetate (140-11-4)	
Persistence and degradability	Rapidly degradable
[3R-(3α,3β,7β,8α)]-2,3,4,7,8,8a-hexahydro-3,6,8,8-tetramethyl-1H-3a,7-methanoazulene (469-61-4)	
Persistence and degradability	Rapidly degradable
Citronellol (106-22-9)	
Persistence and degradability	Rapidly degradable
Coumarin (91-64-5)	
Persistence and degradability	Rapidly degradable
2-methyl-4-isopropylidihydrocinnamaldehyde (103-95-7)	
Persistence and degradability	Rapidly degradable
cineole (470-82-6)	
Persistence and degradability	Rapidly degradable
Eugenol (97-53-0)	
Persistence and degradability	Rapidly degradable
geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (106-24-1)	
Persistence and degradability	Rapidly degradable
2,4-dimethylcyclohexene-3-carbaldehyde (68039-49-6)	
Persistence and degradability	Rapidly degradable
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
Persistence and degradability	Rapidly degradable
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (78-70-6)	
Persistence and degradability	Rapidly degradable
7-methyl-3-methyleneocta-1,6-diene (123-35-3)	
Persistence and degradability	Rapidly degradable
Pin-2(3)-ene (80-56-8)	
Persistence and degradability	Rapidly degradable
L-beta-pinene (18172-67-3)	
Persistence and degradability	Rapidly degradable
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one (21145-77-7)	
Persistence and degradability	Rapidly degradable
Alkyl(hydrogenatedcastoroil)EO(>20) (61788-85-0)	
Persistence and degradability	Rapidly degradable

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Water (7732-18-5)	
Persistence and degradability	Rapidly degradable
Isotridecanol, ethoxylated (69011-36-5)	
Persistence and degradability	Rapidly degradable
D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
Persistence and degradability	Readily biodegradable.
Biodegradation	100 % (OECD 301E method)
D-gluconic acid (526-95-4)	
Persistence and degradability	Rapidly degradable
Evernia Prunastri extract (9000-50-4)	
Persistence and degradability	Rapidly degradable
oxalic acid (144-62-7)	
Persistence and degradability	Rapidly degradable
Biochemical oxygen demand (BOD)	0.16 g O ₂ /g substance
Chemical oxygen demand (COD)	0.18 g O ₂ /g substance
Biodegradation	40 %
N,N-dimethyltetradecylamine N-oxide (3332-27-2)	
Persistence and degradability	Rapidly degradable
Biodegradation	80 % (OECD 310 method)
Phosphoric acid (7664-38-2)	
Persistence and degradability	Rapidly degradable
12.3. Bioaccumulative potential	
Dodecanal (112-54-9)	
Partition coefficient n-octanol/water (Log Pow)	5.16
2-methylundecanal (110-41-8)	
Partition coefficient n-octanol/water (Log Pow)	4.67 Source: NLM;ChemIDPlus
Pentyl salicylate (2050-08-0)	
Partition coefficient n-octanol/water (Log Pow)	4.57 Source: ChemIDplus
Anethole (104-46-1)	
Partition coefficient n-octanol/water (Log Pow)	3.39
Benzyl acetate (140-11-4)	
Partition coefficient n-octanol/water (Log Pow)	1.96
Citronellol (106-22-9)	
Partition coefficient n-octanol/water (Log Pow)	3.1
Coumarin (91-64-5)	
Partition coefficient n-octanol/water (Log Pow)	1.39

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2-methyl-4-isopropylidihydrocinnamaldehyde (103-95-7)	
Partition coefficient n-octanol/water (Log Pow)	3.91 Source: Ecological Structure Activity Relationships
cineole (470-82-6)	
Partition coefficient n-octanol/water (Log Pow)	2.74
Eugenol (97-53-0)	
Partition coefficient n-octanol/water (Log Pow)	2.27
geraniol; (2E)-3,7-dimethylocta-2,6-dien-1-ol (106-24-1)	
Partition coefficient n-octanol/water (Log Pow)	3.5
2,4-dimethylcyclohexene-3-carbaldehyde (68039-49-6)	
Partition coefficient n-octanol/water (Log Pow)	2.7
(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)	
Partition coefficient n-octanol/water (Log Pow)	4.38
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2.84
7-methyl-3-methyleneocta-1,6-diene (123-35-3)	
Partition coefficient n-octanol/water (Log Pow)	4.17
Pin-2(3)-ene (80-56-8)	
Partition coefficient n-octanol/water (Log Pow)	4.32
L-beta-pinene (18172-67-3)	
Partition coefficient n-octanol/water (Log Pow)	4.35
Water (7732-18-5)	
Partition coefficient n-octanol/water (Log Pow)	-1.38
D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
Bioconcentration factor (BCF REACH)	< 100
Partition coefficient n-octanol/water (Log Kow)	≤ -0.07 at 20 °C
D-gluconic acid (526-95-4)	
Partition coefficient n-octanol/water (Log Pow)	-1.87
oxalic acid (144-62-7)	
Partition coefficient n-octanol/water (Log Pow)	-0.81
N,N-dimethyltetradecylamine N-oxide (3332-27-2)	
Partition coefficient n-octanol/water (Log Pow)	2.7
Phosphoric acid (7664-38-2)	
Partition coefficient n-octanol/water (Log Pow)	-0.77
12.4. Mobility in soil	
2-methylundecanal (110-41-8)	
Mobility in soil	192.1 Source: EPISUITE

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Citronellol (106-22-9)	
Mobility in soil	70.79 Source: Quantitative Structure Activity Relation
Coumarin (91-64-5)	
Mobility in soil	140 Source: National Library of Medicine/Hazardous Substances Data Bank
2-methyl-4-isopropylidihydrocinnamaldehyde (103-95-7)	
Mobility in soil	2.859 Source: Quantitative Structure Activity Relation
cineole (470-82-6)	
Mobility in soil	223.9 Source: EPISUITE
Eugenol (97-53-0)	
Mobility in soil	409 Source: HSDB
2,4-dimethylcyclohexene-3-carbaldehyde (68039-49-6)	
Mobility in soil	187.2 Source: EPISUITE v4.1
linalool; 3,7-dimethyl-1,6-octadien-3-ol; dl-linalool (78-70-6)	
Mobility in soil	76 Source: HSDB
Pin-2(3)-ene (80-56-8)	
Mobility in soil	2600 Source: HSDB
1-(5,6,7,8-tetrahydro-3,5,5,6,8,8-hexamethyl-2-naphthyl)ethan-1-one (21145-77-7)	
Mobility in soil	18770 Source: EPISUITE v4.1
Alkyl(hydrogenatedcastoroil)EO(>20) (61788-85-0)	
Mobility in soil	2060000000 Source: EPI SUITE
Isotridecanol, ethoxylated (69011-36-5)	
Mobility in soil	111.3 Source: EPISUITE v4.1
D-Glucopyranose, oligomers, decyl octyl glycosides (68515-73-1)	
Mobility in soil	0.2624 Source: EPISUITE
N,N-dimethyltetradecylamine N-oxide (3332-27-2)	
Mobility in soil	3.99 Source: Quantitative Structure Activity Relation

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

12.7. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation : Dispose of in accordance with relevant local regulations.






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SECTION 14: Transport information

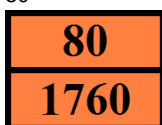
In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
UN 1760	UN 1760	UN 1760	UN 1760	UN 1760
14.2. UN proper shipping name				
CORROSIVE LIQUID, N.O.S. (Phosphoric acid)	CORROSIVE LIQUID, N.O.S. (Phosphoric acid)	Corrosive liquid, n.o.s. (Phosphoric acid)	CORROSIVE LIQUID, N.O.S. (Phosphoric acid)	CORROSIVE LIQUID, N.O.S. (Phosphoric acid)
Transport document description				
UN 1760 CORROSIVE LIQUID, N.O.S. (Phosphoric acid), 8, III, (E)	UN 1760 CORROSIVE LIQUID, N.O.S. (Phosphoric acid), 8, III	UN 1760 Corrosive liquid, n.o.s. (Phosphoric acid), 8, III	UN 1760 CORROSIVE LIQUID, N.O.S. (Phosphoric acid), 8, III	UN 1760 CORROSIVE LIQUID, N.O.S. (Phosphoric acid), 8, III
14.3. Transport hazard class(es)				
8	8	8	8	8
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment: Dangerous for the environment	Dangerous for the environment: Dangerous for the environment Marine pollutant: No	Dangerous for the environment: Dangerous for the environment	Dangerous for the environment: Dangerous for the environment	Dangerous for the environment: Dangerous for the environment
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: C9
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP1, TP28
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Hazard identification number (Kemler No.)	: 80
Orange plates	:



Tunnel restriction code (ADR)	: E
EAC code	: 2X

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Transport by sea

Special provisions (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Stowage and handling (IMDG)	: SW2
Properties and observations (IMDG)	: Causes burns to skin, eyes and mucous membranes.

Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8L

Inland waterway transport

Classification code (ADN)	: C9
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: T
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0

Rail transport

Classification code (RID)	: C9
Special provisions (RID)	: 274
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP1, TP28
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 80

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

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PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

Detergent Regulation (648/2004)

Labelling of contents	
Component	%
non-ionic surfactants, amphoteric surfactants	<5%
perfumes	

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. United Kingdom

UK REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

UK REACH Candidate List (SVHC)

Contains no substance(s) listed on the UK REACH Candidate List

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
EUH071	Corrosive to the respiratory tract.
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.

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Full text of H- and EUH-statements:	
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Corr. 1C	Skin corrosion/irritation, Category 1, Sub-Category 1C
Skin Irrit. 2	Skin corrosion/irritation, Category 2

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.