



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 12/11/2023

Revision Number 1

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

1.1. Product identifier

Product Name	Astonish Kitchen Cleaner
Product Code(s)	961801
Safety data sheet number	04948
Unique Formula Identifier (UFI)	R4JM-J5KN-E4C1-NTNH

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

Recommended use	Hard surface cleaning.
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Uses advised against

1.3. Details of the supplier of the safety data sheet

Manufacturer

The London Oil Refining Company Ltd
Astonish House
Unit 8 Thornbury Ind. Est.
Woodhall Road
Bradford BD3 7AF, UK
Tel: +44 1274 767440 (8pm-4pm Mon-Fri) www.astonishcleaners.com
Astonish Cleaner Europe Ltd
38 Main Street
Swords
Co. Dublin
Republic of Ireland
K67E0A2
Tel: +353 768 885288 (8am-4pm Mon-Fri)
www.astonishcleaners.eu
For further information, please contact

E-mail address	info@astonish.co.uk info@astonishcleaners.eu
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1.4. Emergency telephone number

Emergency Telephone	ROI - Emergency Telephone: +353 768 885288 (8am-4pm Mon-Fri) Poisons Information Centre of Ireland (ROI): +353 (1) 8092166 (8am-10pm 7 days a week)
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Emergency Telephone - §45 - (EC)1272/2008

Europe 112

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture***Regulation (EC) No 1272/2008*

Serious eye damage/eye irritation

Category 2 H319

2.2. Label elements

< 5% amphoteric surfactants, < 5% EDTA and salts thereof, < 5% non-ionic surfactants, < 5% perfumes

**Signal word**

Warning

Hazard statements

H319 - Causes serious eye irritation

Precautionary Statements - EU (§28, 1272/2008)

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

P264 - Wash hands thoroughly after handling.

P280 - Wear eye protection/ face protection.

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

P337 + P313 - If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

No information available.

Endocrine Disruptor Information

This product does not contain any known or suspected endocrine disruptors.

SECTION 3: Composition/information on ingredients**3.1 Substances**

Not applicable

3.2 Mixtures

Chemical name	Weight-%	REACH registration number	EC No (EU Index No)	Classification according to	Specific concentration	M-Factor	M-Factor (long-term)
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				Regulation (EC) No. 1272/2008 [CLP]	limit (SCL)		
WATER -	50 - <100%	No data available	-	No data available	-	-	-
Undecanol, branched and linear, ethoxylated (>5-15 EO) 68439-46-3	1 - <2.5%	No data available	-	Acute Tox. 4 (H302) Eye Dam. 1 (H318)	-	-	-
Butyl Diglycol 112-34-5	0.5 - <1%	01-2119475104-44-00 00	(603-096-00 -8) 203-961-6	Eye Irrit. 2 (H319)	-	-	-
Tetrasodium ethylene diamine tetraacetate 64-02-8	0.5 - <1%	01-2119486762-27-00 00	(607-428-00 -2) 200-573-9	Acute Tox. 4 (H332) STOT RE 2 (H373) Acute Tox. 4 (H302) Eye Dam. 1 (H318)	-	-	-
Cocamidopropyl Betaine -	0.5 - <1%	01-2119488533-30-00 00	931-296-8	Aquatic Chronic 3 (H412) Eye Dam. 1 (H318)	-	-	-
Amines, C12-18(even numbered)-alkyldim ethyl, N-oxides 68955-55-5	0.5 - <1%	01-2119489396-21-00 00	931-341-1	Aquatic Chronic 2 (H411) Aquatic Acute 1 (H400) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	-	-	-
Citric Acid Kosher 5949-29-1	0.025 - <0.25%	01-2119457026-42-00 15	201-069-1	Eye Irrit. 2 (H319)	-	-	-
Sodium Hydroxide 1310-73-2	0.025 - <0.25%	01-2119457892-27-00 00	(011-002-00 -6) 215-185-5	Skin Corr. 1A (H314) Met. Corr. 1 (H290)	Eye Irrit. 2 :: 0.5%<=C<2% Skin Corr. 1A :: C>=5% Skin Corr. 1B :: 2%<=C<5% Skin Irrit. 2 :: 0.5%<=C<2%	-	-
Terpineol 8000-41-7	<0.025%	No data available	232-268-1	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	-	-	-
terpenes & terpenoids, simpine 68917-63-5	<0.025%	01-2120260054-67-00 00	272-842-9	Aquatic Chronic 2 (H411) Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Skin Sens. 1A (H317) Skin Irrit. 2 (H315)	-	-	-
d-Limonene 5989-27-5	<0.025%	01-2119529223-47-00 00	227-813-5	Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Aquatic Chronic 1 (H410) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	1	1
n-Octanal 124-13-0	<0.025%	No data available	204-683-8	Aquatic Chronic 2 (H411) Flam. Liq. 3 (H226) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	-	-	-
3,7-Dimethyl-2(3),6- Nonadienitrile 61792-11-8	<0.025%	01-2119967769-11-00 00	263-214-5	Aquatic Chronic 2 (H411)	-	-	-
Citral 5392-40-5	<0.025%	01-2119462829-23-00 00	(605-019-00 -3) 226-394-6	Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	-	-	-

dipentene 138-86-3	<0.025%	No data available	(601-029-00 -7) 205-341-0	Flam. Liq. 3 (H226) Skin Sens. 1 (H317) Aquatic Chronic 1 (H410) Aquatic Acute 1 (H400) Skin Irrit. 2 (H315)	-	-	-
alpha-Terpinolene 586-62-9	<0.025%	No data available	209-578-0	Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Skin Sens. 1 (H317) Aquatic Chronic 1 (H410)	-	-	-
Decanal 112-31-2	<0.025%	No data available	203-957-4	Eye Irrit. 2 (H319)	-	-	-
dl-Citronellol 106-22-9	<0.025%	01-2119453995-23-00 00	203-375-0	Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	-	-	-
p-(2-methylpropyl)-4- hydroxy-4-methyl tetrahydropyran 63500-71-0	<0.025%	No data available	405-040-6	Eye Irrit. 2 (H319)	-	-	-
4-tert.-Butylcyclohex yl acetate 32210-23-4	<0.025%	No data available	250-954-9	Aquatic Chronic 2 (H411) Skin Sens. 1B (H317)	-	-	-
3-octanol, 3,7-dimethyl 78-69-3	<0.025%	No data available	201-133-9	Flam. Liq. 3 (H226) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	-	-	-
2,6-dimethyloct-7-en -2-ol 18479-58-8	<0.025%	No data available	242-362-4	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	-	-	-
Hexyl cinnamal 101-86-0	<0.025%	01-2119533092-50-00 00	202-983-3	Aquatic Chronic 2 (H411) Aquatic Acute 1 (H400) Skin Sens. 1B (H317)	-	-	-
Geraniol 106-24-1	<0.025%	01-2119552430-49-00 00	203-377-1	Skin Sens. 1 (H317) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	-	-	-
Diphenyl ether 101-84-8	<0.025%	No data available	202-981-2	Aquatic Chronic 2 (H411) Eye Irrit. 2 (H319)	-	-	-
para-Cymene 99-87-6	<0.025%	No data available	202-796-7	Aquatic Chronic 2 (H411) Asp. Tox. 1 (H304) Flam. Liq. 3 (H226)	-	-	-
DimethylCycloHex-3- ene-1-Carboxaldeh yde 68039-49-6	<0.025%	No data available	268-264-1	Aquatic Chronic 2 (H411) Flam. Liq. 3 (H226) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
beta-Pinene 127-91-3	<0.025%	No data available	204-872-5	Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
Tartrazine 400% 1934-21-0	<0.025%	No data available	217-699-5	No data available	-	-	-
2-Methylundecanal 110-41-8	<0.025%	No data available	203-983-6	Aquatic Chronic 1 (H410) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Skin Irrit. 2 (H315)	-	-	-

				Skin Sens. 1B (H317)			
3,7-dimethyl-6-octen-1-ol 106-23-0	<0.025%	01-2119474900-37-000	203-376-6	Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	-	-	-
Eucalyptol 470-82-6	<0.025%	No data available	207-431-5	Flam. Liq. 3 (H226) Skin Sens. 1B (H317)	-	-	-
2-Methyl-3-(p-isopropylphenyl)Propionaldehyde 103-95-7	<0.025%	No data available	203-161-7	Aquatic Chronic 3 (H412) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
Elemi Oil 8023-89-0	<0.025%	01-2120735788-38-000	945-898-3	Aquatic Chronic 2 (H411) Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
Lemon Oil 8008-56-8	<0.025%	No data available	-	Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Aquatic Chronic 1 (H410) Aquatic Acute 1 (H400) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
Amyl salicylate 2050-08-0	<0.025%	No data available	218-080-2	Aquatic Chronic 1 (H410) Acute Tox. 4 (H302)	-	-	-
l-p-Mentha-1(6),8-dien-2-one 6485-40-1	<0.025%	No data available	229-352-5	Skin Sens. 1B (H317)	-	-	-
3,7-dimethyl-2,6-octadien-1-ol 106-25-2	<0.025%	No data available	203-378-7	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran 16409-43-1	<0.025%	No data available	240-457-5	Aquatic Chronic 3 (H412) Repr. 2 (H361) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	-	-	-
Linalool 78-70-6	<0.025%	01-2119474016-42-000	201-134-4	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
Dodecanal 112-54-9	<0.025%	No data available	203-983-6	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	-	-	-
Linalyl acetate 115-95-7	<0.025%	No data available	204-116-4	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	-	-	-
Allyl hexanoate 123-68-2	<0.025%	No data available	204-642-4	Aquatic Chronic 3 (H412) Aquatic Acute 1 (H400) Acute Tox. 3 (H311) Acute Tox. 3 (H301) Acute Tox. 3 (H331)	-	-	-
Longifolene 475-20-7	<0.025%	No data available	207-491-2	Asp. Tox. 1 (H304) Aquatic Chronic 1 (H410) Skin Sens. 1B (H317)	-	-	-
Eugenol 97-53-0	<0.025%	No data available	202-589-1	Eye Irrit. 2 (H319) Skin Sens. 1B (H317)	-	-	-
delta-1-(2,6,6-Trimethyl-3-cyclohexen-1-	<0.025%	No data available	260-709-8	Skin Sens. 1 (H317) Aquatic Chronic 1	-	-	-

yl)-2-buten-1-one 57378-68-4				(H410) Acute Tox. 4 (H302) Skin Irrit. 2 (H315)			
benzyl benzoate 120-51-4	<0.025%	No data available	(607-085-00 -9) 204-402-9	Aquatic Chronic 2 (H411) Aquatic Acute 1 (H400) Acute Tox. 4 (H302)	-	-	-
benzyl alcohol 100-51-6	<0.025%	01-2119492630-38-00 00	(603-057-00 -5) 202-859-9	Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	-	-	-

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

Acute Toxicity Estimate

No information available

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Undecanol, branched and linear, ethoxylated (>5-15 EO) 68439-46-3	1400	No data available	No data available	No data available	No data available
Butyl Diglycol 112-34-5	5660	2700	No data available	No data available	No data available
Tetrasodium ethylene diamine tetraacetate 64-02-8	1658	No data available	No data available	No data available	No data available
Amines, C12-18(even numbered)-alkyldimethyl, N-oxides 68955-55-5	No data available	2000	No data available	No data available	No data available
Citric Acid Koshier 5949-29-1	3000	2000	No data available	No data available	No data available
Sodium Hydroxide 1310-73-2	325	1350	No data available	No data available	No data available
Terpineol 8000-41-7	2900	3000	No data available	No data available	No data available
d-Limonene 5989-27-5	5200 4400	5000	No data available	No data available	No data available
n-Octanal 124-13-0	4616	5207	No data available	No data available	No data available
3,7-Dimethyl-2(3),6-Nona dienitrile 61792-11-8	2600	No data available	No data available	No data available	No data available
Citral 5392-40-5	4960	2250	No data available	No data available	No data available
dipentene 138-86-3	5300	No data available	No data available	No data available	No data available
alpha-Terpinolene 586-62-9	4390	2000	No data available	No data available	No data available
Decanal 112-31-2	3730	5040	No data available	No data available	No data available
dl-Citronellol 106-22-9	3450	2650	No data available	No data available	No data available
p-(2-methylpropyl)-4-hydr oxy-4-methyl tetrahydropyran 63500-71-0	No data available	2000	No data available	No data available	No data available
4-tert.-Butylcyclohexyl	5000	5000	No data available	No data available	No data available

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
acetate 32210-23-4					
3-octanol, 3,7-dimethyl 78-69-3	5000	5000	No data available	No data available	No data available
2,6-dimethyloct-7-en-2-ol 18479-58-8	3600	5000	No data available	No data available	No data available
Hexyl cinnamal 101-86-0	3100	3000	No data available	No data available	No data available
Geraniol 106-24-1	3600	5000	No data available	No data available	No data available
Diphenyl ether 101-84-8	2450	7940	No data available	No data available	No data available
para-Cymene 99-87-6	4750	5000	No data available	3 *	No data available
beta-Pinene 127-91-3	5000	5000	No data available	No data available	No data available
Tartrazine 400% 1934-21-0	2000	No data available	No data available	No data available	No data available
2-Methylundecanal 110-41-8	5000	9970	No data available	No data available	No data available
3,7-dimethyl-6-octen-1-ol 106-23-0	2420	2500	No data available	No data available	No data available
Eucalyptol 470-82-6	2480	No data available	No data available	No data available	No data available
2-Methyl-3-(p-isoPropylP henyl)Propionaldehyde 103-95-7	3810	5000	No data available	No data available	No data available
Elemi Oil 8023-89-0	3370	No data available	No data available	No data available	No data available
Lemon Oil 8008-56-8	2840	No data available	No data available	No data available	No data available
Amyl salicylate 2050-08-0	4100	5000	No data available	No data available	No data available
l-p-Mentha-1(6),8-dien-2- one 6485-40-1	5400	2000	No data available	No data available	No data available
3,7-dimethyl-2,6-octadien -1-ol 106-25-2	4500	5000	No data available	No data available	No data available
Tetrahydro-4-methyl-2-(2- methylpropen-1-yl)pyran 16409-43-1	4300	No data available	No data available	No data available	No data available
Linalool 78-70-6	2790	5610	No data available	No data available	No data available
Dodecanal 112-54-9	23000	2000	No data available	No data available	No data available
Linalyl acetate 115-95-7	14550	5000	No data available	No data available	No data available
Allyl hexanoate 123-68-2	No data available	820	No data available	No data available	No data available
Longifolene 475-20-7	5000	No data available	No data available	No data available	No data available
Eugenol 97-53-0	1930	No data available	No data available	No data available	No data available
benzyl benzoate 120-51-4	500	4000	No data available	No data available	No data available
benzyl alcohol	1230	2000	4.178	No data available	No data available

Chemical name	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapor - mg/L	Inhalation LC50 - 4 hour - gas - ppm
100-51-6					

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Rinse mouth.

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

Symptoms	No information available.
Effects of Exposure	See Section 11 for additional Toxicological Information.

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

Note to physicians	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
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	No information available.
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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.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	See Section 12 for additional Ecological Information.
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6.3. Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See section 13 for more information.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling	Ensure adequate ventilation.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep container tightly closed in a dry and well-ventilated place.
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7.3. Specific end use(s)

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

8.1. Control parameters

Exposure Limits

Chemical name	European Union	Austria	Belgium	Bulgaria	Croatia
Butyl Diglycol 112-34-5	TWA: 10 ppm TWA: 67.5 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³	STEL: 15 ppm STEL: 101.2 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³

		STEL 15 ppm STEL 101.2 mg/m ³	STEL: 15 ppm STEL: 101.2 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³	STEL: 15 ppm STEL: 101.2 mg/m ³
Sodium Hydroxide 1310-73-2	-	TWA: 2 mg/m ³ STEL 4 mg/m ³	TWA: 2 mg/m ³	TWA: 2.0 mg/m ³	STEL: 2 mg/m ³
Citral 5392-40-5	-	-	TWA: 5 ppm TWA: 32 mg/m ³ D*	-	-
Diphenyl ether 101-84-8	STEL: 14 mg/m ³ STEL: 2 ppm TWA: 7 mg/m ³ TWA: 1 ppm	TWA: 1 ppm TWA: 7 mg/m ³ STEL 2 ppm STEL 14 mg/m ³	TWA: 1 ppm TWA: 7 mg/m ³ STEL: 2 ppm STEL: 14 mg/m ³	STEL: 14 mg/m ³ STEL: 2 ppm TWA: 7 mg/m ³ TWA: 1 ppm	TWA: 1 ppm TWA: 7 mg/m ³ STEL: 2 ppm STEL: 14 mg/m ³
beta-Pinene 127-91-3	-	-	TWA: 20 ppm	-	-
benzyl alcohol 100-51-6	-	-	-	TWA: 5.0 mg/m ³	-
Chemical name	Cyprus	Czech Republic	Denmark	Estonia	Finland
Butyl Diglycol 112-34-5	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	TWA: 100 mg/m ³ Ceiling: 100 mg/m ³	TWA: 10 ppm TWA: 68 mg/m ³ STEL: 101 mg/m ³ STEL: 15 ppm	TWA: 10 ppm TWA: 67.5 mg/m ³	TWA: 10 ppm TWA: 68 mg/m ³
Citric Acid Kosher 5949-29-1	-	TWA: 4 mg/m ³	-	-	-
Sodium Hydroxide 1310-73-2	-	TWA: 1 mg/m ³ Ceiling: 2 mg/m ³	Ceiling: 2 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³	Ceiling: 2 mg/m ³
d-Limonene 5989-27-5	-	-	-	TWA: 25 ppm TWA: 150 mg/m ³ STEL: 50 ppm STEL: 300 mg/m ³	TWA: 25 ppm TWA: 140 mg/m ³ STEL: 50 ppm STEL: 280 mg/m ³
dipentene 138-86-3	-	-	-	TWA: 25 ppm TWA: 150 mg/m ³ STEL: 50 ppm STEL: 300 mg/m ³	-
Diphenyl ether 101-84-8	STEL: 14 mg/m ³ STEL: 2 ppm TWA: 7 mg/m ³ TWA: 1 ppm	TWA: 5 mg/m ³ Ceiling: 10 mg/m ³	TWA: 1 ppm TWA: 7 mg/m ³ STEL: 14 mg/m ³ STEL: 2 ppm	TWA: 1 ppm TWA: 7 mg/m ³ STEL: 2 ppm STEL: 14 mg/m ³	TWA: 1 ppm TWA: 7 mg/m ³ STEL: 2 ppm STEL: 14 mg/m ³
para-Cymene 99-87-6	-	-	TWA: 25 ppm TWA: 135 mg/m ³ STEL: 50 ppm STEL: 270 mg/m ³	TWA: 25 ppm TWA: 140 mg/m ³ STEL: 35 ppm STEL: 190 mg/m ³	-
beta-Pinene 127-91-3	-	-	-	TWA: 25 ppm TWA: 150 mg/m ³ STEL: 50 ppm STEL: 300 mg/m ³	-
benzyl alcohol 100-51-6	-	TWA: 40 mg/m ³ Ceiling: 80 mg/m ³	-	-	TWA: 10 ppm TWA: 45 mg/m ³
Chemical name	France	Germany TRGS	Germany DFG	Greece	Hungary
Butyl Diglycol 112-34-5	TWA: 10 ppm TWA: 68 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	TWA: 10 ppm TWA: 67 mg/m ³	TWA: 67 mg/m ³ TWA: 10 ppm Peak: 15 ppm Peak: 100.5 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³
Citric Acid Kosher 5949-29-1	-	TWA: 2 mg/m ³	TWA: 2 mg/m ³ Peak: 4 mg/m ³	-	-
Sodium Hydroxide 1310-73-2	TWA: 2 mg/m ³	-	-	TWA: 2 mg/m ³ STEL: 2 mg/m ³	TWA: 1 mg/m ³ STEL: 2 mg/m ³
d-Limonene 5989-27-5	TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	TWA: 5 ppm TWA: 28 mg/m ³ Sh+ H*	TWA: 5 ppm TWA: 28 mg/m ³ Peak: 20 ppm Peak: 112 mg/m ³	-	-

			*		
			skin sensitizer		
dipentene 138-86-3	TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	-	skin sensitizer	-	-
alpha-Terpinolene 586-62-9	TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	-	-	-	-
Geraniol 106-24-1	-	-	skin sensitizer	-	-
Diphenyl ether 101-84-8	TWA: 1 ppm TWA: 7 mg/m ³ STEL: 2 ppm STEL: 14 mg/m ³	TWA: 1 ppm TWA: 7.1 mg/m ³	TWA: 1 ppm TWA: 7.1 mg/m ³ Peak: 1 ppm Peak: 7.1 mg/m ³	TWA: 1 ppm TWA: 7 mg/m ³ STEL: 2 ppm STEL: 14 mg/m ³	TWA: 1 ppm TWA: 7 mg/m ³ STEL: 2 ppm STEL: 14 mg/m ³
para-Cymene 99-87-6	TWA: 150 mg/m ³ TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	-	-	-	-
beta-Pinene 127-91-3	TWA: 1000 mg/m ³ STEL: 1500 mg/m ³	-	-	-	-
Eugenol 97-53-0	-	-	skin sensitizer	-	-
benzyl alcohol 100-51-6	-	TWA: 5 ppm TWA: 22 mg/m ³ H*	TWA: 22 mg/m ³ TWA: 5 ppm Peak: 44 mg/m ³ Peak: 10 ppm *	-	-
Chemical name	Ireland	Italy MDLPS	Italy AIDII	Latvia	Lithuania
Butyl Diglycol 112-34-5	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	TWA: 10 ppm TWA: 66 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	STEL: 101.2 mg/m ³ STEL: 15 ppm TWA: 67.5 mg/m ³ TWA: 10 ppm
Sodium Hydroxide 1310-73-2	STEL: 2 mg/m ³	-	Ceiling: 2 mg/m ³	TWA: 0.5 mg/m ³	Ceiling: 2 mg/m ³
d-Limonene 5989-27-5	-	-	-	-	STEL: 50 ppm STEL: 300 mg/m ³ J+ TWA: 25 ppm TWA: 150 mg/m ³
Citral 5392-40-5	TWA: 5 ppm STEL: 15 ppm	-	TWA: 5 ppm TWA: 31 mg/m ³ senD+ cute*	-	-
dipentene 138-86-3	-	-	-	-	STEL: 50 ppm STEL: 300 mg/m ³ J+ TWA: 25 ppm TWA: 150 mg/m ³
Diphenyl ether 101-84-8	TWA: 1 ppm TWA: 7 mg/m ³ STEL: 2 ppm STEL: 14 mg/m ³	TWA: 7 mg/m ³ TWA: 1 ppm	TWA: 1 ppm TWA: 7 mg/m ³ STEL: 2 ppm STEL: 14 mg/m ³	TWA: 7 mg/m ³ TWA: 1 ppm STEL: 14 mg/m ³ STEL: 2 ppm	STEL: 14 mg/m ³ STEL: 2 ppm TWA: 7 mg/m ³ TWA: 1 ppm
para-Cymene 99-87-6	-	-	-	TWA: 10 mg/m ³	STEL: 35 ppm STEL: 190 mg/m ³ TWA: 25 ppm TWA: 140 mg/m ³
beta-Pinene 127-91-3	-	-	TWA: 20 ppm TWA: 111 mg/m ³ senD+	-	STEL: 50 ppm STEL: 300 mg/m ³ TWA: 25 ppm TWA: 150 mg/m ³
benzyl alcohol 100-51-6	-	-	-	TWA: 5 mg/m ³	TWA: 5 mg/m ³ O*

Chemical name	Luxembourg	Malta	Netherlands	Norway	Poland
Butyl Diglycol 112-34-5	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³ Peau*	STEL: 15 ppm STEL: 101.2 mg/m ³ TWA: 10 ppm TWA: 67.5 mg/m ³	TWA: 7.4 ppm TWA: 50 mg/m ³ STEL: 14.8 ppm STEL: 100 mg/m ³ H*	TWA: 10 ppm TWA: 68 mg/m ³ STEL: 20 ppm STEL: 102 mg/m ³	STEL: 100 mg/m ³ TWA: 67 mg/m ³
Sodium Hydroxide 1310-73-2	-	-	-	Ceiling: 2 mg/m ³	STEL: 1 mg/m ³ TWA: 0.5 mg/m ³
d-Limonene 5989-27-5	-	-	-	TWA: 25 ppm TWA: 140 mg/m ³ A+ STEL: 37.5 ppm STEL: 175 mg/m ³	-
Citral 5392-40-5	-	-	-	-	STEL: 54 mg/m ³ TWA: 27 mg/m ³
dipentene 138-86-3	-	-	-	TWA: 25 ppm TWA: 140 mg/m ³ A+ STEL: 37.5 ppm STEL: 175 mg/m ³	-
Diphenyl ether 101-84-8	STEL: 14 mg/m ³ STEL: 2 ppm TWA: 7 mg/m ³ TWA: 1 ppm	STEL: 2 ppm STEL: 14 mg/m ³ TWA: 1 ppm TWA: 7 mg/m ³	TWA: 1 ppm TWA: 7 mg/m ³ STEL: 2 ppm STEL: 14 mg/m ³	TWA: 1 ppm TWA: 7 mg/m ³ STEL: 2 ppm STEL: 14 mg/m ³	STEL: 14 mg/m ³ TWA: 7 mg/m ³
beta-Pinene 127-91-3	-	-	-	TWA: 25 ppm TWA: 140 mg/m ³ STEL: 37.5 ppm STEL: 175 mg/m ³	-
benzyl alcohol 100-51-6	-	-	-	-	TWA: 240 mg/m ³
Chemical name	Portugal	Romania	Slovakia	Slovenia	Spain
Butyl Diglycol 112-34-5	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 101.2 mg/m ³ STEL: 15 ppm	TWA: 67.5 mg/m ³ TWA: 10 ppm STEL: 15 ppm STEL: 101.2 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ Ceiling: 101.2 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³
Sodium Hydroxide 1310-73-2	Ceiling: 2 mg/m ³	TWA: 1 mg/m ³ STEL: 3 mg/m ³	TWA: 2 mg/m ³	-	STEL: 2 mg/m ³
d-Limonene 5989-27-5	-	-	-	TWA: 28 mg/m ³ TWA: 5 ppm STEL: 20 ppm STEL: 112 mg/m ³ K*	TWA: 30 ppm TWA: 168 mg/m ³ vía dérmica* Sen+
Citral 5392-40-5	TWA: 5 ppm Cutânea* Sensitizer dermal	-	-	-	TWA: 5 ppm vía dérmica* Sen+
dipentene 138-86-3	-	TWA: 700 mg/m ³ STEL: 1000 mg/m ³	-	-	-
Diphenyl ether 101-84-8	TWA: 1 ppm TWA: 7 mg/m ³ STEL: 2 ppm STEL: 14 mg/m ³	TWA: 0.7 ppm TWA: 5 mg/m ³ STEL: 1.4 ppm STEL: 10 mg/m ³	TWA: 1 ppm TWA: 7 mg/m ³ Ceiling: 7.1 mg/m ³	TWA: 1 ppm TWA: 7 mg/m ³ STEL: 14 mg/m ³ STEL: 2 ppm	TWA: 1 ppm TWA: 7.1 mg/m ³ STEL: 2 ppm STEL: 14.2 mg/m ³
beta-Pinene 127-91-3	TWA: 20 ppm Sensitizer dermal Turpentine and selected Monoterpenes	-	-	-	TWA: 20 ppm TWA: 113 mg/m ³ Sen+
benzyl alcohol 100-51-6	-	-	-	TWA: 22 mg/m ³ TWA: 5 ppm STEL: 10 ppm	-

				STEL: 44 mg/m ³ K*	
Chemical name	Sweden	Switzerland	United Kingdom		
Butyl Diglycol 112-34-5	Bindande KGV: 15 ppm Bindande KGV: 101 mg/m ³ NGV: 10 ppm NGV: 68 mg/m ³	TWA: 10 ppm TWA: 67 mg/m ³ STEL: 15 ppm STEL: 101 mg/m ³	TWA: 10 ppm TWA: 67.5 mg/m ³ STEL: 15 ppm STEL: 101.2 mg/m ³		
Citric Acid Kosher 5949-29-1	-	TWA: 2 mg/m ³ STEL: 4 mg/m ³	-		
Sodium Hydroxide 1310-73-2	Bindande KGV: 2 mg/m ³ NGV: 1 mg/m ³	TWA: 2 mg/m ³ STEL: 2 mg/m ³	STEL: 2 mg/m ³		
d-Limonene 5989-27-5	S+ NGV: 25 ppm NGV: 150 mg/m ³	S+ TWA: 7 ppm TWA: 40 mg/m ³ STEL: 14 ppm STEL: 80 mg/m ³	-		
dipentene 138-86-3	Vägledande KGV: 50 ppm Vägledande KGV: 300 mg/m ³ S+ NGV: 25 ppm NGV: 150 mg/m ³	-	-		
Diphenyl ether 101-84-8	Bindande KGV: 2 ppm Bindande KGV: 14 mg/m ³ NGV: 1 ppm NGV: 7 mg/m ³	TWA: 1 ppm TWA: 7 mg/m ³ STEL: 2 ppm STEL: 14 mg/m ³	TWA: 1 ppm TWA: 7 mg/m ³ STEL: 2 ppm STEL: 14 mg/m ³		
para-Cymene 99-87-6	Vägledande KGV: 35 ppm Vägledande KGV: 190 mg/m ³ NGV: 25 ppm NGV: 140 mg/m ³	-	-		
beta-Pinene 127-91-3	Vägledande KGV: 50 ppm Vägledande KGV: 300 mg/m ³ S+ NGV: 25 ppm NGV: 150 mg/m ³	-	-		
benzyl alcohol 100-51-6	-	TWA: 5 ppm TWA: 22 mg/m ³ H*	-		

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 No information available

Chemical name	Oral	Dermal	Inhalation
Undecanol, branched and linear, ethoxylated (>5-15 EO) 68439-46-3	-	2080 mg/kg bw/day [4] [6]	294 mg/m ³ [4] [6]
Butyl Diglycol 112-34-5	-	83 mg/kg bw/day [4] [6]	67.5 mg/m ³ [4] [6] 67.5 mg/m ³ [5] [6] 101.2 mg/m ³ [5] [7]
Amines, C12-18(even numbered)-alkyldimethyl, N-oxides 68955-55-5	-	11 mg/kg bw/day [4] [6]	6.2 mg/m ³ [4] [6]
Sodium Hydroxide 1310-73-2	-	-	1 mg/m ³ [5] [6]
3,7-Dimethyl-2(3),6-Nonadienitrile 61792-11-8	-	1.5 mg/kg bw/day [4] [6] 3 mg/kg bw/day [4] [7]	5.29 mg/m ³ [4] [6] 10.58 mg/m ³ [4] [7]

Chemical name	Oral	Dermal	Inhalation
		3.75 mg/cm ² [5] [6] 7.5 mg/cm ² [5] [7]	13.22 mg/m ³ [5] [6] 26.45 mg/m ³ [5] [7]
n-Octanal 124-13-0	-	0.37 mg/kg bw/day [4] [6]	1.3 mg/m ³ [4] [6]
Citral 5392-40-5	-	1.7 mg/kg bw/day [4] [6] 140 µg/cm ² [5] [6]	9 mg/m ³ [4] [6]
Decanal 112-31-2	-	7.05 mg/kg bw/day [4] [6] 14.1 mg/kg bw/day [4] [7] 17.62 mg/cm ² [5] [6] 35.24 mg/cm ² [5] [7]	24.86 mg/m ³ [4] [6] 49.71 mg/m ³ [4] [7] 62.14 mg/m ³ [5] [6] 124.28 mg/m ³ [5] [7]
dl-Citronellol 106-22-9	-	327.4 mg/kg bw/day [4] [6] 2950 µg/cm ² [5] [7]	161.6 mg/m ³ [4] [6] 10 mg/m ³ [5] [6] 10 mg/m ³ [5] [7]
p-(2-methylpropyl)-4-hydroxy-4-methyl tetrahydropyran 63500-71-0	-	41.7 mg/kg bw/day [4] [6]	44.1 mg/m ³ [4] [6]
3-octanol, 3,7-dimethyl 78-69-3	-	3.16 mg/kg bw/day [4] [6] 190 µg/cm ² [5] [6]	11.14 mg/m ³ [4] [6]
2,6-dimethyloct-7-en-2-ol 18479-58-8	-	20.8 mg/kg bw/day [4] [6]	73.5 mg/m ³ [4] [6]
Geraniol 106-24-1	-	12.5 mg/kg bw/day [4] [6] 11800 µg/cm ² [5] [6]	161.6 mg/m ³ [4] [6]
Diphenyl ether 101-84-8	-	25 mg/kg bw/day [4] [6]	59 mg/m ³ [4] [6] 7 mg/m ³ [5] [6] 14 mg/m ³ [5] [7]
Tartrazine 400% 1934-21-0	-	52.82 mg/kg bw/day [4] [6]	372.52 mg/m ³ [4] [6]
2-Methylundecanal 110-41-8	-	10.46 mg/kg bw/day [4] [6] 100 mg/kg bw/day [4] [7] 35.7 mg/cm ² [5] [6] 71.43 mg/cm ² [5] [7]	36.89 mg/m ³ [4] [6] 352.63 mg/m ³ [4] [7] 92.21 mg/m ³ [5] [6] 881.58 mg/m ³ [5] [7]
3,7-dimethyl-6-octen-1-al 106-23-0	-	1.7 mg/kg bw/day [4] [6] 140 µg/cm ² [5] [6]	9 mg/m ³ [4] [6]
Eucalyptol 470-82-6	-	2 mg/kg bw/day [4] [6]	7.05 mg/m ³ [4] [6]
2-Methyl-3-(p-isoPropylPhenyl)Propion aldehyde 103-95-7	-	1.67 mg/kg bw/day [4] [6] 7.43 µg/cm ² [5] [6]	5.83 mg/m ³ [4] [6]
Amyl salicylate 2050-08-0	-	0.9 mg/kg bw/day [4] [6]	3.17 mg/m ³ [4] [6]
3,7-dimethyl-2,6-octadien-1-ol 106-25-2	-	1.25 mg/kg bw/day [4] [6]	4.4 mg/m ³ [4] [6]
Tetrahydro-4-methyl-2-(2-methylprope n-1-yl)pyran 16409-43-1	-	0.3 mg/kg bw/day [4] [6]	1.2 mg/m ³ [4] [6]
Linalool 78-70-6	-	2.5 mg/kg bw/day [4] [6] 5 mg/kg bw/day [4] [7] 3 mg/cm ² [5] [6] 3 mg/cm ² [5] [7]	2.8 mg/m ³ [4] [6] 16.5 mg/m ³ [4] [7]
Dodecanal 112-54-9	-	14.1 mg/kg bw/day [4] [6] 0.57 µg/cm ² [5] [6]	49.7 mg/m ³ [4] [6]
Linalyl acetate 115-95-7	-	2.5 mg/kg bw/day [4] [6] 236.2 µg/cm ² [5] [6] 236.2 µg/cm ² [5] [7]	2.75 mg/m ³ [4] [6]
Allyl hexanoate 123-68-2	-	4.3 mg/kg bw/day [4] [6]	15 mg/m ³ [4] [6]
Eugenol 97-53-0	-	6 mg/kg bw/day [4] [6]	21.2 mg/m ³ [4] [6]

Chemical name	Oral	Dermal	Inhalation
benzyl benzoate 120-51-4	-	2.6 mg/kg bw/day [4] [6]	5.1 mg/m ³ [4] [6] 102 mg/m ³ [4] [7]

Derived No Effect Level (DNEL) - General Public No information available.

Chemical name	Oral	Dermal	Inhalation
Undecanol, branched and linear, ethoxylated (>5-15 EO) 68439-46-3	25 mg/kg bw/day [4] [6]	-	87 mg/m ³ [4] [6]
Butyl Diglycol 112-34-5	5 mg/kg bw/day [4] [6]	-	40.5 mg/m ³ [4] [6] 40.5 mg/m ³ [5] [6] 60.7 mg/m ³ [5] [7]
Amines, C12-18(even numbered)-alkyldimethyl, N-oxides 68955-55-5	0.44 mg/kg bw/day [4] [6]	-	1.53 mg/m ³ [4] [6]
Sodium Hydroxide 1310-73-2	-	-	1 mg/m ³ [5] [6]
3,7-Dimethyl-2(3),6-Nonadienitrile 61792-11-8	0.75 mg/kg bw/day [4] [6] 1.5 mg/kg bw/day [4] [7]	1.5 mg/kg bw/day [4] [6] 1.5 mg/kg bw/day [4] [7] 1.88 mg/cm ² [5] [6] 3.75 mg/cm ² [5] [7]	1.3 mg/m ³ [4] [6] 2.61 mg/m ³ [4] [7] 3.26 mg/m ³ [5] [6] 6.52 mg/m ³ [5] [7]
n-Octanal 124-13-0	0.19 mg/kg bw/day [4] [6]	-	0.32 mg/m ³ [4] [6]
Citral 5392-40-5	0.6 mg/kg bw/day [4] [6]	140 µg/cm ² [5] [6]	2.7 mg/m ³ [4] [6]
Decanal 112-31-2	3.52 mg/kg bw/day [4] [6] 7.05 mg/kg bw/day [4] [7]	7.05 mg/kg bw/day [4] [6] 7.05 mg/kg bw/day [4] [7] 8.81 mg/cm ² [5] [6] 17.62 mg/cm ² [5] [7]	6.13 mg/m ³ [4] [6] 12.26 mg/m ³ [4] [7] 15.32 mg/m ³ [5] [6] 30.65 mg/m ³ [5] [7]
dl-Citronellol 106-22-9	13.8 mg/kg bw/day [4] [6]	2950 µg/cm ² [5] [7]	47.8 mg/m ³ [4] [6] 10 mg/m ³ [5] [6] 10 mg/m ³ [5] [7]
p-(2-methylpropyl)-4-hydroxy-4-methyl tetrahydropyran 63500-71-0	7.5 mg/kg bw/day [4] [6]	-	13 mg/m ³ [4] [6]
3-octanol, 3,7-dimethyl 78-69-3	1.58 mg/kg bw/day [4] [6]	190 µg/cm ² [5] [6]	2.75 mg/m ³ [4] [6]
2,6-dimethyloct-7-en-2-ol 18479-58-8	12.5 mg/kg bw/day [4] [6]	-	21.7 mg/m ³ [4] [6]
Geraniol 106-24-1	13.75 mg/kg bw/day [4] [6]	11800 µg/cm ² [5] [6]	47.8 mg/m ³ [4] [6]
Tartrazine 400% 1934-21-0	26.41 mg/kg bw/day [4] [6]	-	91.86 mg/m ³ [4] [6]
2-Methylundecanal 110-41-8	5.23 mg/kg bw/day [4] [6] 25 mg/kg bw/day [4] [7]	50 mg/kg bw/day [4] [6] 50 mg/kg bw/day [4] [7] 17.86 mg/cm ² [5] [6] 35.71 mg/cm ² [5] [7]	9.1 mg/m ³ [4] [6] 86.96 mg/m ³ [4] [7] 22.74 mg/m ³ [5] [6] 217.39 mg/m ³ [5] [7]
3,7-dimethyl-6-octen-1-al 106-23-0	0.6 mg/kg bw/day [4] [6]	140 µg/cm ² [5] [6]	2.7 mg/m ³ [4] [6]
Eucalyptol 470-82-6	600 mg/kg bw/day [4] [6]	-	1.74 mg/m ³ [4] [6]
2-Methyl-3-(p-isoPropylPhenyl)Propion aldehyde 103-95-7	0.83 mg/kg bw/day [4] [6]	3.72 µg/cm ² [5] [6]	1.45 mg/m ³ [4] [6]
Amyl salicylate 2050-08-0	0.45 mg/kg bw/day [4] [6]	-	0.78 mg/m ³ [4] [6]

Chemical name	Oral	Dermal	Inhalation
3,7-dimethyl-2,6-octadien-1-ol 106-25-2	0.62 mg/kg bw/day [4] [6]	-	1.09 mg/m ³ [4] [6]
Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran 16409-43-1	0.2 mg/kg bw/day [4] [6]	-	0.3 mg/m ³ [4] [6]
Linalool 78-70-6	0.2 mg/kg bw/day [4] [6] 1.2 mg/kg bw/day [4] [7]	2.5 mg/kg bw/day [4] [6] 2.5 mg/kg bw/day [4] [7] 1.5 mg/cm ² [5] [6] 1.5 mg/cm ² [5] [7]	0.7 mg/m ³ [4] [6] 4.1 mg/m ³ [4] [7]
Dodecanal 112-54-9	7 mg/kg bw/day [4] [6]	0.28 µg/cm ² [5] [6]	12.3 mg/m ³ [4] [6]
Linalyl acetate 115-95-7	0.2 mg/kg bw/day [4] [6]	236.2 µg/cm ² [5] [6] 236.2 µg/cm ² [5] [7]	0.68 mg/m ³ [4] [6]
Allyl hexanoate 123-68-2	2.1 mg/kg bw/day [4] [6]	-	3.7 mg/m ³ [4] [6]
Eugenol 97-53-0	3 mg/kg bw/day [4] [6]	-	5.22 mg/m ³ [4] [6]
benzyl benzoate 120-51-4	0.4 mg/kg bw/day [4] [6] 78 mg/kg bw/day [4] [7]	-	1.25 mg/m ³ [4] [6] 25 mg/m ³ [4] [7]

Predicted No Effect Concentration (PNEC) No information available.

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Undecanol, branched and linear, ethoxylated (>5-15 EO) 68439-46-3	0.10379 mg/L	0.014 mg/L	0.10379 mg/L	-	-
Butyl Diglycol 112-34-5	1.1 mg/L	11 mg/L	0.11 mg/L	-	-
Amines, C12-18(even numbered)-alkyldimethyl, N-oxides 68955-55-5	0.0335 mg/L	0.0335 mg/L	0.00335 mg/L	-	-
3,7-Dimethyl-2(3),6-Nonadi enitrile 61792-11-8	0.0024 mg/L	0.024 mg/L	0.00024 mg/L	-	-
n-Octanal 124-13-0	0.00154 mg/L	-	0.000154 mg/L	-	-
Citral 5392-40-5	0.00678 mg/L	0.0678 mg/L	0.000678 mg/L	-	-
Decanal 112-31-2	1.17 µg/L	11.7 µg/L	0.117 µg/L	-	-
dl-Citronellol 106-22-9	0.0024 mg/L	0.024 mg/L	0.00024 mg/L	-	-
4-tert.-Butylcyclohexyl acetate 32210-23-4	5.3 µg/L	53 µg/L	0.53 µg/L	-	-
p-(2-methylpropyl)-4-hydro xy-4-methyl tetrahydropyran 63500-71-0	0.094 mg/L	0.94 mg/L	0.0094 mg/L	-	-
3-octanol, 3,7-dimethyl 78-69-3	0.0089 mg/L	0.089 mg/L	0.00089 mg/L	-	-

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
2,6-dimethyloct-7-en-2-ol 18479-58-8	27.8 µg/L	0.278 mg/L	2.78 µg/L	-	-
Geraniol 106-24-1	0.0108 mg/L	0.108 mg/L	0.00108 mg/L	-	-
Tartrazine 400% 1934-21-0	0.12 mg/L	1.2 mg/L	0.012 mg/L	-	-
2-Methylundecanal 110-41-8	0.66 µg/L	1.8 µg/L	66 ng/L	0.18 µg/L	-
3,7-dimethyl-6-octen-1-al 106-23-0	0.00868 mg/L	0.0868 mg/L	0.00087 mg/L	-	-
Eucalyptol 470-82-6	57 µg/L	0.57 mg/L	5.7 µg/L	-	-
2-Methyl-3-(p-isoPropylPhenyl)Propionaldehyde 103-95-7	1.09 µg/L	10.92 µg/L	0.11 µg/L	-	-
Amyl salicylate 2050-08-0	0.77 µg/L	7.7 µg/L	0.077 µg/L	-	-
3,7-dimethyl-2,6-octadien-1-ol 106-25-2	7.45 µg/L	74.5 µg/L	0.745 µg/L	-	-
Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran 16409-43-1	33.2 µg/L	0.332 mg/L	3.32 µg/L	-	-
Linalool 78-70-6	0.2 mg/L	2 mg/L	0.02 mg/L	-	-
Dodecanal 112-54-9	0.0035 mg/L	0.035 mg/L	0.00035 mg/L	-	-
Linalyl acetate 115-95-7	0.011 mg/L	0.11 mg/L	0.0011 mg/L	-	-
Allyl hexanoate 123-68-2	0.117 µg/L	1.17 µg/L	0.0117 µg/L	-	-
Eugenol 97-53-0	1.13 µg/L	11.3 µg/L	0.113 µg/L	-	-
benzyl benzoate 120-51-4	0.0168 mg/L	-	0.00168 mg/L	-	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Undecanol, branched and linear, ethoxylated (>5-15 EO) 68439-46-3	13.7 mg/kg sediment dw	13.7 mg/kg sediment dw	1.4 mg/L	1 mg/kg soil dw	-
Butyl Diglycol 112-34-5	4.4 mg/kg sediment dw	0.44 mg/kg sediment dw	200 mg/L	0.32 mg/kg soil dw	56 mg/kg food
Amines, C12-18(even numbered)-alkyldimethyl, N-oxides 68955-55-5	5.24 mg/kg sediment dw	0.524 mg/kg sediment dw	24 mg/L	1.02 mg/kg soil dw	11.1 mg/kg food
3,7-Dimethyl-2(3),6-Nonadienitrile 61792-11-8	0.248 mg/kg sediment dw	0.0248 mg/kg sediment dw	0.9 mg/L	0.0504 mg/kg soil dw	66.6 mg/kg food
n-Octanal 124-13-0	0.07146 mg/kg sediment dw	0.00715 mg/kg sediment dw	3.16 mg/L	0.01339 mg/kg soil dw	-

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Citral 5392-40-5	0.125 mg/kg sediment dw	0.0125 mg/kg sediment dw	1.6 mg/L	0.0209 mg/kg soil dw	-
Decanal 112-31-2	0.0972 mg/kg sediment dw	0.00972 mg/kg sediment dw	3.16 mg/L	0.0187 mg/kg soil dw	313 mg/kg food
dl-Citronellol 106-22-9	0.0256 mg/kg sediment dw	0.00256 mg/kg sediment dw	580 mg/L	0.00371 mg/kg soil dw	-
4-tert.-Butylcyclohexyl acetate 32210-23-4	2.01 mg/kg sediment dw	0.21 mg/kg sediment dw	12.2 mg/L	0.42 mg/kg soil dw	66.67 mg/kg food
p-(2-methylpropyl)-4-hydroxy-4-methyl tetrahydropyran 63500-71-0	0.412 mg/kg sediment dw	0.0412 mg/kg sediment dw	10 mg/L	0.0902 mg/kg soil dw	-
3-octanol, 3,7-dimethyl 78-69-3	0.0821 mg/kg sediment dw	0.00821 mg/kg sediment dw	450 mg/L	0.0112 mg/kg soil dw	-
2,6-dimethyloct-7-en-2-ol 18479-58-8	0.594 mg/kg sediment dw	0.0594 mg/kg sediment dw	10 mg/L	0.103 mg/kg soil dw	111 mg/kg food
Geraniol 106-24-1	0.115 mg/kg sediment dw	0.0115 mg/kg sediment dw	0.7 mg/L	0.0167 mg/kg soil dw	-
Tartrazine 400% 1934-21-0	0.46992 mg/kg sediment dw	0.046992 mg/kg sediment dw	10 mg/L	0.02353 mg/kg soil dw	-
2-Methylundecanal 110-41-8	0.265 mg/kg sediment dw	26.5 µg/kg sediment dw	10 mg/L	52.6 µg/kg soil dw	116 mg/kg food
3,7-dimethyl-6-octen-1-ol 106-23-0	0.159 mg/kg sediment dw	0.0159 mg/kg sediment dw	4 mg/L	0.0267 mg/kg soil dw	-
Eucalyptol 470-82-6	1.425 mg/kg sediment dw	0.1425 mg/kg sediment dw	10 mg/L	0.25 mg/kg soil dw	40 mg/kg food
2-Methyl-3-(p-isoPropylPhenyl)Propionaldehyde 103-95-7	0.126 mg/kg sediment dw	0.0126 mg/kg sediment dw	1 mg/L	0.0245 mg/kg soil dw	33.3 mg/kg food
Amyl salicylate 2050-08-0	0.389 mg/kg sediment dw	0.0389 mg/kg sediment dw	10 mg/L	1.786 mg/kg soil dw	80 mg/kg food
3,7-dimethyl-2,6-octadien-1-ol 106-25-2	133 µg/kg sediment dw	13.3 µg/kg sediment dw	12.9 mg/L	22.3 µg/kg soil dw	-
Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran 16409-43-1	2.29 mg/kg sediment dw	0.229 mg/kg sediment dw	10 mg/L	0.437 mg/kg soil dw	-
Linalool 78-70-6	2.22 mg/kg sediment dw	0.222 mg/kg sediment dw	10 mg/L	0.327 mg/kg soil dw	7.8 mg/kg food
Dodecanal 112-54-9	1.41 mg/kg sediment dw	0.141 mg/kg sediment dw	10 mg/L	0.278 mg/kg soil dw	313 mg/kg food
Linalyl acetate 115-95-7	0.609 mg/kg sediment dw	0.0609 mg/kg sediment dw	1 mg/L	0.115 mg/kg soil dw	-
Allyl hexanoate 123-68-2	4.46 µg/kg sediment dw	0.446 µg/kg sediment dw	10 mg/L	0.825 µg/kg soil dw	47.56 mg/kg food
Eugenol 97-53-0	0.081 mg/kg sediment dw	0.0081 mg/kg sediment dw	-	0.0155 mg/kg soil dw	-
benzyl benzoate 120-51-4	10.66 mg/kg sediment dw	1.07 mg/kg sediment dw	100 mg/L	2.12 mg/kg soil dw	-

8.2. Exposure controls

Engineering controls

No information available.

Personal protective equipment

Eye/face protection	Wear safety glasses with side shields (or goggles).
Skin and body protection	No special protective equipment required.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice.
Environmental exposure controls	No information available.

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

Physical state	Liquid	
Appearance	Clear thin yellow liquid	
Color	yellow	
Odor	Lemon & grapefruit.	
Odor threshold		
Property	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	> 100	Not measured (>100°C)
Flammability	No data available	Does not ignite
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	No data available	pH (concentrated solution): 9.2 - 10.8
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	No data available	Soluble in water
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapor pressure	No data available	None known
Relative density	1.000 - 1.008 @ 20°C	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapor density	> 1 (Air=1)	None known
Particle characteristics		
Particle Size		
Particle Size Distribution		

9.2. Other information**9.2.1. Information with regard to physical hazard classes**

Not applicable
Explosive properties None

9.2.2. Other safety characteristics

Not applicable

SECTION 10: Stability and reactivity**10.1. Reactivity**

Reactivity No information available.

10.2. Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products

Hazardous decomposition products None known based on information supplied.

SECTION 11: Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Information on likely routes of exposure****Product Information**

Inhalation May cause irritation.

Eye contact Causes serious eye irritation.

Skin contact Prolonged exposure may cause skin irritation.

Ingestion May cause irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Acute toxicity**Numerical measures of toxicity**

No information available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Undecanol, branched and linear, ethoxylated (>5-15 EO)	= 1400 mg/kg (Rat)	-	-
Butyl Diglycol	= 5660 mg/kg (Rat)	= 2700 mg/kg (Rabbit)	-
Tetrasodium ethylene diamine tetraacetate	= 1658 mg/kg (Rat)	-	-
Amines, C12-18(even numbered)-alkyldimethyl, N-oxides	-	> 2000 mg/kg (Rat)	-
Citric Acid Kosher	= 3 g/kg (Rat)	> 2000 mg/kg (Rat)	-
Sodium Hydroxide	= 325 mg/kg (Rat)	= 1350 mg/kg (Rabbit)	-
Terpineol	= 2900 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	-
d-Limonene	= 5200 mg/kg (Rat) = 4400 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
n-Octanal	= 4616 mg/kg (Rat)	= 5207 mg/kg (Rabbit)	> 4.7 mg/L (Rat) 4 h
3,7-Dimethyl-2(3),6-Nonadienitrile	= 2600 mg/kg (Rat)	-	-
Citral	= 4960 mg/kg (Rat)	= 2250 mg/kg (Rabbit)	-
dipentene	= 5300 mg/kg (Rat)	-	-
alpha-Terpinolene	= 4390 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
Decanal	= 3730 mg/kg (Rat)	= 5040 mg/kg (Rabbit)	-
dl-Citronellol	= 3450 mg/kg (Rat)	= 2650 mg/kg (Rabbit)	-
p-(2-methylpropyl)-4-hydroxy-4-methyl tetrahydropyran	-	> 2000 mg/kg (Rabbit)	-
4-tert.-Butylcyclohexyl acetate	= 5 g/kg (Rat)	> 5000 mg/kg (Rabbit)	-
3-octanol, 3,7-dimethyl	> 5 g/kg (Rat)	> 5000 mg/kg (Rabbit)	-
2,6-dimethyloct-7-en-2-ol	= 3600 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
Hexyl cinnamal	= 3100 mg/kg (Rat)	> 3000 mg/kg (Rabbit)	> 5 mg/L (Rat) 4 h
Geraniol	= 3600 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
Diphenyl ether	= 2450 mg/kg (Rat)	> 7940 mg/kg (Rabbit)	-
para-Cymene	= 4750 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	> 9.7 mg/L (Rat) 5 h
beta-Pinene	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-

Tartrazine 400%	> 2000 mg/kg (Rat)	-	-
2-Methylundecanal	> 5 g/kg (Rat)	> 10 mL/kg (Rabbit)	-
3,7-dimethyl-6-octen-1-al	= 2420 mg/kg (Rat)	> 2.5 g/kg (Rabbit)	-
Eucalyptol	= 2480 mg/kg (Rat)	-	-
2-Methyl-3-(p-isoPropylPhenyl) Propionaldehyde	= 3810 mg/kg (Rat)	> 5000 mg/kg (Rat)	-
Elemi Oil	= 3370 mg/kg (Rat)	-	-
Lemon Oil	= 2840 mg/kg (Rat)	-	-
Amyl salicylate	= 4100 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
l-p-Mentha-1(6),8-dien-2-one	= 5400 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
3,7-dimethyl-2,6-octadien-1-ol	= 4500 mg/kg (Rat)	> 5 g/kg (Rabbit)	-
Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran	= 4300 mg/kg (Rat)	-	-
Linalool	= 2790 mg/kg (Rat)	= 5610 mg/kg (Rabbit)	-
Dodecanal	= 23 g/kg (Rat)	> 2000 mg/kg (Rabbit)	-
Linalyl acetate	= 14550 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-
Allyl hexanoate	-	= 820 mg/kg (Rabbit)	-
Longifolene	> 5 g/kg (Rat)	-	-
Eugenol	= 1930 mg/kg (Rat)	-	-
benzyl benzoate	= 500 mg/kg (Rat)	= 4000 mg/kg (Rabbit)	-
benzyl alcohol	= 1230 mg/kg (Rat)	= 2 g/kg (Rabbit)	> 4178 mg/m ³ (Rat) 4 h

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

Skin corrosion/irritation May cause skin irritation.

Serious eye damage/eye irritation Causes serious eye irritation.

Respiratory or skin sensitization Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT - single exposure No information available.

STOT - repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard No information available.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

11.2.2. Other information

Other adverse effects

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Not considered to be harmful to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Butyl Diglycol	EC50: >100mg/L (96h, <i>Desmodesmus subspicatus</i>)	LC50: =1300mg/L (96h, <i>Lepomis macrochirus</i>)	-	EC50: >100mg/L (48h, <i>Daphnia magna</i>)
Tetrasodium ethylene diamine tetraacetate	-	LC50: =41mg/L (96h, <i>Lepomis macrochirus</i>) LC50: =59.8mg/L (96h, <i>Pimephales promelas</i>)	-	-
Citric Acid Kosher	-	LC50: =1516mg/L (96h, <i>Lepomis macrochirus</i>)	-	-
Sodium Hydroxide	-	LC50: =45.4mg/L (96h, <i>Oncorhynchus mykiss</i>)	-	-
d-Limonene	-	LC50: 0.619 - 0.796mg/L (96h, <i>Pimephales promelas</i>) LC50: =35mg/L (96h, <i>Oncorhynchus mykiss</i>)	-	-
Citral	EC50: =16mg/L (72h, <i>Desmodesmus subspicatus</i>) EC50: =19mg/L (96h, <i>Desmodesmus subspicatus</i>)	-	-	EC50: =7mg/L (48h, <i>Daphnia magna</i>)
alpha-Terpinolene	-	LC50: =0.805mg/L (96h, <i>Danio rerio</i>)	-	-
Decanal	-	LC50: =1.45mg/L (96h, <i>Oncorhynchus mykiss</i>)	-	-
dl-Citronellol	-	-	-	EC50: =17mg/L (48h, <i>Daphnia magna</i>)

4-tert.-Butylcyclohexyl acetate	-	LC50: =8.6mg/L (96h, Cyprinus carpio)	-	-
3-octanol, 3,7-dimethyl	EC50: =19mg/L (72h, Desmodesmus subspicatus) EC50: =2.7mg/L (96h, Pseudokirchneriella subcapitata) EC50: =6.2mg/L (96h, Desmodesmus subspicatus)	LC50: =8.9mg/L (96h, Danio rerio)	-	EC50: =3mg/L (48h, Daphnia magna) EC50: =320mg/L (48h, Daphnia magna) EC50: =8.5mg/L (48h, Daphnia magna) EC50: 4.78 - 8.87mg/L (48h, Daphnia magna) LC50: =6.2mg/L (48h, Daphnia magna)
Geraniol	-	LC50: =22mg/L (96h, Danio rerio)	-	-
Diphenyl ether	-	LC50: =4mg/L (96h, Pimephales promelas) LC50: 4 - 7.9mg/L (96h, Pimephales promelas)	-	LC50: 0.11 - 1.1mg/L (48h, Daphnia magna)
2-Methylundecanal	-	LC50: =0.35mg/L (96h, Oncorhynchus mykiss)	-	-
Eucalyptol	-	LC50: 95.4 - 109mg/L (96h, Pimephales promelas)	-	-
l-p-Mentha-1(6),8-dien-2-one	-	LC50: =6.1mg/L (96h, Oncorhynchus mykiss)	-	-
3,7-dimethyl-2,6-octadien-1-ol	-	LC50: =20.3mg/L (96h, Danio rerio)	-	-
Linalool	EC50: =88.3mg/L (96h, Desmodesmus subspicatus)	LC50: =27.8mg/L (96h, Oncorhynchus mykiss)	-	EC50: =20mg/L (48h, Daphnia magna)
Linalyl acetate	-	LC50: =11mg/L (96h, Cyprinus carpio)	-	-
Allyl hexanoate	-	LC50: =0.117mg/L (96h, Danio rerio)	-	-
Eugenol	-	LC50: =13mg/L (96h, Danio rerio)	-	-
benzyl benzoate	-	LC50: =2.32mg/L (96h, Danio rerio)	-	-
benzyl alcohol	-	LC50: =460mg/L (96h, Pimephales promelas) LC50: =10mg/L (96h, Lepomis macrochirus)	-	EC50: =23mg/L (48h, water flea)

12.2. Persistence and degradability

Persistence and degradability Not determined.

12.3. Bioaccumulative potential

Bioaccumulation Not likely to bioaccumulate.

Chemical name	Partition coefficient
Butyl Diglycol	1
Citric Acid Kosher	-1.72
terpenes & terpenoids, simpine	5.7
d-Limonene	4.38
n-Octanal	3.5
3,7-Dimethyl-2(3),6-Nonadienitrile	3.2
Citral	2.76

Decanal	3.8
dl-Citronellol	3.41
p-(2-methylpropyl)-4-hydroxy-4-methyl tetrahydropyran	1.65
4-tert.-Butylcyclohexyl acetate	4.8
3-octanol, 3,7-dimethyl	3.3
2,6-dimethyloct-7-en-2-ol	3.25
Geraniol	2.6
Diphenyl ether	4.21
para-Cymene	4.8
Tartrazine 400%	-1.572
2-Methylundecanal	4.9
3,7-dimethyl-6-octen-1-al	3.62
Eucalyptol	3.4
2-Methyl-3-(p-isoPropylPhenyl)Propionaldehyde	3.4
Amyl salicylate	4.5
l-p-Mentha-1(6),8-dien-2-one	2.74
3,7-dimethyl-2,6-octadien-1-ol	2.76
Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran	3.3
Linalool	2.9
Dodecanal	4.9
Linalyl acetate	3.9
Allyl hexanoate	3.191
Longifolene	5
Eugenol	1.83
benzyl benzoate	3.97
benzyl alcohol	1.05

12.4. Mobility in soil

Mobility in soil Not determined.

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 above the threshold of declaration.

Chemical name	PBT and vPvB assessment
Undecanol, branched and linear, ethoxylated (>5-15 EO)	The substance is not PBT / vPvB
Butyl Diglycol	The substance is not PBT / vPvB
Tetrasodium ethylene diamine tetraacetate	The substance is not PBT / vPvB
Amines, C12-18(even numbered)-alkyldimethyl, N-oxides	The substance is not PBT / vPvB
Citric Acid Kosher	The substance is not PBT / vPvB
Sodium Hydroxide	The substance is not PBT / vPvB
d-Limonene	The substance is not PBT / vPvB
n-Octanal	The substance is not PBT / vPvB
3,7-Dimethyl-2(3),6-Nonadienitrile	The substance is not PBT / vPvB
Citral	The substance is not PBT / vPvB
alpha-Terpinolene	The substance is not PBT / vPvB
Decanal	The substance is not PBT / vPvB
dl-Citronellol	The substance is not PBT / vPvB
p-(2-methylpropyl)-4-hydroxy-4-methyl tetrahydropyran	The substance is not PBT / vPvB
4-tert.-Butylcyclohexyl acetate	The substance is not PBT / vPvB
3-octanol, 3,7-dimethyl	The substance is not PBT / vPvB
2,6-dimethyloct-7-en-2-ol	The substance is not PBT / vPvB
Geraniol	The substance is not PBT / vPvB
Diphenyl ether	The substance is not PBT / vPvB
para-Cymene	The substance is not PBT / vPvB

beta-Pinene	The substance is not PBT / vPvB
Tartrazine 400%	The substance is not PBT / vPvB
2-Methylundecanal	The substance is not PBT / vPvB
3,7-dimethyl-6-octen-1-ol	The substance is not PBT / vPvB
Eucalyptol	The substance is not PBT / vPvB
2-Methyl-3-(p-isoPropylPhenyl)Propionaldehyde	The substance is not PBT / vPvB
Amyl salicylate	The substance is not PBT / vPvB
l-p-Mentha-1(6),8-dien-2-one	The substance is not PBT / vPvB
3,7-dimethyl-2,6-octadien-1-ol	The substance is not PBT / vPvB
Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran	The substance is not PBT / vPvB
Linalool	The substance is not PBT / vPvB
Dodecanal	The substance is not PBT / vPvB
Linalyl acetate	The substance is not PBT / vPvB
Allyl hexanoate	The substance is not PBT / vPvB
Eugenol	The substance is not PBT / vPvB
benzyl benzoate	The substance is not PBT / vPvB
benzyl alcohol	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects**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 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

IMDG

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

14.7 Maritime transport in bulk according to IMO instruments Not regulated

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 Not applicable
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 Not applicable
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**

Chemical name	French RG number
Butyl Diglycol - 112-34-5	RG 84
d-Limonene - 5989-27-5	RG 84
dipentene - 138-86-3	RG 84
benzyl alcohol - 100-51-6	RG 84

European Union

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.

Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Butyl Diglycol - 112-34-5	55. 75.	-
Tetrasodium ethylene diamine tetraacetate - 64-02-8	75.	-
Sodium Hydroxide - 1310-73-2	75.	-
d-Limonene - 5989-27-5	75.	-
Citral - 5392-40-5	75.	-
dipentene - 138-86-3	75.	-
p-(2-methylpropyl)-4-hydroxy-4-methyl tetrahydropyran - 63500-71-0	75.	-
Geraniol - 106-24-1	75.	-
Tartrazine 400% - 1934-21-0	75.	-

I-p-Mentha-1(6),8-dien-2-one - 6485-40-1	75.	-
Linalool - 78-70-6	75.	-

Persistent Organic Pollutants

Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

Chemical name	EU - Plant Protection Products (1107/2009/EC)
d-Limonene - 5989-27-5	Plant protection agent
Geraniol - 106-24-1	Plant protection agent
Eucalyptol - 470-82-6	Plant protection agent
I-p-Mentha-1(6),8-dien-2-one - 6485-40-1	Plant protection agent
Eugenol - 97-53-0	Plant protection agent

Chemical name	Biocidal Products Regulation (EU) No 528/2012 (BPR)
Geraniol - 106-24-1	Product-type 18: Insecticides, acaricides and products to control other arthropods Product-type 19: Repellents and attractants
3,7-dimethyl-6-octen-1-al - 106-23-0	Simplified procedure - Category 7

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
KECL	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 A Chemical Safety Assessment has not been carried out for this mixture

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 Authorization:

Legend Section 8: Exposure controls/personal protection

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

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)
 EPA (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)
 Australia 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)
 National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program
 Organization for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

Revision date 12/11/2023

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)**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**Europe****EU SDS version information - EGHS**

UL release:
 GHS Revision 7
 2022 Q1

Chemical name	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)
Undecanol, branched and linear, ethoxylated (>5-15	Acute Tox. 4 (H302)	

EO)	Eye Dam. 1 (H318)	
Butyl Diglycol	Eye Irrit. 2 (H319)	
Tetrasodium ethylene diamine tetraacetate	Acute Tox. 4 (H332) STOT RE 2 (H373) Acute Tox. 4 (H302) Eye Dam. 1 (H318)	
Cocamidopropyl Betaine	Aquatic Chronic 3 (H412) Eye Dam. 1 (H318)	
Amines, C12-18(even numbered)-alkyldimethyl, N-oxides	Aquatic Chronic 2 (H411) Aquatic Acute 1 (H400) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	
Citric Acid Kosher	Eye Irrit. 2 (H319)	
Sodium Hydroxide	Skin Corr. 1A (H314) Met. Corr. 1 (H290)	Eye Irrit. 2 :: 0.5%≤C<2% Skin Corr. 1A :: C>=5% Skin Corr. 1B :: 2%≤C<5% Skin Irrit. 2 :: 0.5%≤C<2%
Terpineol	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	
terpenes & terpenoids, simpine	Aquatic Chronic 2 (H411) Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Skin Sens. 1A (H317) Skin Irrit. 2 (H315)	
d-Limonene	Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Aquatic Chronic 1 (H410) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	
n-Octanal	Aquatic Chronic 2 (H411) Flam. Liq. 3 (H226) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	
3,7-Dimethyl-2(3),6-Nonadienitrile	Aquatic Chronic 2 (H411)	
Citral	Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	
dipentene	Flam. Liq. 3 (H226) Skin Sens. 1 (H317) Aquatic Chronic 1 (H410) Aquatic Acute 1 (H400) Skin Irrit. 2 (H315)	
alpha-Terpinolene	Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Skin Sens. 1 (H317) Aquatic Chronic 1 (H410)	
Decanal	Eye Irrit. 2 (H319)	
dl-Citronellol	Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	
p-(2-methylpropyl)-4-hydroxy-4-methyl tetrahydropyran	Eye Irrit. 2 (H319)	
4-tert.-Butylcyclohexyl acetate	Aquatic Chronic 2 (H411) Skin Sens. 1B (H317)	
3-octanol, 3,7-dimethyl	Flam. Liq. 3 (H226) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	
2,6-dimethyloct-7-en-2-ol	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	
Hexyl cinnamal	Aquatic Chronic 2 (H411) Aquatic Acute 1 (H400) Skin Sens. 1B (H317)	
Geraniol	Skin Sens. 1 (H317) Skin Irrit. 2 (H315) Eye Dam. 1 (H318)	

Diphenyl ether	Aquatic Chronic 2 (H411) Eye Irrit. 2 (H319)	
para-Cymene	Aquatic Chronic 2 (H411) Asp. Tox. 1 (H304) Flam. Liq. 3 (H226)	
DimethylCycloHex-3-ene-1-Carboxaldehyde	Aquatic Chronic 2 (H411) Flam. Liq. 3 (H226) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	
beta-Pinene	Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	
2-Methylundecanal	Aquatic Chronic 1 (H410) Eye Irrit. 2 (H319) Aquatic Acute 1 (H400) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	
3,7-dimethyl-6-octen-1-al	Skin Sens. 1 (H317) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	
Eucalyptol	Flam. Liq. 3 (H226) Skin Sens. 1B (H317)	
2-Methyl-3-(p-isoPropylPhenyl)Propionaldehyde	Aquatic Chronic 3 (H412) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	
Elemi Oil	Aquatic Chronic 2 (H411) Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	
Lemon Oil	Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) Aquatic Chronic 1 (H410) Aquatic Acute 1 (H400) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	
Amyl salicylate	Aquatic Chronic 1 (H410) Acute Tox. 4 (H302)	
l-p-Mentha-1(6),8-dien-2-one	Skin Sens. 1B (H317)	
3,7-dimethyl-2,6-octadien-1-ol	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	
Tetrahydro-4-methyl-2-(2-methylpropen-1-yl)pyran	Aquatic Chronic 3 (H412) Repr. 2 (H361) Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	
Linalool	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	
Dodecanal	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315) Skin Sens. 1B (H317)	
Linalyl acetate	Eye Irrit. 2 (H319) Skin Irrit. 2 (H315)	
Allyl hexanoate	Aquatic Chronic 3 (H412) Aquatic Acute 1 (H400) Acute Tox. 3 (H311) Acute Tox. 3 (H301) Acute Tox. 3 (H331)	
Longifolene	Asp. Tox. 1 (H304) Aquatic Chronic 1 (H410) Skin Sens. 1B (H317)	
Eugenol	Eye Irrit. 2 (H319) Skin Sens. 1B (H317)	

delta-1-(2,6,6-Trimethyl-3-cyclohexen-1-yl)-2-buten-1-one	Skin Sens. 1 (H317) Aquatic Chronic 1 (H410) Acute Tox. 4 (H302) Skin Irrit. 2 (H315)	
benzyl benzoate	Aquatic Chronic 2 (H411) Aquatic Acute 1 (H400) Acute Tox. 4 (H302)	
benzyl alcohol	Acute Tox. 4 (H332) Eye Irrit. 2 (H319) Acute Tox. 4 (H302)	

Chemical name	CAS No	French RG number
Butyl Diglycol	112-34-5	RG 84
d-Limonene	5989-27-5	RG 84
dipentene	138-86-3	RG 84
benzyl alcohol	100-51-6	RG 84