

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product form	: Substance (UVCB)
Trade name	: YLANG EXTRA EO
EC No (EC/EINECS/ELINCS)	: 281-092-1
CAS	: 8006-81-3
REACH registration No.	: 01-2120760178-50
Product code	: 022668
Other means of identification	: CAS EU : 83863-30-3

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

Main use category	: Industrial use
Use of the substance/mixture	: Fragrance ingredient Flavor ingredient

1.3. Details of the supplier of the safety data sheet

Aromology Trading LLC
G05 Al Ghazal Building
Nadd Al Hamar
Dubai, United Arab Emirates

Website: www.aromology.com
Email: info@aromology.com
Telephone: +971 505197601

1.4. Emergency telephone number

Country/Area	Organisation	Emergency number
France	ORFILA.	+33 1 45 42 59 59
Ireland	National Poisons Information Centre. Beaumont Hospital. PO Box 1297. Beaumont Road 9 Dublin.	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)
Malta	Medicines & Poisons Info Office. Mater Dei Hospital. Msida MSD 2090 Msida.	112 +356 2545 6508
United Kingdom	National Poisons Information Service (Belfast Centre). Royal Victoria Hospital. Grosvenor Road BT12 6BA Belfast.	0344 892 0111 Only for healthcare professionals

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

Skin corrosion/irritation, Category 2	H315
Skin sensitisation, Category 1	H317
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment – Chronic Hazard, Category 3	H412

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

Adverse physicochemical, human health and environmental effects

Causes skin irritation. May cause an allergic skin reaction. May be fatal if swallowed and enters airways. Harmful to aquatic life with long lasting effects.

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2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



Signal word (CLP)

: Danger

Hazard statements (CLP)

: H304 - May be fatal if swallowed and enters airways.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

2.3. Other hazards

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

Component	
Substance(s) not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605	Geraniol (106-24-1), Methyl salicylate (119-36-8)

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : UVCB
Name : Ylang-ylang, ext.
CAS : 8006-81-3
EC No (EC/EINECS/ELINCS) : 281-092-1

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Linalool	CAS: 78-70-6 EC No (EC/EINECS/ELINCS): 201-134-4 EC index number: 603-235-00-2	20 – 25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Germacrene D	CAS: 23986-74-5 EC No (EC/EINECS/ELINCS): 639-624-9	20 – 25	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Asp. Tox. 1, H304
Benzyl acetate	CAS: 140-11-4 EC No (EC/EINECS/ELINCS): 205-399-7	10 – 20	Aquatic Chronic 3, H412

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
p-Methylanisole	CAS: 104-93-8 EC No (EC/EINECS/ELINCS): 203-253-7	10 – 20	Acute Tox. 4 (Oral), H302 (ATE=1920 mg/kg bodyweight) Skin Irrit. 2, H315 Repr. 2, H361
Alpha-farnesene	CAS: 97885-54-6	10 – 20	Asp. Tox. 1, H304
Geranyl acetate	CAS: 105-87-3 EC No (EC/EINECS/ELINCS): 203-341-5	10 – 20	Skin Sens. 1B, H317 Skin Irrit. 2, H315 Aquatic Chronic 3, H412
beta-Caryophyllene	CAS: 87-44-5 EC No (EC/EINECS/ELINCS): 201-746-1	5 – 10	Asp. Tox. 1, H304 Skin Sens. 1B, H317
Methyl benzoate	CAS: 93-58-3 EC No (EC/EINECS/ELINCS): 202-259-7	5 – 10	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Repr. 2, H361d
benzyl benzoate	CAS: 120-51-4 EC No (EC/EINECS/ELINCS): 204-402-9 EC index number: 607-085-00-9	5 – 10	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Aquatic Acute 1, H400 Aquatic Chronic 2, H411
Benzyl salicylate	CAS: 118-58-1 EC No (EC/EINECS/ELINCS): 204-262-9 EC index number: 607-754-00-5	1 – 5	Eye Irrit. 2, H319 Skin Sens. 1B, H317 Aquatic Chronic 3, H412
Farnesol	CAS: 4602-84-0 EC No (EC/EINECS/ELINCS): 225-004-1	1 – 5	Skin Sens. 1B, H317 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 1, H410 Aquatic Acute 1, H400
Geraniol	CAS: 106-24-1 EC No (EC/EINECS/ELINCS): 203-377-1 EC index number: 603-241-00-5	1 – 5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317
3-Methyl-2-butenyl acetate	CAS: 1191-16-8 EC No (EC/EINECS/ELINCS): 214-730-4	1 – 5	Flam. Liq. 3, H226
isoeugenol	CAS: 97-54-1 EC No (EC/EINECS/ELINCS): 202-590-7 EC index number: 604-094-00-X	1 – 5	Acute Tox. 4 (Oral), H302 (ATE=1560 mg/kg bodyweight) Acute Tox. 4 (Dermal), H312 (ATE=1100 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1A, H317 STOT SE 3, H335
trans-Anethole	CAS: 4180-23-8 EC No (EC/EINECS/ELINCS): 224-052-0	0.1 – 1	Skin Sens. 1B, H317

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
alpha-Pinene	CAS: 80-56-8 EC No (EC/EINECS/ELINCS): 201-291-9	0.1 – 1	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Asp. Tox. 1, H304 Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317
Terpinolene	CAS: 586-62-9 EC No (EC/EINECS/ELINCS): 209-578-0	0.1 – 1	Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Caryophyllene oxide	CAS: 1139-30-6 EC No (EC/EINECS/ELINCS): 214-519-7	0.1 – 1	Aquatic Chronic 2, H411
beta-Pinene	CAS: 127-91-3 EC No (EC/EINECS/ELINCS): 204-872-5	0.1 – 1	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1B, H317 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
p-Mentha-1,3-diene	CAS: 99-86-5 EC No (EC/EINECS/ELINCS): 202-795-1 EC index number: 601-095-00-7	0.1 – 1	Flam. Liq. 3, H226 Acute Tox. 4 (Oral), H302 (ATE=1680 mg/kg bodyweight) Eye Irrit. 2, H319 Skin Sens. 1, H317 Asp. Tox. 1, H304 Aquatic Chronic 2, H411
Eucalyptol	CAS: 470-82-6 EC No (EC/EINECS/ELINCS): 207-431-5	0.1 – 1	Flam. Liq. 3, H226 Eye Irrit. 2, H319 Skin Sens. 1B, H317
Hexyl acetate	CAS: 142-92-7 EC No (EC/EINECS/ELINCS): 205-572-7	0.1 – 1	Flam. Liq. 3, H226
Methyl salicylate	CAS: 119-36-8 EC No (EC/EINECS/ELINCS): 204-317-7 EC index number: 607-749-00-8	0.1 – 1	Acute Tox. 4 (Oral), H302 (ATE=890 mg/kg bodyweight) Eye Dam. 1, H318 Skin Sens. 1B, H317 Repr. 2, H361 Aquatic Chronic 3, H412
benzyl alcohol	CAS: 100-51-6 EC No (EC/EINECS/ELINCS): 202-859-9 EC index number: 603-057-00-5	0.1 – 1	Acute Tox. 4 (Oral), H302 (ATE=1200 mg/kg bodyweight) Eye Irrit. 2, H319 Skin Sens. 1B, H317
Phenethyl acetate	CAS: 103-45-7 EC No (EC/EINECS/ELINCS): 203-113-5	0.1 – 1	Eye Dam. 1, H318

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits (%)
isoeugenol	CAS: 97-54-1 EC No (EC/EINECS/ELINCS): 202-590-7 EC index number: 604-094-00-X	(0.01 ≤ C ≤ 100) Skin Sens. 1A; H317

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Call a physician immediately. Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). If skin irritation or rash occurs:
First-aid measures after eye contact	: Rinse eyes with water as a precaution. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.
First-aid measures after ingestion	: Do not induce vomiting. Call a physician immediately. Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects after inhalation	: May cause an allergic skin reaction.
Symptoms/effects after skin contact	: Irritation. May cause an allergic skin reaction. Causes skin irritation.
Symptoms/effects after ingestion	: Risk of lung oedema. May be fatal if swallowed and enters airways.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Fire extinguishing agents: no data available. Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire	: Toxic fumes may be released.
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5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Do not enter fire area without proper protective equipment, including respiratory protection.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Evacuate unnecessary personnel.

For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Equip cleanup crew with proper protection.

Emergency procedures : Stop release. Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Collect spills and put it into appropriated container. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13. See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash hands, forearms and face thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool. Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Maximum storage period : 24 months

Storage temperature : ≤ 25 °C

Storage area : Store in a well-ventilated place.

Special rules on packaging : Keep in the dark. Store tightly closed in a dry, cool and well-ventilated place. Product must only be kept in the original packaging.

7.3. Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Benzyl acetate (140-11-4)	
USA - ACGIH® - Threshold Limit Values	
Local name	Benzyl acetate
ACGIH® TLV® TWA	61 mg/m³
	10 ppm
Remark (ACGIH®)	TLV® Basis: URT irr. Notations: A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025
beta-Pinene (127-91-3)	
USA - ACGIH® - Threshold Limit Values	
Local name	β-Pinene
ACGIH® TLV® TWA	112 mg/m³
	20 ppm
Remark (ACGIH®)	TLV® Basis: Lung irr. Notations: DSEN; A4 (Not classifiable as a Human Carcinogen)
Regulatory reference	ACGIH 2025

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Personal protective equipment symbol(s):



Eye and face protection

Eye protection:

Safety glasses. Chemical goggles or safety glasses

Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Wear protective gloves.

Respiratory protection

Respiratory protection:

[In case of inadequate ventilation] wear respiratory protection.

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Pale yellow to dark yellow.
Appearance	: Liquid.
Odour	: Caractéristic, flowery, jasmine.
Odour threshold	: Not available
Melting point	: Not applicable
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Non flammable
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point (closed cup)	: 81 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: < 20.5 mm²/s
Solubility	: Not available
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: 22.23 Pa
Vapour pressure at 50°C	: Not available
Density	: Not available
Specific gravity (20°C)	: 0.9430 – 0.9730
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

Linalool (78-70-6)

Boiling point	196.3 °C Atm. press.: 99,2 kPa Decomposition: 'no' Decomp. temp.: 196,3 °C
Flash point (closed cup)	77 °C
Auto-ignition temperature	235 °C Source: International Chemical Safety Cards
Vapour pressure	27 Pa Temp.: 298 K

Germacrene D (23986-74-5)

Boiling point	308 °C (760 mm Hg, Source: thegoodscentcompany.com)
Flash point (closed cup)	111.67 °C
Vapour pressure	0.007 mm Hg (25°C, Source: thegoodscentcompany.com)

Benzyl acetate (140-11-4)

Boiling point	213.5 °C
Flash point (closed cup)	102 °C
Auto-ignition temperature	460 °C
Vapour pressure	190 mm Hg

p-Methylanisole (104-93-8)

Boiling point	175.5 °C Atm. press.: 1013 hPa
Flash point (closed cup)	62 °C

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p-Methylanisole (104-93-8)

Auto-ignition temperature	485 °C
Vapour pressure	1.01 hPa Temp.: 17,1 °C

Alpha-farnesene (97885-54-6)

Flash point (closed cup)	116 °C
Vapour pressure	3.33 Pa (25°C; ECHA website)

Geranyl acetate (105-87-3)

Boiling point	243.97 °C Atm. press.: 1013,25 hPa
Flash point (closed cup)	110 °C
Vapour pressure	0.013 hPa Temp.: 20 °C

beta-Caryophyllene (87-44-5)

Boiling point	253 – 262 °C Atm. press.: 1013 hPa
Flash point (closed cup)	105.5 °C
Vapour pressure	6 Pa

Methyl benzoate (93-58-3)

Boiling point	199.5 °C Atm. press.: 1013 hPa Decomposition: 'no'
Flash point (closed cup)	77 °C
Vapour pressure	50.6 Pa (25°C; ECHA website)

benzyl benzoate (120-51-4)

Boiling point	≈ 323.5 °C
Flash point (closed cup)	≈ 148 °C Atm. press.: 101,325 kPa
Auto-ignition temperature	480 °C Source: ICSC
Vapour pressure	≈ 0.000229 hPa Temp.: 25 °C

Benzyl salicylate (118-58-1)

Boiling point	322 °C Atm. press.: 101,325 kPa
Flash point (closed cup)	177 °C
Vapour pressure	0.0104 Pa Temp.: 25 °C

Farnesol (4602-84-0)

Boiling point	296.6 – 299.5 °C Atm. press.: 994 hPa Decomposition: 'no'
Flash point (closed cup)	150 °C
Auto-ignition temperature	240 °C Source: AKRON
Vapour pressure	0.0000394 mm Hg Source: EPISUITE

Geraniol (106-24-1)

Boiling point	230 °C
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Geraniol (106-24-1)

Flash point (closed cup)	108 °C
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3-Methyl-2-butenyl acetate (1191-16-8)

Boiling point	150 – 152 °C Atm. press.: 1013,25 hPa
Flash point (closed cup)	46 °C

isoeugenol (97-54-1)

Boiling point	266 °C Source: ChemIDplus
Flash point (closed cup)	133 °C
Vapour pressure	0.0135 mm Hg at 25 °C Source: HSDB

trans-Anethole (4180-23-8)

Flash point (closed cup)	101 °C
Vapour pressure	≈ 5.45 Pa Temp.: 294 K

alpha-Pinene (80-56-8)

Boiling point	155.95 °C Atm. press.: 1013,25 mBar
Flash point (closed cup)	31 °C
Auto-ignition temperature	255 °C
Vapour pressure	4.75 mm Hg

Terpinolene (586-62-9)

Boiling point	193.85 °C Atm. press.: 985 hPa Decomposition: 'no'
Flash point (closed cup)	61 °C
Vapour pressure	0.74 mm Hg at 25°C Source: National Library of Medicine/Hazardous Substances Data Bank

Caryophyllene oxide (1139-30-6)

Boiling point	263.48 °C Source: EPISUITE
Vapour pressure	0.01 mm Hg at 25°C Source: EPISUITE

beta-Pinene (127-91-3)

Boiling point	158 – 166 °C
Flash point (closed cup)	39 °C
Auto-ignition temperature	255 °C
Vapour pressure	2.93 mm Hg

p-Mentha-1,3-diene (99-86-5)

Boiling point	173 °C Atm. press.: 1 atm
Flash point (closed cup)	47 °C
Vapour pressure	0.8 mm Hg at 25°C Source: The Chemical Database, The Department of Chemistry at the University of Akron

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Eucalyptol (470-82-6)

Boiling point	177 °C Atm. press.: 101,325 kPa Decomposition: 'no'
Flash point (closed cup)	52 °C
Vapour pressure	122 Pa Temp.: 20 °C

Hexyl acetate (142-92-7)

Boiling point	170.45 °C
Flash point (closed cup)	58 °C
Vapour pressure	0.144 kPa Temp.: 20 °C

Methyl salicylate (119-36-8)

Boiling point	222.9 °C Source: ChemIDplus
Flash point (closed cup)	95.5 °C
Auto-ignition temperature	454 °C Source: ICSC
Vapour pressure	0.0343 mm Hg at 25 °C Source: ChemIDplus

benzyl alcohol (100-51-6)

Boiling point	205.31 °C
Flash point (closed cup)	100 °C
Auto-ignition temperature	436 °C
Vapour pressure	13.2 Pa at 20°C Source: ICSC

Phenethyl acetate (103-45-7)

Flash point (closed cup)	101 °C
Vapour pressure	0.01 kPa Temp.: 20 °C

9.2. Other information

Other safety characteristics

Refractive index (20°C) : 1.4960 – 1.5110

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

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10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

YLANG EXTRA EO (8006-81-3)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg

Linalool (78-70-6)

LD50 oral rat	2790 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 2440 - 3180
LD50 oral	2790 mg/kg
LD50 dermal rabbit	5610 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 3578 - 8374
ATE CLP (oral)	2790 mg/kg bodyweight
ATE CLP (dermal)	5610 mg/kg bodyweight

Germacrene D (23986-74-5)

ATE CLP (oral)	500 mg/kg bodyweight
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Benzyl acetate (140-11-4)

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 oral	2490 mg/kg
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit

p-Methylanisole (104-93-8)

LD50 oral rat	1920 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 1510 - 2450
LD50 oral	1900 mg/kg
LD50 dermal rabbit	> 4850 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 6.1 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat (Vapours)	> 6.1 mg/l Source: IUCLID
ATE CLP (oral)	1920 mg/kg bodyweight

Geranyl acetate (105-87-3)

LD50 oral rat	6330 mg/kg bodyweight Animal: rat, 95% CL: 5450 - 7340
ATE CLP (oral)	6330 mg/kg bodyweight

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beta-Caryophyllene (87-44-5)	
LD50 oral	> 5000 mg/kg bodyweight Animal: mouse, Animal sex: male
Methyl benzoate (93-58-3)	
LD50 oral	1350 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
ATE CLP (oral)	500 mg/kg bodyweight
benzyl benzoate (120-51-4)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 oral	1160 mg/kg
LD50 dermal rabbit	4000 mg/kg
ATE CLP (oral)	500 mg/kg bodyweight
ATE CLP (dermal)	4000 mg/kg bodyweight
Benzyl salicylate (118-58-1)	
LD50 oral	2227 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: EU Method B.3 (Acute Toxicity (Dermal))
Farnesol (4602-84-0)	
LD50 oral rat	> 5000 mg/kg Source: HSDB;
LD50 dermal rat	> 15000 mg/kg bodyweight Animal: rat
Geraniol (106-24-1)	
LD50 oral rat	3600 mg/kg bodyweight Animal: rat, 95% CL: 2840 - 4570
LD50 oral	3600 mg/kg
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit
ATE CLP (oral)	3600 mg/kg bodyweight
3-Methyl-2-butenyl acetate (1191-16-8)	
LD50 oral	3000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit
isoeugenol (97-54-1)	
LD50 oral rat	1560 mg/kg Source: Corporate Solution From Thomson Micromedex
LD50 oral	542 mg/kg
LD50 dermal	1912 mg/kg
ATE CLP (oral)	1560 mg/kg bodyweight
ATE CLP (dermal)	1100 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust,mist)	1.5 mg/l/4h

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trans-Anethole (4180-23-8)	
LD50 oral rat	1420 – 3070 mg/kg bodyweight Animal: rat, 95% CL: 2090 -
LD50 oral	3000 mg/kg
LD50 dermal rabbit	> 4900 mg/kg bodyweight Animal: rabbit, Guideline: EU Method B.3 (Acute Toxicity (Dermal))
ATE CLP (oral)	1420 mg/kg bodyweight
alpha-Pinene (80-56-8)	
LD50 oral rat	2100 mg/kg Source: International Uniform Chemical Information Database
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
ATE CLP (oral)	500 mg/kg bodyweight
Terpinolene (586-62-9)	
LD50 oral rat	4.39 ml/kg Source: ECHA
LD50 oral	3775 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	> 4300 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
ATE CLP (oral)	4390 mg/kg bodyweight
Caryophyllene oxide (1139-30-6)	
LD50 oral rat	> 5000 mg/kg Source: TOMES, RTECS, ChemIDplus
LD50 dermal rabbit	> 2000 mg/kg Source: RTECS, ChemIDplus
beta-Pinene (127-91-3)	
LD50 oral rat	4700 mg/kg Source: NLM, THOMSON
p-Mentha-1,3-diene (99-86-5)	
LD50 oral rat	1680 mg/kg Source: Corporate Solution From Thomson Micromedex
LD50 oral	1680 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
ATE CLP (oral)	1680 mg/kg bodyweight
Eucalyptol (470-82-6)	
LD50 oral rat	2480 mg/kg Source: NLM; chemIDplus, TOMES; LOLI, RTECS;
LD50 oral	2480 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
ATE CLP (oral)	2480 mg/kg bodyweight
Hexyl acetate (142-92-7)	
LD50 dermal rabbit	> 5000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

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Methyl salicylate (119-36-8)	
LD50 oral rat	887 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 715 - 1100
LD50 oral	890 mg/kg
ATE CLP (oral)	890 mg/kg bodyweight
benzyl alcohol (100-51-6)	
LD50 oral rat	1610 mg/kg Source: OECD SIDS
LD50 oral	1570 mg/kg
LD50 dermal rat	2000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: EPA OTS 798.1100 (Acute Dermal Toxicity), Remarks on results: other:
LC50 Inhalation - Rat	> 4.178 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
LC50 Inhalation - Rat (Vapours)	> 4.178 mg/l
ATE CLP (oral)	1200 mg/kg bodyweight
Phenethyl acetate (103-45-7)	
LD50 oral	2500 mg/kg bodyweight
LD50 dermal rabbit	6210 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), 95% CL: 3890 - 9900
LC50 Inhalation - Rat	> 0.766 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Not classified.
Additional information	: Based on available data, the classification criteria are not met
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Benzyl acetate (140-11-4)	
IARC group	3 - Not classifiable
Geraniol (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:Effect type: toxicity (migrated information)
Reproductive toxicity	: Reproductive toxicity: Not classified.
Additional information	: Based on available data, the classification criteria are not met
Benzyl salicylate (118-58-1)	
NOAEL (animal/male, F0/P)	540 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 415 (One-Generation Reproduction Toxicity Study)
NOAEL (animal/female, F0/P)	180 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 415 (One-Generation Reproduction Toxicity Study)
3-Methyl-2-butenyl acetate (1191-16-8)	
NOAEL (animal/male, F0/P)	243.2 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: other:OECD 408 including reproductive parameters
NOAEL (animal/female, F0/P)	307.2 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:OECD 408 including reproductive parameters

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Terpinolene (586-62-9)	
NOAEL (animal/male, F0/P)	294.6 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
NOAEL (animal/female, F0/P)	161.5 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
isoeugenol (97-54-1)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
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)
Geranyl acetate (105-87-3)	
NOAEL (oral, rat, 90 days)	2000 mg/kg bodyweight Animal: rat, Guideline: other:Specifications for the Conduct of Studies to Evaluate the Toxic and Carcinogenic Potential of Chemical, Biological, and Physical Agents in Laboratory Animals for the National Toxicology Program (NTP)
benzyl benzoate (120-51-4)	
NOAEL (dermal, rat/rabbit, 90 days)	781 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
Benzyl salicylate (118-58-1)	
NOAEL (oral, rat, 90 days)	177 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
Geraniol (106-24-1)	
NOAEL (dermal, rat/rabbit, 90 days)	300 mg/kg bodyweight Animal: rat, Guideline: other:OECD Guideline 421 (Reproduction/Developmental Toxicity Screening test), Guideline: other:EPA OPPTS 870.3550 (Reproduction/Developmental Toxicity Screening Test)
trans-Anethole (4180-23-8)	
NOAEL (oral, rat, 90 days)	≈ 300 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
Eucalyptol (470-82-6)	
NOAEL (oral, rat, 90 days)	600 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: other:japanese Ministry of Economy Trade and Industry Guideline for 28 day repeat oral dose toxicity study., Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents), Guideline: EPA OPPTS 870.3150 (90-Day Oral Toxicity in Nonrodents)
Methyl salicylate (119-36-8)	
NOAEL (oral, rat, 90 days)	50 mg/kg bodyweight Animal: rat
benzyl alcohol (100-51-6)	
NOAEL (oral, rat, 90 days)	400 mg/kg bodyweight Animal: rat, Guideline: other:OECD Guideline 451 (Carcinogenicity Studies)
Aspiration hazard	: May be fatal if swallowed and enters airways.

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YLANG EXTRA EO (8006-81-3)	
Viscosity, kinematic	< 20.5 mm²/s
Linalool (78-70-6)	
Viscosity, kinematic	5.192 mm²/s
Benzyl salicylate (118-58-1)	
Viscosity, kinematic	5.419 mm²/s
benzyl alcohol (100-51-6)	
Viscosity, kinematic	0.005 mm²/s

11.2. Information on other hazards

Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.
Ecology - water : Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute) : Not classified
Hazardous to the aquatic environment, long-term (chronic) : Harmful to aquatic life with long lasting effects.

YLANG EXTRA EO (8006-81-3)	
LC50 - Fish [1]	32 mg/l
EC50 - Crustacea [1]	10.4 mg/l
EC50 72h - Algae [1]	100 mg/l
NOEC chronic algae	0.73 mg/l
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 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)
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'

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p-Methylanisole (104-93-8)	
LC50 - Fish [1]	68.2 mg/l Test organisms (species): Leuciscus idus
EC50 - Crustacea [1]	27 mg/l Test organisms (species): Daphnia magna
EC50 96h - Algae [1]	> 500 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
Geranyl acetate (105-87-3)	
LC50 - Fish [1]	68.12 mg/l Test organisms (species): Leuciscus idus
EC50 - Crustacea [1]	14.1 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	3.72 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
beta-Caryophyllene (87-44-5)	
EC50 - Crustacea [1]	> 0.17 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 0.033 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
Methyl benzoate (93-58-3)	
LC50 - Fish [1]	23 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 72h - Algae [1]	111.9 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
benzyl benzoate (120-51-4)	
LC50 - Fish [1]	2.32 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	3.09 mg/l Test organisms (species): Daphnia magna
Benzyl salicylate (118-58-1)	
LC50 - Fish [1]	1.03 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
LC50 - Other aquatic organisms [1]	1.7 mg/l
EC50 - Crustacea [1]	1.16 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	1.29 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	1.29 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
Farnesol (4602-84-0)	
LC50 - Fish [1]	1.8 mg/l
EC50 - Crustacea [1]	2.2 mg/l
EC50 72h - Algae [1]	1.49 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.334 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
Geraniol (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 72h - Algae [1]	13.1 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

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3-Methyl-2-butenyl acetate (1191-16-8)	
LC50 - Fish [1]	23.5 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	64.3 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	> 84.4 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
isoeugenol (97-54-1)	
LC50 - Fish [1]	9.59 mg/l Source: Ecological Structure Activity Relationships
EC50 96h - Algae [1]	21.684 mg/l Source: Ecological Structure Activity Relationships
trans-Anethole (4180-23-8)	
LC50 - Fish [1]	≈ 7 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	≈ 4.25 mg/l Test organisms (species): Daphnia magna
alpha-Pinene (80-56-8)	
LC50 - Fish [1]	0.28 mg/l Source: International Uniform Chemical Information Database
EC50 - Crustacea [1]	0.475 mg/l Test organisms (species): Daphnia magna
Terpinolene (586-62-9)	
LC50 - Fish [1]	0.805 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
EC50 - Crustacea [1]	0.634 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	0.692 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.302 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
Caryophyllene oxide (1139-30-6)	
LC50 - Fish [1]	0.444 mg/l Source: EPISUITE
EC50 96h - Algae [1]	0.281 mg/l Source: EPISUITE
beta-Pinene (127-91-3)	
LC50 - Fish [1]	0.624 mg/l Source: ECOSAR
p-Mentha-1,3-diene (99-86-5)	
LC50 - Fish [1]	0.263 mg/l Source: Ecological Structure Activity Relationships
EC50 - Crustacea [1]	1.7 mg/l Test organisms (species): Daphnia magna
EC50 96h - Algae [1]	0.249 mg/l Source: Ecological Structure Activity Relationships
Eucalyptol (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)
Hexyl acetate (142-92-7)	
EC50 - Crustacea [1]	9.1 mg/l Test organisms (species): Daphnia magna

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Methyl salicylate (119-36-8)	
LC50 - Fish [1]	19.8 mg/l Test organisms (species): Pimephales promelas
LC50 - Fish [2]	1370 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	28 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	1.6 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	1.1 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 96h - Algae [1]	0.895 mg/l Source: ECOSAR

benzyl alcohol (100-51-6)	
LC50 - Fish [1]	460 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	230 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	770 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	500 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	76828 mg/l Test organisms (species): other:
NOEC (chronic)	51 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	48897 mg/l Test organisms (species): other: Duration: '30 d'

Phenethyl acetate (103-45-7)	
LC50 - Fish [1]	10.5 mg/l Test organisms (species):
EC50 - Crustacea [1]	36.6 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	40 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	13 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)

12.2. Persistence and degradability

YLANG EXTRA EO (8006-81-3)	
Persistence and degradability	May cause long-term adverse effects in the environment.

Linalool (78-70-6)	
Persistence and degradability	Rapidly degradable

Germacrene D (23986-74-5)	
Persistence and degradability	Rapidly degradable

Benzyl acetate (140-11-4)	
Persistence and degradability	Rapidly degradable

p-Methylanisole (104-93-8)	
Persistence and degradability	Rapidly degradable

Alpha-farnesene (97885-54-6)	
Persistence and degradability	Rapidly degradable

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Geranyl acetate (105-87-3)	
Persistence and degradability	Rapidly degradable
beta-Caryophyllene (87-44-5)	
Persistence and degradability	Rapidly degradable
Methyl benzoate (93-58-3)	
Persistence and degradability	Rapidly degradable
benzyl benzoate (120-51-4)	
Persistence and degradability	Rapidly degradable
Benzyl salicylate (118-58-1)	
Persistence and degradability	Rapidly degradable
Farnesol (4602-84-0)	
Persistence and degradability	Rapidly degradable
Geraniol (106-24-1)	
Persistence and degradability	Rapidly degradable
3-Methyl-2-butenyl acetate (1191-16-8)	
Persistence and degradability	Rapidly degradable
isoeugenol (97-54-1)	
Persistence and degradability	Rapidly degradable
trans-Anethole (4180-23-8)	
Persistence and degradability	Rapidly degradable
alpha-Pinene (80-56-8)	
Persistence and degradability	Rapidly degradable
Terpinolene (586-62-9)	
Persistence and degradability	Rapidly degradable
Caryophyllene oxide (1139-30-6)	
Persistence and degradability	Rapidly degradable
beta-Pinene (127-91-3)	
Persistence and degradability	Rapidly degradable
p-Mentha-1,3-diene (99-86-5)	
Persistence and degradability	Rapidly degradable
Eucalyptol (470-82-6)	
Persistence and degradability	Rapidly degradable
Hexyl acetate (142-92-7)	
Persistence and degradability	Rapidly degradable
Methyl salicylate (119-36-8)	
Persistence and degradability	Rapidly degradable

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benzyl alcohol (100-51-6)	
Persistence and degradability	Rapidly degradable
Phenethyl acetate (103-45-7)	
Persistence and degradability	Rapidly degradable
12.3. Bioaccumulative potential	
YLANG EXTRA EO (8006-81-3)	
Bioaccumulative potential	Not established.
Linalool (78-70-6)	
Partition coefficient n-octanol/water (Log Pow)	2.97 Source: International Chemical Safety Cards
Benzyl acetate (140-11-4)	
Partition coefficient n-octanol/water (Log Pow)	1.96
p-Methylanisole (104-93-8)	
Partition coefficient n-octanol/water (Log Pow)	2.66
benzyl benzoate (120-51-4)	
Partition coefficient n-octanol/water (Log Pow)	3.97 Source: ICSC
Benzyl salicylate (118-58-1)	
Partition coefficient n-octanol/water (Log Pow)	4.8
Farnesol (4602-84-0)	
Partition coefficient n-octanol/water (Log Pow)	5.77 Source: EPISUITE
Geraniol (106-24-1)	
Partition coefficient n-octanol/water (Log Pow)	3.56
isoeugenol (97-54-1)	
Partition coefficient n-octanol/water (Log Pow)	3.04 Source: ChemIDplus
alpha-Pinene (80-56-8)	
Partition coefficient n-octanol/water (Log Pow)	4.834 Source: International Uniform Chemical Information Database
Terpinolene (586-62-9)	
Partition coefficient n-octanol/water (Log Pow)	4.47 Source: National Library of Medicine/Hazardous Substances Data Bank
Caryophyllene oxide (1139-30-6)	
Partition coefficient n-octanol/water (Log Pow)	4.91
beta-Pinene (127-91-3)	
Partition coefficient n-octanol/water (Log Pow)	4.16
p-Mentha-1,3-diene (99-86-5)	
Partition coefficient n-octanol/water (Log Pow)	4.25 Source: ChemIDplus
Eucalyptol (470-82-6)	
Partition coefficient n-octanol/water (Log Pow)	2.74

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Methyl salicylate (119-36-8)

Partition coefficient n-octanol/water (Log Pow)	2.55 Source: ICSC
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benzyl alcohol (100-51-6)

Partition coefficient n-octanol/water (Log Pow)	1.1
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12.4. Mobility in soil

Linalool (78-70-6)

Mobility in soil	76 Source: HSDB
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p-Methylanisole (104-93-8)

Mobility in soil	671.43
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Farnesol (4602-84-0)

Mobility in soil	5072 Source: EPISUITE
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alpha-Pinene (80-56-8)

Mobility in soil	2600 Source: HSDB
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Caryophyllene oxide (1139-30-6)

Mobility in soil	3551 Source: EPISUITE
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Eucalyptol (470-82-6)

Mobility in soil	223.9 Source: EPISUITE
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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

YLANG EXTRA EO (8006-81-3)

Other information	Avoid release to the environment.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
Ecological waste information	: Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information

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

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ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated for transport				
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

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

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 (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

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Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

Explosives Precursors Regulation (EU 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 (EC 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)

National regulations

Denmark

Class for fire hazard	: Class III-1
Store unit	: 50 liter
Classification remarks	: Flammable according to the Danish Ministry of Justice; Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations	: Young people below the age of 18 years are not allowed to use the product Pregnant/breastfeeding women working with the product must not be in direct contact with it. If an employee is pregnant or breastfeeding and the person in question uses or is exposed to this product at work, the employer must always carry out a risk assessment of the work. The assessment must both deal with the dangerousness of the impact and its strength and duration. The employer's decision that a pregnant or lactating woman can perform a specific work task must therefore be made in the context of her specific working conditions. See also WEA-Guideline A.1.8-7 on the working environment of pregnant and breastfeeding workers.

Germany

Water hazard class (WGK)	: WGK 2, Significantly hazardous to water (Classification according to AwSV; ID No. 3830).
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Netherlands

SZW-lijst van kankerverwekkende stoffen	: The substance is not listed
SZW-lijst van mutagene stoffen	: The substance is not listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	: The substance is not listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	: The substance is not listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	: The substance is not listed

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Poland

Polish National Regulations

: Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).
Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).
The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).
Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).
Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).
Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).
The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)
Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).
Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).
ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891)
Regulation of the Minister of Health of 25 August 2015 on the method of marking places, pipelines, and containers and tanks used for storing or containing hazardous substances or hazardous mixtures (J.o.L. 2015, item 1368 as amended)

15.2. Chemical safety assessment

A chemical safety assessment has been carried out
No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes

Section	Changed item	Comments
9	Vapour pressure	Added

Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level

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Abbreviations and acronyms:	
EC No (EC/EINECS/ELINCS)	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS	Chemical Abstracts Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disruptor

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), 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 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment – Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3

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Full text of H- and EUH-statements:	
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
Skin Sens. 1A	Skin sensitisation, category 1A
Skin Sens. 1B	Skin sensitisation, category 1B
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H361	Suspected of damaging fertility or the unborn child.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet (SDS), EU

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.