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MATERIAL SAFETY DATA SHEET

According to Regulation (EU) No 1272 of 2008 and Regulation (EC) No 1907/2006 (REACH), as amended by (EU) 2020/878

Organic Ylang – Ylang Oil

Version 03 Date of creation: 20.04.2018
Supersedes the version from: 31.08.2022 Date of new version: 19.10.2023

1. Identification of the substance/mixture and the company/undertaking

1.1. Product Identifiers

Trade name	:	Organic Ylang – Ylang Oil – I quality
Substance name (INCI)	:	CANANGA ODORATA FLOWER OIL
REACH Registration №	:	-
CAS №	:	83863-30-3 / 8006-81-3 / 68606-83-7
EO №	:	281-092-1 / - / -
Biological origin	:	Obtained from the flowers of the tropical tree Cananga odorata (D.C) Hook et Thomson ssp.genuine, of the family Anonaceae. ISO 3063

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

Use of substance/mixture	:	Used in perfumery and cosmetics by itself or as a formulation constituent, a part of composition.
Recommended restrictions on use	:	Avoid contact with eyes!
Reason not to recommend use:		May cause irritation.

1.3. Details of the supplier of the safety data sheet

Manufacturer **:** ALTEYA ORGANICS LLC
Mailing address/Postal code **: 6167,** village of Yagoda,1, Rozovarna St.
Country identifier/
Postal code/city or town **:** Bulgaria

Telephone/Mobile/Fax : +359 700 15 502
E-mail of the competent person responsible for the Safety Data Sheet : salesbg@alteya.com
National contact person : Kaloyan Stoev

1.4. Emergency telephone number

Clinic of Toxicology at MPHATEM N.I. Pirogov
Emergency telephone number: 02 9154409; (regular working time, Saturdays and Sundays excluded) or 02 9154 346 (24h service, all week)
e-mail: poison_centre@mail.orbitel.bg
http//www.pirogov.net

2. Hazards Identification

2.1. Classification of the substance or mixture

2.1.1. Classification according to Regulation (EC) No 1272/2008 (CLP)

Classification according to GHS				
Chapter	**Subsection**	**Class of hazard**	**Class of hazard and category of hazard**	**Hazard statements**
3.10	Inh.	Aspiration hazard	(Asp Tox 1)	H304
3.2	Skin	Skin irritation	Corrosion/irritation 2	H315
3.4	Sens.	Sensitization — skin	(Skin sens 1)	H317
3.3	Eye	Eye irritation	(Corrosion)Damage/ Irritation. 2A	H319
4.1	Chronic	Harmful to aquatic life	Aquatic Chronic 3	H412

2.1.2. Additional information:

For the full text of hazard statements and EU hazard statements: see SECTION 16.

2.2. Label Elements

Labeling according Regulation (EC) No 1272/2008 [CLP]:

Hazard pictograms

GHS07 GHS08

Signal word : Hazardous

Hazard statements : H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H319 Causes serious eye irritation.

Hazard statements concerning environment : H412 Harmful to aquatic life with long lasting effects

EUH 208 Contains Isoeugenol, Benzyl Salicylate, Geraniol, Linalool, Benzyl Benzoate, Limonene, Alpha-Pinene, beta-Pinene, Terpinolene, Anethole, Beta-Caryophyllene, Methyl Salicylate, Terpineol, Geranyl acetate, Eugenyl Acetate, Farnesol. May cause an allergic reaction.

Safety recommendations

Safety recommendations

- General :

P102	Keep out of reach of children

Safety recommendations

- Prevention :

P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Safety recommendations

- As a reaction :

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/.
P331	Do NOT induce vomiting.
P312	Call a POISON CENTER/doctor/… if you feel unwell.
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.
P362+P364	Remove contaminated clothing and wash before reuse
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water and soap

- If stored

P233	Keep container tightly closed
P405	Store locked up

Safety recommendations

- At disposal :

P501 Dispose of contents / container at an approved disposal site in accordance with local and national regulations.

2.3. Other hazards

May cause skin irritation/allergy. A patch test is recommended.
The substance is not PBT / vPvB.

3. Composition/information on ingredients

3.1. Substances/Mixture

INGRIDIENT	*IDENTIFIERS*	*%*	*CLASSIFICATION*
CANANGA ODORATA FLOWER OIL	*EINECS NO: 281-092-1 / - / -* *CAS NO: 83863-30-3 / 8006-81-3 / 68606-83-7*	*100,0*	 *DANGER* *Asp. Tox. 1 / H304* *Skin Irrit. 2 / H315* *Skin Sens. 1 / H317* *Eye .irrit, 2A/ H319* *Aquatic Chronic 3 / H412*
LIMONENE	*EINECS NO: 227-813-5* *CAS NO: 5989-27-5*	*< 0,5*	*Flam. Liq. 3 / H226* *Skin Irrit. 2 / H315* *Skin Sens. 1 / H317* *Aquatic Acute 1 / H400* *Aquatic Chronic 1 / H410*
ISOEUGENOL	*EINECS NO: 202-590-7* *CAS NO: 97-54-1*	*0,5 – 0,8*	*Acute Tox. 5 - H303* *Acute Derm. 5 - H313* *Skin Irrit. 2 / H315* *Skin Sens. 1 / H317* *Eye Irrit. 2 / H319* *Aquatic Acute 2 / H401*
LINALOOL	*EINECS NO: 201-134-4* *CAS NO: 78-70-6*	*5,0 – 15,0*	*Eye Irrit. 2A (H319)* *Skin Sens. 1B (H317)* *Skin Irrit. 2 (H315)*
BENZYL SALICYLATE	*EINECS NO: 204-262-9* *CAS NO: 118-58-1*	*5,0 - 22,3*	*Eye Irrit. 2A (H319)* *Skin Sens. 1B (H317)* *Aquatic Chronic 3 / H412*
BENZYL BENZOATE	*EINECS NO: 204-402-9* *CAS NO: 120-51-4*	*5,0 – 10,0*	*Acute Tox. 4; H302* *Aquatic Chronic 2, H411*
GERANIOL	*EINECS NO: 203-377-1* *CAS NO: 106-24-1*	*< 1,0*	*Skin Irrit. 2 – H315* *Eye Dam. 1 - H318* *Skin Sens. 1 – H317*
Benzyl acetate	*EINECS NO: 205-399-7* *CAS NO: 140-11-4*	*5,0 – 16,0*	*Aquatic Chronic 3;H412*

alpha-Pinene	*EINECS NO: 201-291-9* *CAS NO: 80-56-8*	*0,3 - 0,5*	*Flam. Liq. 3, H226* *Asp. Tox. 1, H304* *Skin Irrit. 2, H315* *Skin Sens. 1, H317* *Aquatic Chronic 1, H400* *Aquatic Chronic 1, H410*
beta-Pinene	*EINECS NO: 204-872-5* *CAS NO: 127-91-3*	*0,1 - 0,2*	*Flam. Liq. 3, H226* *Asp. Tox. 1, H304* *Skin Irrit. 2, H315* *Skin Sens. 1, H317* *Aquatic Chronic 1, H400* *Aquatic Chronic 1, H410*
TERPINOLENE	*EINECS NO: 209-578-0* *CAS NO: 586-62-9*	*0,1 – 0,3*	*Asp. Tox. 1, H304* *Skin Sens. 1, H317* *Aquatic Chronic 1 / H410*
ANETHOLE	*EINECS NO: 203-205-5* *CAS NO: 104-46-1*	*0,6 – 0,8*	*Acute Tox. 4 H302* *Ac. tox., derm. Cat.4, H312* *Ac. tox., inh. Cat. 4, H332* *Skin Irrit. 2, H315* *eye irritation Cat. 2B, H320* *Res.irrit,Cat. 3, H335*
BETA-CARYOPHYLLENE	*EINECS NO: 203-205-5* *CAS NO: 104-46-1*	*6,0 – 7,0*	*Asp. Tox. 1, H304* *Skin Sens. 1, H317*
TERPINEOL	*EINECS NO: 232-268-1/202-680-6/205-342-6/209-584-3* *CAS NO: 8000-41-7/98-55-5/138-87-4/586-81-2*	*0,3 – 0,5*	*Skin Irrit. 2, H315* *Eye .irrit, Cat. 2A; H319*
METHYL SALICYLATE	*EINECS NO: 204-317-7* *CAS NO: 119-36-8*	*0,8 – 1,0*	*Acute Tox. 4 H302* *Skin Sens. 1B H317* *Eye Dam. 1 - H318* *Repr. 2 H361d* *Aquatic Chronic 3 H412*
GERANYL ACETATE	*EINECS NO: 203-341-5* *CAS NO: 105-87-3*	*5,0 – 6,3*	*Skin Irrit. Cat.2, H315* *Eye .irrit, Cat. 2A; H319* *Aquatic Chronic 4, H412*
EUGENYL ACETATE	*EINECS NO: 202-235-6* *CAS NO: 93-28-7*	*0,3 – 0,4*	*Acute Tox. 4 H302* *Skin Irrit. Cat.2, H315* *Skin Sens. 1B H317*
FARNESOL	*EINECS NO: 226-004-1* *CAS NO: 4602-84-0*	*0,2 – 0,3*	*Skin Irrit. 2 – H315* *Skin Sens. Cat.1, H317* *Eye Irrit. 2A H319*

4. First Aid Measures

4.1. Description of first aid measures

- General notes	:	If you feel unwell, seek medical attention (show the label if possible)
- Following inhalation	:	It is unlikely to occur under normal conditions of use. Move exposed person to fresh air. Seek medical attention if discomfort persists.
- Following skin contact	:	No harmful effect on normal skin. If skin irritation occurs, wash with soap and water and rinse thoroughly. If skin irritation persists, consult a physician.
- Following eye contact	:	Immediately rinse with plenty of water, also under the eyelids for at least 15 minutes. If symptoms persist, seek medical attention.
- Following ingestion	:	Not an expected route of exposure. In case of ingestion, if the amount is small, rinse the mouth with milk or water and consult a doctor. Keep the exposed person at rest. DO NOT force vomiting unless directed by medical personnel.
- Self-protection of first aid provider	:	No information available.

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

Following eye contact	:	May cause eye irritation and corneal damage if not rinsed immediately.
Following skin contact	:	Repeated contact may cause allergic dermatitis.
Folowing inhalation	:	Inhalation of high vapor concentrations may cause anesthetic effects.
Following ingestion	:	Not an expected route of exposure.

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

Treatment	:	There is no specific antidote. Treat symptomatically.

5. Fire-fighting Measures

5.1. Extinguishing media

Suitable extinguishing media	:	Use water jet, alcohol-free foam, dry chemical, multipurpose ABC powder, BC powder, carbon dioxide.
Unsuitable extinguishing media	:	water jet (straight jet).

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products		Combustible. In case of fire, there may be formed carbon monoxide (CO), carbon dioxide (CO2).
Specific hazards during fire-fighting	:	No information

5.3. Advice for firefighters

Special protective equipment for firefighters	:	Wear personal protective equipment, self-contained breathing apparatus, full protective clothing.
additional information	:	Do not inhale smoke in case of fire and/or explosion. Do not allow extinguishing water to enter drains or water sources. Extinguish the fire with the usual precautions from a reasonable distance. Wear a self-contained breathing apparatus.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For personnel not responsible for emergencies

Protective equipment	:	Wear personal protective equipment. Consult the safety precautions listed in Sections 7 and 8.
Emergency procedures	:	Removal of ignition sources.

6.1.2. For the persons responsible for emergencies

Stop the leak if you can do so without risk. Avoid product contact with skin, eyes and clothing. Do not breathe vapors/aerosol. Consult the safety precautions listed in Sections 7 and 8.

6.2. Environmental precautions

Environmental Precautions	:	Contain and control leaks or spills with non-flammable absorbent materials such as sand, earth, vermiculite or diatomaceous earth in waste disposal drums. Avoid getting the product into drains or waterways. Inform the relevant authorities in case of leakage into the sewage system or waterways.

6.3. Methods and materials for containment and cleaning up

6.3.1.	For containment	:	Covering of drains
6.3.2.	For cleanup	:	Absorb spill with non-flammable material (such as detergent - do not use solvents) and transfer to containers.
6.3.3.	Other information	:	Place in appropriate containers for disposal. Ventilate the affected area.

6.4. Reference to other sections

For personal protection see section 8.

7. Handling and Storage

7.1. Precautions for safe handling

Precautions	:	Work following the good occupational hygiene and safety practice. Avoid unintentional contact with skin surfaces. Wear appropriate protective equipment. Avoid inhalation. Provide good ventilation or aspiration in the workplace. Avoid contact with eyes. Always wash hands after work. Remove and wash contaminated clothing before reuse. Make sure there is adequate ventilation, especially in enclosed areas.

Fire-fighting measures	:	Keep away from ignition sources. Do not smoke.
Measures to avoid transformation into aerosols and powder	:	No data.
Environmental precautions	:	Follow the storage instructions for the product.
Advice on general occupational hygiene	:	Wash your hands before breaks and at the end of the working day. Avoid eye and skin contact.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	:	Keep container tightly closed. Store away from food and drinks.
Packing materials	:	Store in closed glass containers, away from heat, light and other sources of ignition. Store in a cool place.
Storage class	:	No information
Additional information on storage conditions	:	Store in a closed container at temperature 15-25°C.
Requirements to storage areas or containers	:	Store only in original packaging.
Recommendations for fire and: explosion protection		Keep away from ignition sources.
Dust explosion class	:	No information
Recommendations for primary storage	:	Store in a dark and cool place.

7.3. Specific end use(s)

Recommendations	:	No information available.
Solutions specific to the industrial sector	:	No information available.

Specific use(s)	:	Used in perfumery and cosmetics by itself or as a formulation constituent, included in a composition.
Additional information:		Follow the regulation relative to the application: • The cosmetics product regulations if advertised as cosmetics (for instance perfume, highly diluted essential oils for use on the body as massage oils or bath supplements).

8. Exposure controls/Personal protection equipment

8.1. Control parameters

National limit values

No information available.

Occupational exposure limits on the basis of data base of international limit values GESTIS

Human health values

Isoeugenol
Components Isoeugenol, CAS-No. 97-54-1, Value type (Form of exposure) TWA, Control parameters / Permissible concentration 250 µg/m3 (OEB2) Basis – Internal

Value type (Form of exposure) Wipe limit
Control parameters / Permissible concentration 100 µg/100 cm² , Basis – Internal

Benzyl Salicylate
DNEL 7,8 mg/m³ human, inhalation industrial worker chronic - systemic effects
DNEL 2,21 mg/kg bw/day human, dermal industrial worker chronic - systemic effects

Geraniol
DNEL 161,6 mg/m³ human, inhalation industrial worker chronic - systemic effects
DNEL 12,5 mg/kg bw/day human, dermal industrial worker chronic - systemic effects
DNEL 11.800 µg/cm² human, dermal industrial worker chronic - local effects

Linalool
DNEL 2,8 mg/m³ human, inhalation industrial worker chronic - systemic effects
DNEL 16,5 mg/m³ human, inhalation industrial worker acute - systemic effects
DNEL 2,5 mg/kg bw/day human, dermal industrial worker chronic - systemic effects
DNEL 5 mg/kg bw/day human, dermal industrial worker acute - systemic effects

Benzyl Benzoate
DNEL 5,1 mg/m³ human, inhalation industrial worker chronic - systemic effects
DNEL 102 mg/m³ human, inhalation industrial worker acute - systemic effects
DNEL 2,6 mg/kg bw/day human, dermal industrial worker chronic - systemic effects

Limonene
DNEL 66,7 mg/m³ human, inhalation industrial worker chronic - systemic effects
DNEL 9,5 mg/kg bw/day human, dermal industrial worker chronic - systemic effects

α-Pinene
GB cycloalkanes (>C7) 80-56-8 WEL 800 EH40/2005

beta-Pinene
DNEL 5,69 mg/m³ human, inhalatory worker (industry) chronic - systemic effects
DNEL 0,8 mg/kg bw/day human, dermal worker (industry) chronic - systemic effects
DNEL 54 µg/cm² human, dermal worker (industry) chronic - local effects

Methyl Salicylate
DNEL 17,5 mg/m³ human, inhalation industrial worker chronic - systemic effects
DNEL 285 mg/m³ human, inhalation industrial worker acute - systemic effects
DNEL 6 mg/kg bw/day human, dermal industrial worker chronic - systemic effects

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Terpineol 8000-41-7
DNEL 44,8 mg/m³ human, inhalation industrial worker chronic - systemic effects
DNEL 6,36 mg/kg bw/day human, dermal industrial worker chronic - systemic effects

Geranyl acetate 105-87-3
Geranyl acetate 105-87-3 DNEL 62.59 mg/m³ human, inhalatory worker (industry) chronic - systemic effects
Geranyl acetate 105-87-3 DNEL 35.5 mg/kg bw/day human, dermal worker (industry) chronic - systemic effects

Acetic acid, 140-11-4
DNEL 9 mg/m³ human, inhalation industrial worker chronic - systemic effects
DNEL 2,5 mg/kg bw/day human, dermal industrial worker chronic - systemic effects

Benzyl benzoate
DNEL 5,1 mg/m³ human, inhalation industrial worker chronic - systemic effects
DNEL 102 mg/m³ human, inhalation industrial worker acute - systemic effects
DNEL 2,6 mg/kg bw/day human, dermal industrial worker chronic - systemic effects

Benzyl salicylate
DNEL 7,8 mg/m³ human, inhalation industrial worker chronic - systemic effects
DNEL 2,21 mg/kg bw/day human, dermal industrial worker chronic - systemic effects

Relevant PNEC- mixture components

Benzyl Salicylate
PNEC 0,001 mg/l aquatic organisms freshwater short-term (instant)
PNEC 0 mg/l aquatic organisms marine water short-term (instant)
PNEC 10 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
PNEC 0,583 mg/kg aquatic organisms freshwater sediment short-term (instant)
PNEC 0,058 mg/kg aquatic organisms marine sediment short-term (instant)
PNEC 1,41 mg/kg terrestrial organisms soil short-term (instant)

Geraniol
PNEC 0,011 mg/l aquatic organisms freshwater short-term (instant)
PNEC 0,001 mg/l aquatic organisms marine water short-term (instant)
PNEC 0,7 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
PNEC 0,115 mg/kg aquatic organisms freshwater sediment short-term (instant)
PNEC 0,011 mg/kg aquatic organisms marine sediment short-term (instant)
PNEC 0,017 mg/kg terrestrial organisms soil short-term (instant)

Linalool
PNEC 0,2 mg/l aquatic organisms freshwater short-term (instant)
PNEC 0,02 mg/l aquatic organisms marine water short-term (instant)
PNEC 10 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
PNEC 2,22 mg/kg aquatic organisms freshwater sediment short-term (instant)
PNEC 0,222 mg/kg aquatic organisms marine sediment short-term (instant)
PNEC 0,327 mg/kg terrestrial organisms soil short-term (instant)

Benzyl Benzoate
PNEC 0,017 mg/l aquatic organisms freshwater short-term (instant)
PNEC 0,002 mg/l aquatic organisms marine water short-term (instant)
PNEC 100 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
PNEC 10,66 mg/kg aquatic organisms freshwater sediment short-term (instant)
PNEC 1,07 mg/kg aquatic organisms marine sediment short-term (instant)
PNEC 2,12 mg/kg terrestrial organisms soil short-term (instant)

Limonene
PNEC 14 µg/l aquatic organisms freshwater short-term (instant)
PNEC 1,4 µg/l aquatic organisms marine water short-term (instant)
PNEC 1,8 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
PNEC 3,85 mg/kg aquatic organisms freshwater sediment short-term (instant)
PNEC 0,385 mg/kg aquatic organisms marine sediment short-term (instant)
PNEC 0,763 mg/kg terrestrial organisms soil short-term (instant)

beta-Pinene
PNEC 1,004 µg/l aquatic organisms freshwater short-term (single instance)
PNEC 0,1 µg/l aquatic organisms marine water short-term (single instance)

PNEC 3,26 mg/l aquatic organisms sewage treatment plant (STP) short-term (single instance)
PNEC 0,337 mg/kg aquatic organisms freshwater sediment short-term (single instance)
PNEC 0,034 mg/kg aquatic organisms marine sediment short-term (single instance)
PNEC 0,067 mg/kg terrestrial organisms soil short-term (single instance)

Methyl Salicylate
PNEC 20 µg/l aquatic organisms freshwater short-term (instant)
PNEC 2 µg/l aquatic organisms marine water short-term (instant)
PNEC 140 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
PNEC 0,52 mg/kg aquatic organisms freshwater sediment short-term (instant)
PNEC 0,052 mg/kg aquatic organisms marine sediment short-term (instant)
PNEC 0,35 mg/kg terrestrial organisms soil short-term (instant)

Terpineol 8000-41-7
PNEC 12 µg/l aquatic organisms freshwater short-term (instant)
PNEC 1,2 µg/l aquatic organisms marine water short-term (instant)
PNEC 2,57 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
PNEC 0,263 mg/kg aquatic organisms freshwater sediment short-term (instant)
PNEC 0,026 mg/kg aquatic organisms marine sediment short-term (instant)
PNEC 0,045 mg/kg terrestrial organisms soil short-term (instant)

Geranyl acetate 105-87-3
Geranyl acetate 105-87-3 PNEC 3.72 µg/l aquatic organisms freshwater short-term (single instance)
Geranyl acetate 105-87-3 PNEC 0.372 µg/l aquatic organisms marine water short-term (single instance)
Geranyl acetate 105-87-3 PNEC 8 mg/l aquatic organisms sewage treatment plant (STP) short-term (single instance)
Geranyl acetate 105-87-3 PNEC 0.442 mg/kg aquatic organisms freshwater sediment short-term (single instance)
Geranyl acetate 105-87-3 PNEC 0.044 mg/kg aquatic organisms marine sediment short-term (single instance)
Geranyl acetate 105-87-3 PNEC 0.086 mg/kg terrestrial organisms soil short-term (single instance)

Acetic acid, 140-11-4
PNEC 0,018 mg/l aquatic organisms freshwater short-term (instant)
PNEC 0,002 mg/l aquatic organisms marine water short-term (instant)
PNEC 8,55 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
PNEC 0,526 mg/kg aquatic organisms freshwater sediment short-term (instant)
PNEC 0,053 mg/kg aquatic organisms marine sediment short-term (instant)
PNEC 0,094 mg/kg terrestrial organisms soil short-term (instant)

Benzyl benzoate
PNEC 0,017 mg/l aquatic organisms freshwater short-term (instant)

PNEC 0,002 mg/l aquatic organisms marine water short-term (instant)
PNEC 100 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
PNEC 10,66 mg/kg aquatic organisms freshwater sediment short-term (instant)
PNEC 1,07 mg/kg aquatic organisms marine sediment short-term (instant)
PNEC 2,12 mg/kg terrestrial organisms soil short-term (instant)

Benzyl salicylate
PNEC 0,001 mg/l aquatic organisms freshwater short-term (instant)
PNEC 0 mg/l aquatic organisms marine water short-term (instant)
PNEC 10 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
PNEC 0,583 mg/kg aquatic organisms freshwater sediment short-term (instant)
PNEC 0,058 mg/kg aquatic organisms marine sediment short-term (instant)
PNEC 1,41 mg/kg terrestrial organisms soil short-term (instant)

8.2. Exposition controls

8.2.1. Appropriate engineering control

Measures related to the substance/ mixture to prevent exposure during identified uses :

General room or local exhaust ventilation is usually required in order to comply with exposure limits. Electrical equipment must be grounded and comply with applicable electrical code. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, using the bathroom and/or smoking. Wash work clothing and protective equipment regularly to remove contaminants.

8.2.2. Personal protective equipment: Gloves, Goggles, Protective clothing, Respirator

8.2.2.1.Eyes and face protection:

Use safety masks with side protection.

8.2.2.2.Skin protection

Hand protection : Wear suitable gloves. Chemical protection gloves that have been tested in accordance with EN 374 are suitable. For special purposes, it is recommended that the

chemical resistance of the above-mentioned protective gloves is checked, together with the supplier of these gloves. Times are approximate values from measurements at 22°C and constant contact. Elevated temperatures due to heated substances, body heat, etc. and reducing the effective layer thickness by stretching, can result in a significant reduction in breakthrough time. If in doubt, contact the manufacturer. At approximately 1.5 times greater / less layer thickness, the corresponding breakthrough time is doubled / halved. The data refer to the pure substance only. When transferred to mixtures of substances, they can only be considered as a guide.

Other skin protection : Allow recovery periods for skin regeneration. Prophylactic skin protection (protective creams/ointments) is recommended.

8.2.2.3. Respiratory tract protection : Respiratory protection is necessary in case of: Formation of aerosol mist.

8.2.2.4. Thermal hazards : None.

8.2.3. Environmental exposure control: Protection against contamination of drains, surface and ground water.

Measures related to the substance/: mixture, to avoid exposure No data available

Training measures required to avoid exposure : Staff training as per internal schedule.

Organization measures to avoid Exposure : Staff training

Technical measures to avoid Exposure : Staff training

Environmental exposure controls

Basic guidelines : Protect against contamination of drains, surface and ground water.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance/type	:	liquid
Colour	:	light yellow to reddish brown
Odour	:	Sweet, floral and slightly spicy, with balsamic/woody nuances in the drydown; a strong, floral scent reminiscent of jasmine and tuberose
Odor threshold	:	No information
pH	:	No information
Acid value, KOH/g	:	max. 2.0
Ester value, KOH/g	:	40.0 – 70.0
Melting point / freezing point	:	-80°C at 1.013 hPa (ECHA)
Boiling point	:	No information
Boiling point / boiling range	:	No information
Ignition temperature, in °C	:	88°C at 1.013 hPa (ECHA)
Evaporation rate	:	No information
Flammability (solid substance, gas)	:	No information
Upper flammability/ explosion limit	:	No information
Lower flammability/ explosion limit	:	No information
Vapour pressure	:	0,222 hPa at 25°C
Density of vapors	:	No information
Relative density	:	No information

Solubility (s)	:	in ethyl alcohol 1:10; in all respects in benzyl benzoate, diethyl phthalate, vegetable oils, in mineral oils with opalescence
Insoluble in	:	water ~5,043 g/l at 25°C (ECHA) glycerin, propylene glycol
Partition coefficient n-octanol/water	:	1,83 – 7,1 (25°C) (ECHA)
Organic carbon in soil/water (log KOC)	:	1,7 – 5,65 (ECHA)
Auto-ignition temperature	:	240°C at 1.026 hPa (ECHA)
Decomposition temperature	:	125°C at 1.013 hPa (ECHA)
Viscosity	:	No information
Explosive properties	:	No information
Oxidizing properties	:	None
Characterization of particles	:	not applicable (liquid)

Other information

Density	:	0,94 g/cm³ at 20°C (ECHA)
Refraction index at 20°C	:	1,5020 - 1.5130
Relative density at 20°C	:	0,906- 0,925
Temperature class (EU, ATEX compliant)	:	T3 Maximum permissible surface temperature of the equipment: 200°C

No other information available.

10. Stability and Reactivity

10.1. Reactivity

Advice	:	This material is not reactive under normal environmental conditions.
When heated	:	Vapors may form explosive mixtures with air.

10.2. Chemical stability

Advice	:	The material is resistant to temperature and pressure or in the usual environment and under the foreseeable conditions of storage and operation.

10.3. Possible hazardous reactions

Hazardous reactions	:	Reacts violently with: strong oxidizer When exposed to high temperatures, the substance may release hazardous decomposition products such as carbon monoxide, carbon dioxide, fumes and nitrogen oxide.

10.4. Conditions to avoid

Conditions to avoid	:	Keep away from heat, open flame, sunlight.
Thermal decomposition	:	Decomposition begins at temperatures above: 125 °C at 1.013

10.5. Incompatible materials

Materials to avoid	:	Alkali metals, ammonia, oxidizers, peroxides, strong inorganic acids.

10.6. Hazardous decomposition products

Hazardous decomposition products	:	Smoke and nitrogen oxide

11. Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Not to be classified as acutely toxic

oral LD50 >5.000 mg/kg rat ECHA
dermal LD50 >5.000 mg/kg rabbit ECHA

Acute toxicity of the mixture components

Isoeugenol
LD50 Oral - Rat - 1.560 mg/kg
Notes: Liver. Disordered liver functions. Nutritional and gross metabolism. Changes in: Reduction of body temperature (RTECS)
(RTECS) Notes: Behavioral: Coma.
Inhalation: No data available
Assessment of acute toxicity Dermal - 1,100.1 mg/kg (Expert decision)

Benzyl Salicylate
oral LD50 3.339 mg/kg rat ECHA
dermal LD50 >2.000 mg/kg rabbit ECHA

Geraniol
oral LD50 3.600 mg/kg rat ECHA
dermal LD50 >5.000 mg/kg rabbit ECHA

Linalool
oral LD50 2.790 mg/kg rat ECHA
dermal LD50 5.610 mg/kg rabbit ECHA

Benzyl Benzoate
oral LD50 >2.000 mg/kg rat ECHA

Limonene
oral LD50 >2.000 mg/kg rat ECHA

alpha-Pinene
Oral LD50 3.700 mg/kg (rat)

beta-Pinene
oral LD50 4.700 mg/kg rat TOXNET

Terpionolene 586-62-9
oral LD50 >2.000 mg/kg rat ECHA
dermal LD50 >2.000 mg/kg rat ECHA

Anethole 104-46-1
Oral Rat LD50 mg/kg: 2090.00
Oral Mouse LD50 mg/kg: 3050.00
Methyl Salicylate
dermal LD50 >5.000 mg/kg rat
oral LD50 887 mg/kg rat ECHA

Terpineol 8000-41-7
oral LD50 >2.000 mg/kg rat ECHA
dermal LD50 >2.000 mg/kg rat ECHA

Geranyl Acetate 105-87-3
Oral LD50 (rat): 6330 mg/kg; Oral LD50 (mouse): 8 gm/kg

Eugenyl Acetate 93-28-7
LD50 Oral - Rat - male and female - 1.670 mg/kg
Remarks: (ECHA)
Inhalation: No data available
LD50 Dermal - Rabbit - > 5.000 mg/kg (OECD Test Guideline 402)

Farnesol
LD50 Oral - Rat - 6.000 mg/kg
Notes: Behavioral: somnolence (generally suppressed activity).
Behavioral: Antipsychotic.
Inhalation: No data available
LD50 Dermal - Rat - male and female - > 15.000 mg/kg Notes: (ECHA)

Acetic acid, 140-11-4
oral LD50 >2.000 mg/kg rat ECHA

Benzyl benzoate
Oral LD50 >2.000 mg/kg rat ECHA

Benzyl salicylate
oral LD50 3.339 mg/kg rat ECHA
dermal LD50 >2.000 mg/kg rabbit ECHA

Corrosion/Skin irritation

Method	**:**	LD50 OECD Guideline 402
Types	**:**	rabbit
Routes of exposure	**:**	**oral**
Effective dose	**:**	**5610mg/kg**
Exposure period	**:**	**-**
Notes	:	Causes skin irritation.

Isoeugenol
Skin – Rabbit
Result: Skin irritation
Notes: (RTECS)

Geraniol
dermal LD50 >5.000 mg/kg rabbit ECHA. Causes skin irritation.

Linalool
Causes skin irritation.

Limonene
Causes skin irritation.

alpha-Pinene > 5.000 mg/kg (rabbit)
Causes skin irritation.

beta-Pinene
Causes skin irritation.

Beta-Caryophyllene
oral LD50 >5.000 mg/kg mouse ECHA

Terpineol 8000-41-7
Causes skin irritation.

Farnesol
Skin – Rabbit
Result: Skin irritation (OECD Test Guideline 404)

Serious damage/eye irritation

Benzyl Salicylate
Causes serious eye irritation.

Geraniol
Causes serious eye irritation.

Linalool
Causes serious eye irritation.

Terpineol 8000-41-7
Causes serious eye irritation.

Benzyl salicylate
Causes serious eye irritation.

Result : Not to be classified as seriously damaging to the eyes or irritating to the eyes.

Respiratory or skin sensitization

Isoeugenol
Maximization test - Guinea pig
Result: positive (OECD Test Guideline 406)
Notes: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)
Benzyl Salicylate
May cause an allergic skin reaction.

Geraniol
May cause an allergic skin reaction.

Linalool
May cause an allergic skin reaction.

Limonene
May cause an allergic skin reaction.

beta-Pinene
May cause an allergic skin reaction.

Terpionolene 586-62-9
May cause an allergic skin reaction.

Beta-Caryophyllene
Local lymph node assay (LLNA) - Guinea pig Result: positive (OECD Test Guideline 429)
May cause an allergic skin reaction.

Methyl Salicylate
May cause an allergic skin reaction.

Eugenyl Acetate 93-28-7
Local lymph node assay (LLNA) – Mouse (OECD Test Guideline 429)

Farnesol
Local lymph node assay (PLNA) - Mouse
Result: Causes allergies. (OECD Test Guideline 429)

Benzyl salicylate
May cause an allergic skin reaction.

Note : May cause an allergic skin reaction.

Ingestion

Note : May cause discomfort when swallowed.

Mutagenicity of germ cells

Note : CAS 5989-27-5: IARC Group 3; The agent cannot be classified as carcinogenic for human.

Carcinogenicity

Note : Not to be classified as carcinogenic.

Summary of the assessment of CMR properties

Methyl Salicylate Reproductive toxicity
It is supposed to harm the fetus.

STOT (specific target organ toxicity) — single exposure

Isoeugenol
May cause respiratory tract irritation

Note	:	Not to be classified as specific target organ toxicity (single exposure).

STOT (specific target organ toxicity) — repeated exposure

Note	:	Not to be classified as specific target organ toxicity (repeated exposure).

Aspiration hazard

beta-Pinene
May be fatal if swallowed and enters the respiratory tract.

Terpionolene 586-62-9
May be fatal if swallowed and enters the respiratory tract.

Note	:	May be fatal if swallowed and enters the respiratory tract

Information on possible routes of exposure

Note	:	Contact with the skin/scalp

Symptoms related to physical, chemical and toxicological characteristics

Inhalation	:	inhalation hazard
Eye contact	:	No data available.
In case of skin contact	:	Causes skin irritation. May cause allergic reactions, itching, local redness

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

Note	:	Repeated or prolonged contact with the substance may cause removal of the natural oil from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Splashes in the eyes may cause irritation and reversible damage.

Interactions		
Note	:	Toxicological characteristics are not comprehensively studied

Lack of specific data		
Note	:	Toxicological characteristics are not comprehensively studied

Mixtures		
Note	:	Toxicological characteristics are not comprehensively studied

Medical considerations		
Note	:	Individuals with a rash are referred to a skin specialist for a testing of allergic eczema.

Other information		
Note	:	The toxicological classification is made on the basis of the content information and available information.

11.2. Properties disturbing the functions of the endocrine system

Note : No information available

12. Ecological information

Note : Harmful to aquatic organisms with a long-lasting effect.

12.1. Toxicity

Product:

Acute (short-term) toxicity:

Fish

Biological species	:	Oncorhynchus mykiss
Exposure period	:	96 h
Value type	:	LC50
Value	:	27.8 mg/l
Method	:	OECD Guideline 203 /Acute toxicity test/

Isoeugenol
EC50 (Oncorhynchus mykiss (rainbow trout)): 5.1 mg/l
Exposure time: 96 h

Benzyl Salicylate
LC50 1,03 mg/l fish ECHA 96 h

Geraniol 106-24-1
LC50 22 mg/l fish 96 h
LC50(96 h, Danio rerio (zebra fish)) = 14 mg/l

Linalool 78-70-6
LC50 27,8 mg/l fish 96 h

Benzyl Benzoate
LC50 0,29 mg/l zebra fish 96 h

Limonene
LC50 0,46 mg/l fish ECHA 96 h

beta-Pinene
LC50 0,68 mg/l rainbow trout (Onco-rhynchus mykiss) ECHA 96 ч
semi-static test LC50 - Cyprinus carpio (Carp) - 0,557 mg/l - 96 h
(OECD Test Guideline 203)

Terpionolene 586-62-9
LC50 0,805 mg/l fish ECHA 96 h

Terpineol 8000-41-7
LC50 ≤80 mg/l fish ECHA 96 h

Geranyl acetate
static test LC50 - Leuciscus idus - 68,12 mg/l -96 h

Farnesol
LC50 - Pimephales promelas (A small fish, stickleback) - 1,43 mg/l- 96 h Notes: (ECHA)

Acetic acid, 140-11-4
LC50 4 mg/l fish ECHA 96 h

Benzyl benzoate
LC50 0,29 mg/l zebra fish 96 h

Benzyl salicylate
LC50 1,03 mg/l fish ECHA 96 h

Toxic for Daphnia and other aquatic invertebrates

Biological species	:	Daphnia magna
Exposure period	:	48 h
Value type	:	EC50
Value	:	59 mg/l
Method	:	OECD Guideline 202 / (Daphnia sp. Acute Immobilisation Test)/

Isoeugenol
EC50 - Daphnia (Water flea) - 7,5 mg/l - 48 h
EC50 - Daphnia (Water flea) - 4,8 mg/l - 48 h
Notes: (calculated)

Benzyl Salicylate
EC50 1,16 mg/l aquatic invertebrates ECHA 48 h

Geraniol 106-24-1
EC50 10,8 mg/l aquatic invertebrates 48 h
EC50(48 h, Daphnia magna (Water flea)) = 7.75 mg/l (OECD Test Guideline 202)

Linalool 78-70-6
EC50 59 mg/l aquatic invertebrates 48 h

Benzyl Benzoate
EC50 3,09 mg/l aquatic invertebrates ECHA 48 h

Limonene
EC50 0,307 mg/l aquatic invertebrates ECHA 48 h

beta-Pinene
EC50 1,09 mg/l daphnia magna ECHA 48 h
semi-static test EC50 - Daphnia magna (Daphnia) - 1,248 mg/l - 48 h
(OECD Test Guideline 202)

Terpionolene 586-62-9
EC50 0,634 mg/l aquatic invertebrates ECHA 48 h

Beta-Caryophyllene
static test EC50 - Daphnia magna Straus (Water flea) - > 0,17 mg/l
- 48 h (OECD Test Guideline 202)
EC50 >0,17 mg/l giant water flea ECHA 48 h

Geranyl acetate 105-87-3
EC50 14,1 mg/l aquatic invertebrates 48 h

Farnesol
semi-static test EC50 - Daphnia magna (Daphnia) - 0,568 mg/l -48 h (OECD Test Guideline 202)
semi-static test NOEC - Daphnia magna (Daphnia) - 0,532 mg/l -48 h (OECD Test Guideline 202)

Acetic acid, 140-11-4
EC50 25 mg/l aquatic invertebrates ECHA 24 h
EC50 17 mg/l giant water flea 48 h

Benzyl benzoate
EC50 3,09 mg/l aquatic invertebrates ECHA 48 h

Benzyl salicylate
EC50 1,16 mg/l aquatic invertebrates ECHA 48 h

Algae/aquatic plants

Isoeugenol
ErC50 (Skeletonema costatum (marine diatom)): 3.76 mg/l
Exposure time: 72 h
NOEC (Skeletonema costatum (marine diatom)): 1.7 mg/l
Exposure time: 72 h

Benzyl Salicylate
ErC50 1,29 mg/l algae ECHA 72 h

Geraniol 106-24-1
ErC50 13,1 mg/l algae 72 h
ErC50(72 h, Scenedesmus capricornutum (fresh water algae)) = 3.32 mg/l (OECD Test Guideline 201)

Linalool 78-70-6
ErC50 156,7 mg/l algae 96 h

Benzyl Benzoate
ErC50 0,475 mg/l algae 72 h

Limonene
ErC50 0,32 mg/l algae ECHA 72 h

beta-Pinene
ErC50 0,7 mg/l Pseudokirchneriella sub-capitata ECHA 72 ч
static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 0,826 mg/l - 72 h (OECD Test Guideline 201)

Terpionolene 586-62-9
ErC50 0,692 mg/l algae ECHA 72 h

Beta-Caryophyllene
ErC50 >0,033 mg/l algae ECHA 72 h

Methyl Salicylate Toxicity for reproduction
ErC50 27 mg/l algae ECHA 72 h

Terpineol 8000-41-7
ErC50 68 mg/l algae ECHA 72 h

Geranyl acetate 105-87-3
ErC50 3,72 mg/l algae 72 h

Farnesol
static test EC50 - Pseudokirchneriella subcapitata (green algae) - 1,49 mg/l - 72 h (OECD Test Guideline 201)
static test NOEC - Pseudokirchneriella subcapitata (green algae) - 0,083 mg/l - 72 h (OECD Test Guideline 201)

Acetic acid, 140-11-4
ErC50 110 mg/l algae ECHA 72 h

Benzyl benzoate
ErC50 0,475 mg/l algae ECHA 72 h

Benzyl salicylate
ErC50 1,29 mg/l algae ECHA 72 h

Bacteria

beta-Pinene
EC50 326 mg/l microorganisms ECHA 3 h
static test EC50 - Sewage sludge - 326 mg/l - 3 h (OECD Test Guideline 209)

Linalool
EC50 >100 mg/l microorganisms ECHA 30 min

Farnesol
static test EC50 - Activated sludge - > 1.000 mg/l - 3 h (OECD Test Guideline 209)

Chronic (long-term) toxicity:

Note : EC50 >1.000 mg/l
microorganisms ECHA 3 h

Fish

Limonene EC50 <0,67 mg/l fish ECHA 8 d

Shellfish

Isoeugenol
NOEC: 0.4 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water f lea)
Method: OECD Test Guideline 211

Benzyl Benzoate
LC50 11 mg/l aquatic invertebrates 24 h

Limonene
EC50 188 µg/l aquatic invertebrates ECHA 21 d

Benzyl benzoate
LC50 11 mg/l aquatic invertebrates ECHA 24 h

Benzyl ester of acetic acid 140-11-4
EC50 25 mg/l aquatic invertebrates 24 h

Algae/aquatic plants

Note : No data

Other organisms

Geraniol
EC50 70 mg/l microorganisms ECHA 30 min

Linalool 78-70-6
EC50 >100 mg/l microorganisms 30 min

Benzyl Benzoate
EC50 >10.000 mg/l microorganisms ECHA 3 h

Terpionolene 586-62-9
EC50 69 mg/l microorganisms ECHA 3 h

Methyl Salicylate Toxicity for reproduction
EC50 380 mg/l microorganisms ECHA 16 h

Acetic acid, 140-11-4
EC50 855 mg/l microorganisms ECHA 3 h

Benzyl benzoate
EC50 >10.000 mg/l microorganisms ECHA 3 h

12.2. Persistence and degradability

Product:

Abiotic degradation
Degradation of mixture components

Isoeugenol Exposure time 28 d
Result: 79 % - Easily biodegradable. (OECD Test Guideline 301F)

Linalool Abiotic degradation Time
oxygen depletion 40,9 % - 5 d

Geraniol 106-24-1
DOC deprivation 90 – 100 % 3 d ECHA

Farnesol аеробен - Exposure time 28 d
Result: 70 % - Easily biodegradable. (OECD Test Guideline 301F)

Geranyl Acetate 105-87-3
oxygen depletion >70 % 28 d ECHA

Methyl ester of benzoic acid 120-51-4
oxygen depletion 94 % 28 d ECHA

Benzyl ester of salicylic acid 118-58-1
oxygen depletion 93 % 28 d ECHA

Physical and photo-chemical elimination

Note : no data

Biochemical degradation

Biodegradation : The substance is directly biodegradable.
Degradation process oxygen depletion 86 % 28 d

12.3. Bioaccumulation

Product: The substance fulfills the criterion of being very bioaccumulative

Partition coefficient n-octanol/water (log Kow)

n-octanol/water (log KOW) 1,83 – 7,1 (25 °C) (ECHA)

Bioaccumulation of the mixture components

Isoeugenol log KOW 3,04
Benzyl Salicylate log KOW 4 (35°C) (ECHA)
Geraniol log KOW 2,6 (25°C) (ECHA)
Benzyl Benzoate log KOW 3,97 (25°C) (ECHA)
Limonene log KOW 4,38 (pH value: 7,2, 37°C) (ECHA)
Terpionolene log KOW 4,47
Linalool log KOW 2,9 (pH value: 7, 20°C) (ECHA)
Beta-Caryophyllene log KOW 6,23 (pH value: 7, 25°C) (ECHA)
Methyl Salicylate log KOW 2,55
Terpineol 3,33 n- octanol/water (log KOW) (TOXNET)
Acetic acid, 140-11-4 log KOW 1,96 (pH value: 7, 25°C) (ECHA)
Benzyl benzoate log KOW 3,97 (25 °C) (ECHA)
Benzyl salicylate n- octanol/water (log KOW) 4 (35°C) (ECHA)

Bioconcentration factor (BCF)

Notes : Not accumulated in the biological environment

12.4. Mobility in soil

Product: The normalized adsorption coefficient of organic carbon 1,7 – 5,65 (ECHA)

Known or predicted distribution in environmental components

Note : no data

Surface tension

Note : No data

Adsorption/desorption

Note : no data

12.5. Results of PBT and vPvB assessment

Note : no data

Product:

Results from PBT and vPvB assessment

Notes : No information available

12.6. Other adverse effects

Product:

Biochemical oxygen demand (BOD)

Value : No information available

Chemical oxygen demand (COD)

Value : No information available

Additional ecological information

Notes : Do not wash-off into surface waters

12.7. Additional information

Notes : Do not pour into drains or waterways

13. Disposal Considerations

13.1. Waste treatment methods

13.1.1. Disposal of product/packing

Codes/designation of waste according to LoW: -

Product	Disposal with general waste is permitted.
Contaminated packaging material	No data.

European Catalogue waste number	:	No waste code can be given to this product according to the European Waste Catalogue since it is related to its potential use. Waste code is given after consulting the regional waste Service.

13.1.2. Information on waste treatment

Waste management is carried out without endangering human health, without harming the environment, and in particular without risk to water, air, soil, plants or animals. Recycle or dispose of waste in accordance with applicable legislation.

13.1.3. Information on discharge in sewer systems

Do not pollute the soil or water with waste, do not throw waste into the environment.

13.1.4. Other recommendations for waste disposal

None

14. Information on transportation

Not applicable

14.1. UN proper shipping name

9006 (for vessels only)

14.2. UN proper shipping name

UN 9006, ENVIRONMENTALLY HAZARDOUS SUBSTANCE n.o.s., 9 (N2)

Chemical Name: Ylang Ylang Essential Oil Ext. I, II obtained from the flowers of Cananga odorata (Annonaceae) through steam distillation

Notes: Hazards: 9 + (N2)

Allocation to groups N1 to N3 according to 2.2.9.1.10.2 ADN: N2
Substances that meet the specified GHS criteria due to their environmental hazard: Chronic Category 2 or Chronic Category 3

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II to MARPOL and IBC Code"

IMDG — The product is not hazardous from the point of view of transport regulations

Road transport

ADR

The product is not hazardous from the point of view of transport regulations

RID

The product is not hazardous from the point of view of transport regulations

Waterway transport

ADN

The product is not hazardous from the point of view of transport regulations

Maritime transport

IMDG

The product is not hazardous from the point of view of transport regulations

Air transport

IATA/CAO The product is not hazardous from the point of view of transport regulations

15. Regulatory information

15.1. Legislation specific for the substance or mixture/safety, health and environmental regulations

The relevant European Union (EU) regulations

Restrictions according to REACH Annex XVII

Hazardous substances with restrictions (REACH, Annex XVII)				
Substance name	**Name in accordance with the inventory**	**CAS №**	**Restriction**	**№**
Ylang - Ylang oil	this product meets the criteria for classification according to Regulation No. 1272/2008/EC		R3	3
Ylang - Ylang oil	substances in tattoo inks and permanent makeup		R75	75

Legend

R3 1. Shall not be used in:
- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays;
- tricks and jokes;
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

2. Articles not complying with paragraph 1 shall not be placed on the market.

3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:
- can be used as fuel in decorative oil lamps for supply to the general public, and,
- present an aspiration hazard and are labelled with risk phrase H304.

4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).

5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:

a) lamp oils, labelled with risk phrase H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage";

b) grill lighter fluids, labelled with risk phrase H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage";

c) lamp oils and grill lighters, labelled with risk phrase H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010;

Legend

R75 1. Shall not be placed on the market in mixtures intended for tattooing, and mixtures, containing any of these substances, shall not be used for tattooing purposes after 4 January 2022, if the substance or substances in question are present in the following circumstances:

a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogenic, category 1A, 1B or 2, or mutagenic to germ cells, category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0.00005 weight percent;

b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as toxic for reproduction, category 1A, 1B or 2, the substance is present in the mixture at a concentration equal to or greater than 0.001 weight percent;

c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as a skin sensitiser, category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0.001 weight percent;
d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as causing skin corrosion, category 1, 1A, 1B or 1C, or skin irritation, category 2, the substance is present in the mixture in a concentration equal to or greater than:
i) 0.1 weight percent if the substance is used solely as a pH regulator;
ii) 0.01 weight percent in all other cases;
e) in the case of a substance classified in Annex II to Regulation (EC) No 1223/2009 (*1), the substance is present in the mixture in a concentration equal to or greater than 0.00005 weight percent;
f) in the case of a substance for which a condition is indicated for one or more of the following types in column g (Type of product, body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0.00005 weight percent:
i) „Rinse-off products"
ii) „Not to be used in products for application on mucous membranes";
iii) „Not to be used in eye products ";
g) in the case of a substance for which a condition is specified in column h (Maximum concentration in the ready-to-use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration or otherwise not meeting the condition specified in this column:
h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.
2. For the purposes of this entry the use of a mixture "for tattooing" means the injection or introduction of the mixture into the skin, mucous membrane or eyeball of a person by a process or procedure (including procedures commonly referred to as "permanent makeup", "cosmetic tattooing", "microblading" and "micropigmentation") aimed at achieving a mark or drawing on his body.
3. If a substance not listed in Appendix 13 falls within the scope of more than one of points a) to g) of paragraph 1, the most stringent concentration limit established in those points shall apply to that substance. If a substance listed in Appendix 13 also falls within the scope of one or more of points a) to g) of paragraph 1, the concentration limit set out in point h) of paragraph 1 applies to that substance.
4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:
a) Pigment Blue 15:3 (CI 74160, EO number 205-685-1, CAS number 147-14-8);
b) Pigment Green 7 (CI 74260, EO number 215-524-7, CAS number 1328-53-6).
5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or reclassify a substance so that it falls under points a), b), c) or (d) of paragraph 1 of this entry or falls under a different point from that in which it previously fell, and the date of application of that new or revised classification is after the date specified in paragraph 1 or, as the case may be, in paragraph 4 of this entry, then, for the purposes of applying this entry to the specified substance, that amendment shall be treated as coming into force on the date of application of that new or revised classification.
6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to add a substance to the list or to change its entry so that it falls under points e) , f) or g) of paragraph 1 of this entry, or fall in a different point from that in which it previously fell, and the amendment takes effect after the date specified in paragraph 1 or, as the case may be, paragraph 4 of this entry, then for the purposes of the application of this entry in relation to the specified substance, this amendment shall be treated as coming into force 18 months after the entry into force of the act which the said amendment is made by.
7. Suppliers that place on the market a mixture intended for tattooing shall ensure that, after 4 January 2022, the following information is indicated on the label of the mixture:
a) the text "Mixture intended for tattoos or permanent make-up";
b) a unique lot identification reference number;
c) the list of ingredients in accordance with the nomenclature established with the Glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common name of an ingredient, the IUPAC name. In the absence of a name or IUPAC name, the CAS number and the EC number. Ingredients are listed in descending order by weight or volume of ingredients at the time of formulation. "Ingredient" means any substance added during the formulation process and present in the mixture intended for tattooing. Impurities are not considered ingredients. If there is already a requirement for the name of a substance used as an

ingredient within the meaning of this entry to be indicated on the label in accordance with Regulation (EC) No 1272/2008, this ingredient is not necessary to be indicated in accordance with this regulation;
d) the additional text "pH regulator" for substances covered by paragraph 1, letter d), subsection i);
e) the text "Contains nickel. May cause allergic reactions.", if the mixture contains nickel below the limit concentration, specified in Appendix 13;
f) the text "Contains chromium (VI). May cause allergic reactions.", if the mixture contains chromium (VI) below the concentration limit, specified in Appendix 13;
g) instructions for safe use to the extent that until now, according to Regulation (EC) No 1272/2008, they were not required to be indicated on the label. The information is clearly visible, easy to read and marked to be indelible. The information shall be written in the official language(s) of the Member State(s) in which the mixture is placed on the market, unless otherwise provided in the Member State(s) concerned. Where this is required due to the size of the package, the information referred to in the first paragraph, with the exception of letter a), shall instead be included in the instructions for use. Before using a mixture for the purpose of tattooing, the person using the mixture shall provide the person undergoing the procedure with the information marked on the packaging or included in the instructions for use under this paragraph.
8. Mixtures which labels do not contain the text "Mixture intended for tattooing or permanent make-up" are not used for the purpose of tattooing.
9. This entry does not apply to substances which are gases at a temperature of 20 °C and a pressure of 101,3 kPa or generate a vapor pressure of more than 300 kPa at a temperature of 50 °C, with the exception of formaldehyde (CAS number 50-00 -0, EC number 200-001-8).
10. This entry does not apply to the placing on the market of a mixture intended for tattooing or to the use of a mixture for the purposes of tattooing when it is placed on the market exclusively as a medical device or an accessory to a medical device within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or accessory to a medical device in the same sense. When the placing on the market or use may not be exclusively as a medical device or accessory to a medical device, the requirements under Regulation (EU) 2017/745 and under this Regulation shall apply cumulatively.

List of substances subject to authorization (REACH, Annex XIV)/SVHC - list of candidate substances

Not listed.

Seveso Directive

2012/18/EC (Seveso III)			
№	Hazardous substance/hazard categories	Threshold quantity (in tonnes) for the application of the requirements at low and high risk potential	Notes
	Not determined		

Deco-Paint Directive

VOC content 100 %

940 g/l

Directive on industrial emissions

VOC content	100 %
VOC content	940 $^{g}/_{l}$

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

Not listed.

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

Not listed.

Water Framework Directive (WFD)

Not listed.

Other regulations / Laws : This safety data sheet is consistent with the Law on Protection from Harmful Effects of chemical Substances and Preparations and the Ordinance on the Classification, Packaging and Labelling

EU legislative acts : accordingly, EU regulations.

The following restrictions are applicable as per Annex XVII to Regulation (EC) No. 1907/2006 of REACH

3. Liquid substances or mixtures which are regarded as dangerous set out in Annex I to Regulation (EC) No 1272/2008	Cananga Odorata Flower Oil, Limonene, Isoeugenol, Linalool, Benzyl Salicylate, Benzyl Benzoate, Geraniol, Benzyl Acetate, Alpha-Pinene, Beta-Pinene, Terpinolene, Anethole, Beta-Caryophyllene, Terpineol, Methyl Salicylate, Geranyl Acetate, Eugenyl Acetate, Farnesol
3a. Substances or mixtures meeting the criteria for any of the following hazard classes or categories listed in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8, type A and B, 2.9 , 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15	Limonene, Alpha-Pinene, Beta-Pinene
3.b. Substances or mixtures meeting the criteria for any of the following hazard classes or categories listed in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development , 3.8 effects other than narcotic effects, 3.9 and 3.10	Cananga Odorata Flower Oil, Limonene, Isoeugenol, Linalool, Benzyl Salicylate, Benzyl Benzoate, Geraniol, Alpha-Pinene, Beta-Pinene, Terpinolene, Anethole, Beta-Caryophyllene, Terpineol, Methyl Salicylate, Geranyl Acetate, Eugenyl Acetate, Farnesol
3.c. Substances or mixtures meeting the criteria for any of the following hazard classes or categories listed in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1	Cananga Odorata Flower Oil, Limonene, Isoeugenol, Benzyl Salicylate, Benzyl Benzoate, Benzyl Acetate, Alpha-Pinene, Beta-Pinene, Terpinolene, Methyl Salicylate, Geranyl Acetate,

Permits or restrictions for use No information

Permissions Not required

Restrictions on use No information

Other EU legislative acts : According to the effective Regulations

Information according to Directive 1999/13/EC on the limitation of emissions of volatile organic compounds (VOC Guide)

Restrictions for use in working environment No information

Other legal acts, restrictions and prohibitive standards No information

15.2. Chemical Safety Assessment

No information.
The supplier has not prepared a chemical safety assessment for this substance/mixture.

16. Other information

Shelf life 30 months from the date of production.

Classification and procedure used to obtain the classification of mixtures according to Regulation (EC) No 1272/2008 [CLP]

Specifying the changes : Change of allergens and additional information about the product based on gas-chromatographic analysis and latest changes.

Abbreviations and acronyms:

Abbreviations	Description of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement on the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement on the International Carriage of Dangerous Goods by Road)
Aquatic Chronic 3	hazardous to the aquatic environment - chronic hazard
Asp Tox 1	Inhalation hazard
BCF	bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (prepares the most comprehensive list of chemicals)

CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (Classification, Labelling and Packaging)
CMR	Carcinogenic, mutagenic and toxic for reproduction (substance)
COD	Chemical oxygen demand
Corrosion)Damage	Eye irritation
DGR	Dangerous Goods Regulations (see IATA/DGR))
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals", developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
log KOW	n-octanol/water
MARPOL	International Convention on Prevention of Pollution from Ships (abbr. to "Marine Pollutant)
NLP	A substance that no longer has the properties of a polymer
PBT	Persistent, bioaccumulative and toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulation on Carriage of Dangerous Goods by Rail)
Corrosion/irritation 2	Skin irritation
Skin Sens.	skin sensitization
vPvB	very Persistent and very Bioaccumulative
EO № EU List	(EINECS, ELINCS и NLP-list) is the source for the seven-digit EC number, identifier of substances in the commercial network within the EU (European Union)
Index №	the index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
VOC	Volatile Organic Compounds

Main references and sources of data in the literature

- Regulation (EC) No 1907/2006 (REACH), as amended by (EU) 2020/878

- Regulation (EC) No 1272/2008 (CLP, EC GHS)

	List of relevant phrases (code and full text as defined in Section 2 and 3)
Code	**Text**
H304	May be fatal if swallowed and enters airways.

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.
EUH 208	Contains Isoeugenol, Benzyl Salicylate, Geraniol, Linalool, Benzyl Benzoate, Limonene, Alpha-Pinene, beta-Pinene, Terpinolene, Anethole, Beta-Caryophyllene, Methyl Salicylate, Terpineol, Geranyl acetate, Eugenyl Acetate, Farnesol. May cause an allergic reaction.
	List of safe handling instructions used in the safety document
P102	Keep out of reach of children
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/…
P331	Do NOT induce vomiting
P312	Call a POISON CENTER/doctor/… if you feel unwell.
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.
P362+P364	Remove contaminated clothing and wash before reuse
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P331	Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of water/…
P233	Keep container tightly closed
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up
P501	Dispose of contents / container at an approved disposal site in accordance with local and national regulations.

Other information :

In accordance with general product specification:
The information in this material safety data sheet is meant to represent typical data/analysis for this product and was obtained from current and reliable sources.
To the best of our knowledge, data is accurate and based on our knowledge and information, at the time of publication.
The information presented is intended only as a guidance for proper and safe use, handling, storage, transportation and disposal, and should not be considered a guarantee /expressed or implied/ or a quality specification with respect to the correctness or accuracy.
It is responsibility of the user to determine any safe conditions for use of this product, and to assume responsibility for any

loss, injury, damage or expenses resulting from the improper use of this product.
The information relates to the specific product only and is not valid when it used in combination with other materials or in any process, unless specified in the text.
The information provided does not constitute a delivery contract; regarding any specification or a given application, the buyer must determine for himself the requirements and recommendations for use of the product.

Disclaimer :

The data in this Safety Data Sheet correspond to the fair presentation of our experience at the time of printing. The information should give you basic guidelines for safe handling of this product, specified in the Safety Data Sheet, regarding its storage, processing, transport and disposal. Data cannot be assigned to other products.
If the product is mixed or processed with other materials, or if it is subject to processing, the data in this Safety Data Sheet cannot be assigned to the new material unless expressly stated otherwise.

END!

LIST OF 26 ALLERGEN SUBSTANCES / ANNEX III TO REGULATION (EC) NO 1223/2009

Customer: „ ALTEYA ORGANICS LLC, 1 Rose Field St., 6167, Village of Yagoda, Stara Zagora
Name of product: Organic Ylang – Ylang Oil – I quality (Cananga Odorata Flower Oil) – v.03 - 19.10.2023

	NAME OF SUBSTANCES	REMARK	CAS №	EINECS №	NATURAL %	SYNTHETIC %	TOTAL %
1	*AMYL CINNAMAL*	*H317; H411*	*122-40-7*	*204-541-5*	-	-	-
2	*AMYLCINNAMYL ALCOHOL*	*H315; H317*	*101-85-9*	*202-982-8*	-	-	-
3	*ANISE ALCOHOL*	*H302; H318 H317*	*105-13-5*	*203-273-6*	-	-	-
4	*BENZYL ALCOHOL*	*H332; H302*	*100-51-6*	*202-859-9*	-	-	-
5	*BENZYL BENZOATE*	*H302*	*120-51-4*	*204-402-9*	*8,1*	-	*8,1*
6	*BENZYL CINNAMATE*	*H317; H411*	*103-41-3*	*203-109-3*	-	-	-
7	*BENZYL SALICYLATE*	*H317; H411*	*118-58-1*	*204-262-9*	*22,3*	-	*22,3*
8	*CINNAMAL*	*H312; H315 H317*	*104-55-2*	*203-213-9*	-	-	-
9	*CINNAMYL ALCOHOL*	*H317*	*104-54-1*	*203-212-3*	-	-	-
10	*CITRAL*	*H315; H317*	*5392-40-5*	*226-394-6*	-	-	-
11	*CITRONELLOL*	*H315; H317 H411*	*106-22-9*	*203-375-0*	-	-	-
12	*COUMARIN*	*H302; H317*	*91-64-5*	*202-086-7*	-	-	-
13	*EUGENOL*	*H319; H317*	*97-53-0*	*202-589-1*	-	-	-
14	*FARNESOL*	*H315; H319*	*4602-84-0*	*225-004-1*	*0,3*	-	*0,3*
15	*ALPHA-ISOMETHYL IONONE*	*H412*	*127-51-5*	*204-846-3*	-	-	-
16	*GERANIOL*	*H315; H317*	*106-24-1*	*203-377-1*	*0,6*	-	*0,6*
17	*HEXYL CINNAMAL*	*H317;*	*101-86-0*	*202-983-3*	-	-	-
18	*HYDROXYCITRONELLAL*	*H319; H317*	*107-75-5*	*203-518-7*	-	-	-
19	*ISOEUGENOL*	*H312; H302 H319; H315 H317*	*97-54-1*	*202-590-7*	*0,8*	-	*0,8*
20	*BUTYLPHENYL METHYLPROPIONAL (LILIAL)*	*H317*	*80-54-6*	*201-289-8*	-	-	-
21	*LIMONENE*	*H226; H315 H317; H411*	*5989-27-5*	*227-813-5*	*0,3*	-	*0,3*
22	*LINALOOL*	*H315*	*78-70-6*	*201-134-4*	*12,3*	-	*12,3*
23	*HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE (LYRAL)*	*H317*	*31906-04-4*	*250-863-4*	-	-	-
24	*METHYL 2-OCTYNOATE*	*H302; H317*	*111-12-6*	*203-836-6*	-	-	-
25	*EVERNIA FURFURACEA LICHEN EXTRACT (TREEMOSS EXTRACT)*	*H317*	*90028-67-4*	*289-860-8*	-	-	-
26	*EVERNIA PRUNASTRI (OAK MOSS)*	*H317*	*90028-68-5*	*289-861-3*	-	-	-
27	*ALPHA PINENE*	*H226; H315; H317; H304 H400; H410*	*80-56-8*	*201-291-9*	*0,5*	-	*0,5*
28	*BETA PINENE*	*H226; H315; H317; H304 H400; H410*	*127-91-3*	*204-872-5*	*0,2*	-	*0,2*
29	*TERPINOLENE*	*H317; H304 H410*	*586-62-9*	*209-578-0*	*0,3*	-	*0,3*
30	*ANETHOLE*	*H302; H312 H315; H320; H332; H335*	*104-46-1*	*203-205-5*	*0,8*	-	*0,8*
31	*BETA-CARYOPHYLLENE*	*H317; H304*	*87-44-5*	*201-746-1*	*7,0*	-	*7,0*
32	*METHYL SALICYLATE*	*H302: H317;*	*119-36-8*	*204-317-7*	*1,0*	-	*1,0*

		H318; H361d H412					
33	*TERPINEOL*	*H315; H319*	*8000-41-7*	*232-268-1*	*0,5*	-	*0,5*
34	*GERANYL ACETATE*	*H315; 317, H412*	*105-87-3*	*203-341-5*	*6,3*	-	*6,3*
35	*EUGENYL ACETATE*	*H302; 317*	*93-28-7*	*202-235-6*	*0,4*	-	*0,4*

According to Regulation EO 1223/2009 is hereby amended as follows:
The presence of the substance must be indicated in the list of ingredients referred to inArticle 6(1)(g) when its concentration exceeds:— **0,001 %** in"**leave-on"**products, (and)— **0,01 %** in**"rinse-off"**products