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MATERIAL SAFETY DATA SHEET

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

Organic Palmarosa Oil

Version 02 | Date of creation: 09.07.2019
Supersedes the version from: 09.07.2019 | Date of new version: 10.01.2024

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

1.1. Product Identifiers

Product name	:	Organic Palmarosa Oil
Substance name (INCI)	:	CYMBOPOGON MARTINI OIL
REACH Registration No	:	-
CAS No	:	84649-81-0
EO No	:	283-461-2
ISO	:	-
Biological origin	:	Cymbopogon Martini is a volatile oil obtained from the fresh or dry above-ground organs of the grass Cymbopogon (Andropogon) martini (Roxburgh.) W.Watson (Stapf.) var. motia, from the Poaceae family, by steam distillation of palmarosa, Cymbopogon martini, Gramineae.

1.2. Relevant identified 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	:	Causes serious eye 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 GHS				
Chapter	**Subsection**	**Class of hazard**	**Class of hazard and category of hazard**	**Hazard statements**
3.2	Skin	Skin irritation	Corrosion/irritation	H315
3.4	Sens.	Skin sensitization	(Skin sens 1)	H317
3.3	Eye	Eye irritation	(Corrosion)Damage/ Irritation. 1	H318
4.1	Chronic	Hazardous for aquatic environment - chronic hazard	Aquatic Chronic 4	H412

2.1.2. **Additional information:**
For full text of hazard statements and EC specific hazard statements: see SECTION 16.

2.2. Label Elements

Designation according Regulation (EC) No 1272/2008 [CLP]
Hazard pictograms

GHS05 GHS07

Signal word : Hazardous

Hazard statements :
H315 Causes skin irritation
H317 May cause allergic skin reaction
H318 Causes serious eye damage

Hazard statements concerning :
H412 Harmful for aquatic life with long-lasting effect.
EUH208 Contains: Citral, Geraniol, Limonene, Linalool,

environment Beta-Pinene, Beta-Caryophyllene, Geranyl Acetate, Terpinolene, Linalyl Acetate, Alpha-Terpineol, Citronellol, Farnesol, beta-Myrcene, Geranyl butyrate, Cis-Nerolidol, Geranyl formate, 6-Methyl-5-hepten-2-one, Beta - Ocimene.
May cause allergic reaction.

Safety recommendations

Safety recommendations - General	P101	If medical advice is needed, have product packaging or label at hand.
	P102	Keep out of reach of children
Safety recommendations - Prevention	P262	Avoid contact with eyes, skin and clothing.
	P273	Avoid release to the environment
	P280	Use protective gloves/protective goggles.
Safety recommendations - As a reaction	P305+P351+ P338	If in the eyes: Rinse carefully with water for several minutes. Remove contact lenses if there are such and if possible.
	P337+P313	If eye irritation persists: Get medical advice/attention.
	P302+P352	IF ON SKIN: Wash thoroughly with soap and water.
Safety recommendations - At disposal:	P501	Dispose of contents/container in an approved place and in compliance with the local and national regulations.

2.3. Other hazards

This material is flammable, but will not ignite easily.

Results of PBT and vPvB assessment

According to the assessment results, the substance is not PBT or vPvB.

3. Composition/information on ingredients

3.1. Substances/ Mixture

INGRIDIENT	*IDENTIFIERS*	*%*	*CLASSIFICATION*
CYMBOPOGON MARTINI OIL	*EINECS NO: 283-461-2* *CAS NO: 84649-81-0*	*100,0*	 *DANGER*

			Skin Irrit. 2 – H315 *Skin Sens. 1B H317* *Eye.irrit, Cat. 1; H318* *Aquatic Chronic 4, H412*
GERANIOL	*EINECS NO: 203-377-1* *CAS NO: 106-24-1*	*75,0 – 85,0*	*Skin Irrit. 2 – H315* *Eye Dam. 1 - H318* *Skin Sens. 1 – H317*
GERANYL ACETATE	*EINECS NO: 203-341-5* *CAS NO: 105-87-3*	*5,0 -15,0*	*Skin Irrit. Cat.2, H315* *Eye .irrit, Cat. 2A; H319* *Aquatic Chronic 4, H412*
LINALOOL	*EINECS NO: 201-134-4* *CAS NO: 78-70-6*	*1,0 – 4,0*	*Eye Irrit. 2A (H319)* *Skin Sens. 1B (H317)* *Skin Irrit. 2 (H315)* *Aquatic Chronic 2 / H411*
BETA-CARYOPHYLLENE/ *(−)-trans-Caryophyllene*	*EINECS NO: 202-795-1* *CAS NO: 99-86-5*	*0,1 – 3,0*	*Asp. Tox. 1 – H304* *Skin Sens. 1 – H317*
CITRAL	*EINECS NO: 226-394-6* *CAS NO: 5392-40-5*	*0,1 – 1,5*	*Skin Irrit. 2, H315* *Eye .irrit, Cat. 2A; H319* *Skin Sens. 1 – H317*
LIMONENE	*EINECS NO: 227-813-5* *CAS NO: 5989-27-5*	*0,1 – 1,5*	*Flam. Liq. 3 – H226* *Skin Irrit. 2 – H315* *Skin Sens. 1 – H317* *Asp. Tox. 1 - H304* *Aquatic Acute 1 – H400* *Aquatic Chronic 3 – H412*
TERPINOLENE	*EINECS NO 209-578-0* *CAS NO: 586-62-9*	*0,001 – 1,0*	*Skin Sens. 1B / H317* *Asp. Tox. 1 / H304* *Aquatic Acute 1 / H400* *Aquatic Chronic 1 / H410*
LINALYL ACETATE	*EINECS NO: 204-116-4* *CAS NO: 115-95-7*	*0,1 – 1,0*	*Eye Irrit. 2A (H319)* *Skin Sens. 1B (H317)* *Skin Irrit. 2 (H315)*
ALPHA - TERPINEOL	*EINECS NO: 202-680-6* *CAS NO: 98-55-5*	*0,1 – 1,0*	*Skin Irrit. 2 / H315* *Eye Irrit. 2 / H319*
CITRONELLOL	*EINECS NO: 203-375-0 / 247-737-6 / 231-415-7 / 214-250-5* *CAS NO: 106-22-9 / 26489-01-0 / 7540-51-4 / 1117-61-9*	*0,001 – 0.1*	*Skin irrit, Cat. 2, H315* *Skin sens, Cat. 1, H317* *Aquatic Chronic 2,H411*
FARNESOL	*EINECS NO: 226-004-1* *CAS NO: 4602-84-0*	*0,05 – 1,0*	*Skin Irrit. 2 – H315* *Skin Sens. Cat.1, H317* *Eye Irrit. 2A H319*
b-PINENE	*EINECS NO: 204-872-5* *CAS NO: 127-91-3*	*0,001 – 0,5*	*Flam. Liq. 3, H226* *Asp. Tox. 1, H304* *Skin Irrit. 2, H315* *Skin Sens. 1, H317*

			Aquatic Acute 1, H400
GERANYL BUTYRATE	*EINECS NO: 203-381-3* *CAS NO: 106-29-6*	*< 0,2*	*STOT SE 3; H335*
CIS-NEROLIDOL	*EINECS NO: 230-597-5* *CAS NO: 7212-44-4*	*< 0,2*	*Eye Irrit. 2A H319* *Skin Sens. Cat.1, H317* *Aquatic Acute 1, H400* *Aquatic Chronic 1 / H410*
GERANYL FORMATE	*EINECS NO: 203-339-4* *CAS NO: 105-86-2*	*< 0,2*	*Skin Sens. 1B, H317*
6-Methyl-5-hepten-2-one	*EINECS NO: 203-816-7* *CAS NO: 110-93-0*	*< 0,2*	*Flam. Liq. 3, H226*
BETA - MYRCENE	*EINECS NO: 204-622-5* *CAS NO: 123-35-3*	*< 0,2*	*Flam. Liq. 3 - H226* *Asp. Tox. 1, H304* *Skin Irrit. 2 – H315* *Eye Irrit. 2 - H319*
BETA - OCIMENE	*EINECS NO: 237-641-2* *CAS NO: 13877-91-3*	*< 0,2*	*Flam. Liq. 3 - H226*

4. First Aid Measures

4.1. Description of first aid measures

- General notes : In case of unwellness, seek medical attention (if possible, show the label). Remove contaminated clothing. In case of

- Following inhalation : Provide fresh air. In all cases of or in the presence of symptoms, seek medical attention.

- Following skin contact : Remove contaminated clothing. Flush skin with water/take a shower. After skin contact, wash immediately with plenty of water. In case of skin reactions, consult a doctor. In the event of skin irritation, seek medical attention.

- Following eye contact : In case of contact with eyes, rinse immediately with open eyelids for 10 to 15 minutes under running water and seek an ophthalmologist.

- Following ingestion : Rinse the mouth. Call a doctor if you feel unwell.

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

Notes : Risk of blindness. Risk of serious eye damage. Irritation. Allergic reactions

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	:	Coordinate fire-fighting measures with the surrounding area. Water splashes, dry powder for extinguishing, BC-powder, carbon dioxide (CO_2)
Unsuitable extinguishing media	:	Water jet.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	:	Combustible.
Hazardous products of combustion	:	Carbon monoxide (CO), carbon dioxide (CO_2). Burning may release poisonous gases containing carbon monoxide.

5.3. Advice for firefighters:

Special protective equipment for firefighters	:	Do not inhale smoke in case of fire and/or explosion. 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

Personal precautionary measures, protective equipment and emergency procedures	:	Avoid product contact with skin, eyes and clothing. Do not

inhale the vapour/aerosol.

6.1.2. **For the persons responsible for emergencies**

Wear personal protective equipment. Provide sufficient ventilation. Do not allow unauthorised persons. Avoid sources of ignition.

6.2. Environmental precautions

Environmental precautions	:	Protect against contamination of drains, surface and ground water.

6.3. Methods and materials for containment and cleaning up

6.3.1. For containment	:	Covering of drains. Limit with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in waste disposal drums.
6.3.2. For cleanup	:	Should be mechanically absorbed with a binding material (sand, diatomaceous earth, acid binder or universal). Collect in suitable containers.
6.3.3. Other information	:	Wear protective clothing as described in Section 8 of this Material Safety Data Sheet. Place in appropriate containers for disposal. Ventilate the affected area.

6.4. Reference to other sections

Hazardous combustion products: see Section 5. Personal protective equipment: see Section 8. Incompatible materials: see Section 10. Waste disposal: see Section 13.

7. Handling and Storage

7.1. Precautions for safe handling

Precautions	:	Work in accordance with good hygiene and safety practices. Provide adequate ventilation.
Fire-fighting measures	:	Keep away from sources of ignition. Do not smoke when using the product.
Measures to avoid transformation into aerosols and powder	:	Provide adequate ventilation of the work area.

Environmental precautionary: measures		Do not allow to enter drains or water. In case of infiltration into waters or sewers, inform the competent authorities.
Advice on general occupational hygiene	:	Wash your hands before breaks and at the end of the working day. Avoid eye and skin contact. Contaminated clothes and shoes should be cleaned before re-use. Keep away from drinks and food for humans and animals.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	:	Keep the container tightly closed. Store the product in the original container, tightly closed, in a dry, cool place, away from potential sources of ignition and protected from light. Observe the guidelines for combined storage.
Packing materials	:	Use packing materials preserving the integrity of the product.
Requirements to storage areas or containers	:	Store in cold premises and in full containers. Store in stainless steel drums preferably under an inert atmosphere (nitrogen).
Storage class	:	No information
Recommendations for protection from fire and explosions	:	None known
Recommendations for primary storage	:	No additional data available.
General rules are recommended as per		**БДС ISO 210:2023**

7.3. Specific end use(s)

Recommendations	:	No data available.
Solutions specific to the industry sector	:	No data available.

Specific use(s)	:	Used in perfumery and cosmetics by itself or as a formulation constituent, a part of 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

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

Other occupational exposure limits

Information on monitoring procedures

Relevant DNEL - mixture components

Citral

DNEL 9 mg/m³ human, inhalation industrial worker chronic - systemic effects
DNEL 1.7 mg/kg bw/day human, dermal industrial worker chronic - systemic effects
DNEL 140 µg/cm² human, dermal industrial worker chronic - local 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

Limonene

D-(+)-limonene 5989-27-5 DNEL 66.7 mg/m³ human, inhalation industrial worker chronic – systemic effects
D-(+)-limonene 5989-27-5 DNEL 9.5 mg/kg bw/day human, dermal industrial worker chronic - systemic effects

Linalool 78-70-6 DNEL 2.8 mg/m³ human, inhalation industrial worker chronic - systemic effects
Linalool 78-70-6 DNEL 16.5 mg/m³ human, inhalation industrial worker acute - systemic effects
Linalool 78-70-6 DNEL 2.5 mg/kg bw/day human, dermal industrial worker chronic - systemic effects
Linalool 78-70-6 DNEL 5 mg/kg bw/day human, dermal industrial worker acute - systemic effects

beta-Pinene

DNEL 5.69 mg/m³ human, inhalation 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

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 linalyl ester 115-95-7 DNEL 2.75 mg/m³ human, inhalation industrial worker chronic - systemic effects
Acetic acid linalyl ester 115-95-7 DNEL 2.5 mg/kg bw/day human, dermal industrial worker chronic - systemic effects
Acetic acid linalyl ester 115-95-7 DNEL 236.2 µg/cm² human, dermal industrial worker chronic - local effects
Acetic acid linalyl ester 115-95-7 DNEL 236.2 µg/cm² human, dermal industrial worker acute - local effects

(±)-ß-Citronellol 106-22-9
(±)-ß-Citronellol 106-22-9 DNEL 161.6 mg/m³ human, inhalatory worker (industry) chronic - systemic effects
(±)-ß-Citronellol 106-22-9 DNEL 10 mg/m³ human, inhalatory worker (industry) chronic - local effects
(±)-ß-Citronellol 106-22-9 DNEL 10 mg/m³ human, inhalatory worker (industry) acute - local effects
(±)-ß-Citronellol 106-22-9 DNEL 327.4 mg/kg bw/day human, dermal worker (industry) chronic - systemic effects
(±)-ß-Citronellol 106-22-9 DNEL 2.950 µg/cm² human, dermal worker (industry) acute - local effects

Farnesol
Farnesol 4602-84-0 DNEL 1.85 mg/m³ human, inhalation industrial worker chronic - systemic effects
Farnesol 4602-84-0 DNEL 1.32 mg/kg bw/day human, dermal industrial worker chronic - systemic effects

Relevant PNEC- mixture components

Geraniol
PNEC 0.011 mg/l aquatic organisms freshwater short-term (instant)
PNEC 0.001 mg/l aquatic organisms marine short-term (instant)
PNEC 0.7 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
PNEC 0.115 mg/kg aquatic organisms sediments freshwater short-term (instant)
PNEC 0.011 mg/kg aquatic organisms marine sediments short-term (instant)
PNEC 0.017 mg/kg terrestrial organisms soil short-term (instant)

Citral
PNEC 0.007 mg/l aquatic organisms freshwater short-term (instant)
PNEC 0.001 mg/l aquatic organisms marine short-term (instant)
PNEC 1.6 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
PNEC 0.125 mg/kg aquatic organisms sediments freshwater short-term (instant)
PNEC 0.013 mg/kg aquatic organisms marine sediments short-term (instant)
PNEC 0.021 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 short-term (instant)

PNEC 1.8 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
PNEC 3.85 mg/kg aquatic organisms sediments freshwater short-term (instant)
PNEC 0.385 mg/kg aquatic organisms marine sediments short-term (instant)
PNEC 0.763 mg/kg terrestrial organisms soil short-term (instant)

Linalool 78-70-6 PNEC 0.2 mg/l aquatic organisms freshwater short-term (instant)
Linalool 78-70-6 PNEC 0.02 mg/l aquatic organisms marine water short-term (instant)
Linalool 78-70-6 PNEC 10 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
Linalool 78-70-6 PNEC 2.22 mg/kg aquatic organisms freshwater sediment short-term (instant)
Linalool 78-70-6 PNEC 0.222 mg/kg aquatic organisms marine sediment short-term (instant)
Linalool 78-70-6 PNEC0.327 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 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 sediments freshwater short-term (single instance)
PNEC 0.034 mg/kg aquatic organisms marine sediments short-term (single instance)
PNEC 0.067 mg/kg terrestrial organisms soil short-term (single instance)

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)

Acetic acid linalyl ester 115-95-7 PNEC 0.011 mg/l aquatic organisms freshwater short-term (instant)
Acetic acid linalyl ester 115-95-7 PNEC 0.001 mg/l aquatic organisms marine short-term (instant)
Acetic acid linalyl ester 115-95-7 PNEC 1 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
Acetic acid linalyl ester 115-95-7 PNEC 0.609 mg/kg aquatic organisms sediments freshwater short-term (instant)
Acetic acid linalyl ester 115-95-7 PNEC 0.061 mg/kg aquatic organisms marine sediments short-term (instant)
Acetic acid linalyl ester 115-95-7 PNEC 0.115 mg/kg terrestrial organisms soil short-term (instant)

α-Terpineol
PNEC 68 µg/l aquatic organisms freshwater short-term (single instance)
PNEC 6.8 µg/l aquatic organisms marine short-term (single instance)
PNEC 2.6 mg/l aquatic organisms sewage treatment plant (STP) short-term (single instance)
PNEC 1.85 mg/kg aquatic organisms sediments freshwater short-term (single instance)

PNEC 0.185 mg/kg aquatic organisms marine sediments short-term (single instance)
PNEC 0.329 mg/kg terrestrial organisms soil short-term (single instance)

(±)-ß-Citronellol 106-22-9
(±)-ß-Citronellol 106-22-9 PNEC 0.002 mg/l aquatic organisms freshwater short-term (single instance)
(±)-ß-Citronellol 106-22-9 PNEC 0 mg/l aquatic organisms marine water short-term (single instance)
(±)-ß-Citronellol 106-22-9 PNEC 580 mg/l aquatic organisms sewage treatment plant (STP) short-term (single instance)
(±)-ß-Citronellol 106-22-9 PNEC 0.026 mg/kg aquatic organisms freshwater sediment short-term (single instance)
(±)-ß-Citronellol 106-22-9 PNEC 0.003 mg/kg aquatic organisms marine sediment short-term (single instance)
(±)-ß-Citronellol 106-22-9 PNEC 0.004 mg/kg terrestrial organisms soil short-term (single instance)

Farnesol
Farnesol 4602-84-0 PNEC 0.568 µg/l aquatic organisms freshwater short-term (instant)
Farnesol 4602-84-0 PNEC 0.057 µg/l aquatic organisms marine short-term (instant)
Farnesol 4602-84-0 PNEC 10 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
Farnesol 4602-84-0 PNEC 87.19 µg/kg aquatic organisms sediments freshwater short-term (instant)
Farnesol 4602-84-0 PNEC 8.72 µg/kg aquatic organisms marine sediments short-term (instant)
Farnesol 4602-84-0 PNEC 17.07 µg/kg terrestrial organisms soil short-term (instant)

8.2. Exposition controls

Engineering measures

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

The description of the appropriate exposition control measures refer to the specified in subsection 1.2 identified uses of the substance or the mixture.
This information is sufficient to make it possible for the employer, when appropriate, to assess the risk caused by the presence of the substance or the mixture for the health and safety of employees according articles 4—6 of Directive 98/24/EC and articles 3—5 of Directive 2004/37/EC.
This information supplements the information presented in Section 7. Provide adequate ventilation. The good practices of personal hygiene are always recommended, especially when handling chemicals/oils.

8.2.1. Personal protective equipment:

8.2.1.1. Eyes and face protection: Use safety masks with side protection.

Use safety goggles designed to protect against liquid splashes. Before work, wear safety goggles with a protective side in accordance with the EN166 standard. In case of great danger, protect the face with a face shield. Contact lens wearers should wear safety goggles during work when may be exposed to irritating vapours. Provide eyewash rooms in facilities where the product is continuously handled.

8.2.1.2. 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 to check the chemical resistance of the protective gloves, mentioned above, 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 the corresponding breakthrough time being doubled / halved. The data refer to the pure substance only. When transferred to mixtures of substances, they can only be considered as a guide.

- *type of material NBR (Nitrile rubber)*
- *material thickness: > 0.7 mm*
- *glove material wear: > 480 minutes (penetration: level 6)*
- *Splash protection - Safety gloves*
- *type of material: NBR (Nitrile rubber)*
- *material thickness: > 0.11 mm*
- *glove material wear: > 10 minutes (penetration: level 1)*

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

8.2.1.3. Respiratory tract protection : Respiratory protection is required in case of: Formation of aerosol mist. Type: A (against organic gases and vapours with boiling point > 65°C, color code: Brown). Type: ABEK

		(combined gas and vapour filters, colour code: Brown/Grey/Yellow/Green).
8.2.1.4. Thermal hazards	:	Unknown
8.2.3.Environmental exposure controls	:	Protect against contamination of drains, surface water and ground water.
Measures related to substance/ mixture required to avoid exposition	:	No data available.
Training measures related to the avoiding of exposition	:	Staff training as per internal schedule.
Organization measures to avoid exposition	:	Staff training
Technical measures to avoid exposition	:	Staff training

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance/type	:	Transparent and easily mobile liquid
Color	:	Light yellow to yellowish brown
Odor	:	sweet as a rose and fresh smell with a grassy note and fruity nuance
Odor threshold	:	No current information
Acid value, KOH/g	:	max. up to 1.0
Ester value, mgKOH/g	:	7 – 36
CA (as geraniol), %	:	74 - 94
Acetyl value, KOH/g	:	260-280
OA (as geraniol), %	:	88 – 95

Solubility in P_{70}% ethanol	:	up to 1:2
pH	:	Not determined
Melting point/ freezing point	:	Not determined
Boiling point or initial boiling point and interval boiling point	:	Not determined
Flammability	:	This material is combustible but will not ignite easily
Upper explosion limit	:	No data available
Lower explosion limit	:	No data available
Flash point	:	90°C
Autoignition temperature	:	Not determined
Decomposition temperature	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid subst., gas)	:	Not applicable
Vapor pressure at 20°C	:	No data available
Solubility(ies)	:	Alcohol and in oils
Insoluble in	:	Water
Partition coefficient n-octanol/water, Log/Pow	:	No data available
Explosivity	:	No data available
Oxidizing properties	:	No data available

Other information

Refractive index at n^{20}/d	:	0.880 – 0.894 (20°C)
Relative density at d^{20}	:	1.4710 – 1.4780 g/cm³ at 20°C
Optical rotation 20°C	:	- 2.0° up to + 4.0°

10. Stability and Reactivity

10.1. Reactivity

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

10.2. Chemical stability

Note	:	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.

10.4. Conditions to avoid

Conditions to avoid	:	Avoid heat, flames and other ignition sources.
Thermal decomposition	:	No data available.

10.5. Incompatible materials

Materials to avoid	:	Alkalis

10.6. Hazardous decomposition products

Hazardous decomposition products	:	In case of fire, hazardous decomposition products may be generated, see Section 5

11. Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Note : Not to be classified as acutely toxic.

CYMBOPOGON MARTINI OIL
oral LD50 >5.000 mg/kg rat
dermal LD50 >5.000 mg/kg rabbit

Acute toxicity of mixture components

Citral
Oral LD50 6.800 mg/kg rat ECHA
Dermal LD50 >2.000 mg/kg rat ECHA

GERANIOL (CAS: 106-24-1)
Oral: LD50 = 4200 mg/kg

D-Limonene (Cas: 5989-27-5)
Oral Route: Ld50= 4.400 – 5.10mg/Kg
Species : Rat

Linalool 78-70-6 oral LD50 2.790 mg/kg rat
Linalool 78-70-6 dermal LD50 5.610 mg/kg rabbit

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

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

Terpinolene
oral LD50 >2.000 mg/kg rat ECHA
dermal LD50 >2.000 mg/kg rat ECHA

Acetic acid linalyl ester 115-95-7oral LD50 > 9.000 mg/kg rat
Acetic acid linalyl ester 115-95-7 dermal LD50 > 5.000 mg/kg rabbit

Alpha-Terpineol
oral LD50 4.300 mg/kg rat ECHA
dermal LD50 >2.000 mg/kg rat ECHA

CITRONELLOL (CAS: 106-22-9)
Oral: LD50 = 3450 mg/kg
Dermal: LD50 = 2650 mg/kg
Farnesol
Farnesol 4602-84-0 oral LD50 >5.000 mg/kg rat
Farnesol 4602-84-0 dermal LD50 >15.000 mg/kg rat
Cis-Nerolidol
LD50 Oral - Rat - male and female - > 2.610 mg/kg
(OECD Test Guideline 401)
Inhalation: No information
LD50 Skin - Rabbit - > 5.000 mg/kg
Notes: (ECHA)

Geranyl butyrate
LD50 Oral - Rat - 10.660 mg/kg

Notes: Behavioral: somnolence (generally suppressed activity).
Behavioral: coma.
Inhalation: No information
LD50 Skin - Rabbit - 5.000 mg/kg

6-Methyl-5-hepten-2-one
LD50 Oral - Rat - male and female - 3.750 mg/kg
Notes: (ECHA)
Inhalation: No information
LD50 Skin - Rat - > 5.000 mg/kg
Notes: (ECHA)

beta-Myrcene
LD50 Oral - Rat - male - > 3.380 mg/kg, Notes: (ECHA)
Inhalation: No information
LD50 Skin - Rabbit - > 5.000 mg/kg (OECD Test Guideline 402)

Corrosion/Skin irritation

Citral
Causes skin irritation.

GERANIOL (CAS: 106-24-1)
LD50 (Rabbit) = > 5.000 mg/kg

D-Limonene (Cas: 5989-27-5)
Oral Route: Ld50 = > 5000mg/Kg
Species : Rabbit

D-(+)-limonene 5989-27-5 oral LD50 >2.000 mg/kg rat

D-Limonene (Cas: 5989-27-5)
Oral Route: Ld50= > 5.600 - 6000mg/Kg
Species : Mouse
Linalool (Cas: 78-70-6)
Dermal Route: Ld50=5610mg/Kg
Species: Rabbit, Oecdguideline 402(Acute Dermal Toxicity)

Linalool (Cas:78-70-6)
Irritation: Average Score =1.85
Effect Observed: Erythema Score
Species: Rabbit
Duration Of Exposure: 24hoecdguideline 404(Acute Dermal Irritation /Corrosion)

Alpha-Terpineol
Causes skin irritation.

Citronellol
Skin - Rabbit
Result: irritating - 4 h
(OECD Test Guideline 404)

Cis-Nerolidol
Eye – Rabbit
Result: Eye irritation (OECD Test Guideline 405)

beta-Myrcene
Skin - in vitro skin irritation test
Result: Irritating to skin. (EPISKIN Human Skin Test Model)

Notes : Causes skin irritation.

Serious damage/eye irritation

Geraniol
Causes serious eye damage.

D-Limonene (Cas: 5989-27-5)
Oral Route: Ld50= > 5000mg/Kg
Species : Rabbit

D-Limonene (Cas: 5989-27-5)
Oral Route: Ld50= > 5.600 - 6000mg/Kg
Species : Mouse

Alpha-Terpineol
Causes serious eye irritation

Citronellol
Eye – Rabbit
Result: Eye irritation (OECD Test Guideline 405)

beta-Myrcene
Eye - Rabbit
Result: Irritating to eyes.
(OECD Test Guideline 405)

Result : Causes serious eye damage.

Respiratory or skin sensitization

Citral
May cause allergic skin reaction.

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

Terpinolene
May cause allergic skin reaction.

Citronellol
Local lymph node assay (LLNA) - Mouse
Result: positive (OECD Test Guideline 429)

Cis-Nerolidol
Examination of local lymph nodes (PLNA) - Mouse
Result: causes allergy.
(OECD Test Guideline 429)

Note : May cause allergic skin reaction.

Ingestion

Note : No data available

Mutagenicity of germ cells

Note : No data available

Carcinogenicity

Note : CAS 5989-27-5: IARC: 3-Group3: The agent cannot be classified as to its carcinogenicity to humans.

Summary of the assessment of CMR properties

Note : No data available

STOT (specific target organ toxicity) — single exposure

Note : Do not classify as specific target organ toxicity (single exposure).

STOT (specific target organ toxicity) — repeated exposure

Note : Do not classify as specific target organ toxicity (repeated exposure).

Aspiration hazard

Beta-Caryophyllene
Can be fatal if swallowed and enters the respiratory tract.

Terpinolene
Can be fatal if swallowed and enters the respiratory tract.

Note : Not to be classified as a hazard if inhaled.

Phototoxicity

Note : No data available

Information on possible routes of exposure

- If swallowed – no data available
- If eye contact - Causes serious eye damage, risk of blindness
- If inhaled - no data available
- If skin contact - Causes skin irritation, May cause allergic reactions, itching, local redness.

Symptoms related to physical, chemical and toxicological characteristics

Note : Toxicological characteristics are not comprehensively studied

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

Note : Toxicological characteristics are not comprehensively studied

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 consideration

Note	:	The persons having rash are directed to dermal specialist to be examined for allergic eczema.

Other information

Note	:	The toxicology information is based on the information concerning the content and the available information.

11.2. Properties disturbing the functions of the endocrine system

Note	:	Not listed

11.3. Information on other hazards

Note	:	No additional data available.

12. Ecological information

Note	:	No additional data available.

12.1. Toxicity

Product: Not to be classified as hazardous to the aquatic environment

Acute (short-term) toxicity of mixture components:

Fish

Citral
LC50 6,78 mg/l fish ECHA 96 h

Geraniol
LC50 22 mg/l fish ECHA 96 h
LC50 (96 h, Danio rerio (zebra fish)) = 14 mg/l

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

Linalool
LC50 27.8 mg/l fish ECHA 96 h

ß-pinene 18172-67-3 LC50 0.68 mg/l Canadian trout (Oncorhynchus mykiss) 96 h

Geranyl acetate
static test LC50 - Leuciscus idus (Troutfish) – 68.12 mg/l -96 h

Terpinolene
LC50 0.805 mg/l fish ECHA 96 h

Acetic acid linalyl ester 115-95-7 LC50 11 mg/l fish 96 h

Alpha-Terpineol
LC50 70 mg/l fish ECHA 96 h

Citronellol
static test LC50 - Leuciscus idus (Troutfish) – 14.66 mg/l - 96 h Notes: (ECHA)

Farnesol
LC50 - Pimephales promelas (A small fish, stickleback) – 1.43 mg/l- 96 h Notes: (ECHA)
Farnesol 4602-84-0 LC50 1.8 mg/l Canadian trout (Oncorhynchus mykiss) 96 h

Cis-Nerolidol
progress test LC50 - Pimephales promelas (A small fish, stickleback) – 1.43 mg/l - 96 h
progress test NOEC - Pimephales promelas (A small fish, stickleback) – 0.64 mg/l - 96 h

6-Methyl-5-hepten-2-one
static test LC50 - Leuciscus idus (Troutfish) - 50 mg/l - 96 h
(DIN 38412)

Toxic for Daphnia and other aquatic invertebrates

Citral
EC50 6.8 mg/l aquatic invertebrates ECHA 48 h

Geraniol
EC50 10.8 mg/l aquatic invertebrates ECHA 48 h
EC50(48 h, Daphnia magna (Water flea)) = 7.75 mg/l (OECD Test Guideline 202)
D-(+)- limonene 5989-27-5 EC50 0.307 mg/l aquatic invertebrates 48 h

Linalool
EC50 59 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)

Terpinolene
EC50 0.634 mg/l aquatic invertebrates ECHA 48 h

Acetic acid linalyl ester 115-95-7 EC50 59 mg/l aquatic invertebrates 48 h
Citronellol
static test EC50 - Daphnia magna (Water flea) – 17.48 mg/l - 48 h Notes: (ECHA)
Farnesol
semi-static test EC50 - Daphnia magna (Water flea) – 0.568 mg/l -48 h (OECD Test Guideline 202)
semi-static test NOEC - Daphnia magna (Water flea) – 0.532 mg/l -48 h (OECD Test Guideline 202)

Cis-Nerolidol
static test EC50 - Daphnia magna (Water flea) – 0.5103 mg/l - 48h
(Regulation (EC) No 440/2008, Annex, C.2)

Geranyl formate 105-86-2 EC50 2.3 mg/l aquatic invertebrates 48 h

6-Methyl-5-hepten-2-one
static test EC50 - Daphnia magna (Water flea) - 74 mg/l - 48 h
(DIN 38412)

beta-Myrcene
EC50 - Daphnia magna (Water flea) – 1.47 mg/l - 48 h (OECD Test Guideline 202)

Algae/aquatic plants

Citral
ErC50 103.8 mg/l algae ECHA 72 h

Geraniol
ErC50 13.1 mg/l algae ECHA 72 h
ErC50(72 h, Scenedesmus capricornutum (fresh water algae)) = 3.32 mg/l (OECD Test Guideline 201)

D-(+)-limonene 5989-27-5 ErC50 0.32 mg/l algae 72 h

Linalool
ErC50 156.7 mg/l algae ECHA 96 h

Beta-Caryophyllene
ErC50 >0.033 mg/l algae ECHA 72 h

Terpinolene
ErC50 0.692 mg/l algae ECHA 72 h

Acetic acid linalyl ester 115-95-7 ErC50 62 mg/l algae 72 h

Citronellol
static test ErC50 - Scenedesmus quadricauda (green algae) – 2.4 mg/l - 72 h
Notes: (ECHA)

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)
Farnesol 4602-84-0 EC50 2.2 mg/l giant water flea 48 h

Cis-Nerolidol
static test EC50 - Desmodesmus subspicatus (green algae) - 2 mg/l - 72 h (OECD Test Guideline 201)
static test NOEC - Desmodesmus subspicatus (green algae) – 0.44 mg/l - 72 h (OECD Test Guideline 201)

Geranyl formate 105-86-2 ErC50 0.23 mg/l algae 72 h

6-Methyl-5-hepten-2-one
static test ErC50 - Desmodesmus subspicatus (green algae) - approx.116 mg/l - 72 h (DIN 38412)

beta-Myrcene
ErC50 - Pseudokirchneriella subcapitata (green algae) – 0.32mg/l - 72 h (OECD Test Guideline 201)

Bacteria

Linalool
EC50 >100 mg/l microorganisms ECHA 30 min

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

Acetic acid linalyl ester 115-95-7 LC50 11.14 mg/l fish 20 h

Citronellol
Difficulty breathing EC50 - Pseudomonas putida
(A rod-shaped gram-negative bacterium) - > 10.000 mg/l – 0.5h
Notes: (ECHA)

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

Cis-Nerolidol
static test EC50 - Activated sludge - > 1.000 mg/l – 0.5 h
(OECD Test Guideline 209)

6-Methyl-5-hepten-2-one

static test EC50 - Activated sludge - 800 mg/l – 0.5 h
(OECD Test Guideline 209)

Chronic (long-term) toxicity:

beta-Pinene
May cause long-term adverse effects in the aquatic environment

Fish

D-(+)-limonene 5989-27-5 EC50 <0.67 mg/l fish 8 d

Acetic acid linalyl ester 115-95-7 LC50 11.14 mg/l fish 20 h

Shellfish

Limonene
EC50 188 µg/l aquatic invertebrates ECHA 21 d

Algae/water plants

Note : No data available

Other organisms

Citral
EC50 160 mg/l microorganisms ECHA 30 min

Geraniol
EC50 70 mg/l microorganisms ECHA 30 min

ß-pinene 18172-67-3
EC50 326 mg/l microorganisms ECHA 3 h

ß-pinene 18172-67-3
growth (EbCx) 10% 38 mg/l microorganisms ECHA 3 h

Terpinolene
EC50 69 mg/l microorganisms ECHA 3 h

12.2. Persistence and degradability

Product:

Abiotic degradation

Degradation of mixture components

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

D-(+)-limonene 5989-27-5 generation of carbon dioxide 58.8 % 14 d ECHA
D-(+)-limonene 5989-27-5 oxygen depletion 80 % 28 d ECHA

Linalool Abiotic degradation Time
oxygen depletion 40.9 % - 5 d

β-caryophyllene 87-44-5 oxygen depletion 10 % 28 d ECHA

ß-pinene 18172-67-3
oxygen depletion 76 % - 28 d

Terpinolene
oxygen depletion 81 % 28 d

Acetic acid linalyl ester 115-95-7 oxygen depletion ≥0 – ≤10 %
1 d ECHA

Citronellol aerobic - Exposure time 28 d

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

Cis-Nerolidol - aerobic - Exposure time 28 d
Result: 70 - 80 % - Easily biodegradable. (OECD Test Guideline 301)

Geranyl formate 105-86-2 oxygen depletion 79 % 28 d ECHA

6-Methyl-5-hepten-2-one
aerobic - Exposure time 28 d
Result: approx. 91 % - Easily biodegradable.
(OECD Test Guideline 301F)

Physical and photo-chemical elimination

Note : No data available

Biochemical degradation

Note : Biodegradation expected

12.3. Bioaccumulation

Product: No data available

Bioaccumulation of mixture components:

Citral log KOW 2.76 (25°C) (ECHA)
Geraniol log KOW 2.6 (25°C) (ECHA)
DL-limonene Log KOW 4.57
Linalool log KOW 2.9 (pH value: 7.20°C) (ECHA)
Beta-Caryophyllene log KOW 6.23 (pH value: 7.25°C) (ECHA)
Terpinolene n-octanol/water (log KOW) 4.47
Acetic acid linalyl ester 115-95-7 BCF 174, Log Kow 3.9 (25°C)
Farnesol 4602-84-0 ≥4.6 – ≤4.78 (22,3 °C)
Geranyl formate 105-86-2 4.1 (pH value: 7.42, 20°C)

Bioconcentration factor (BCF)		
Notes	:	Does not accumulate in biological environment

12.4. Mobility in soil

Product: No data available

Known or predicted distribution in environmental components		
Note	:	No data available
Surface tension		
Note	:	No data available
Adsorption/desorption		
Note	:	No data available

12.5. Results of PBT and vPvB assessment

Note : No data available

12.6. Endocrine-disrupting properties

Note : No data available

12.7. Additional information

Notes : No data available

13. Disposal Considerations

13.1. Waste treatment methods

Product : Treat this material and its packaging as hazardous waste. Dispose of contents/container in accordance with the local/regional/national/international regulation.

Information on discharge in sewer systems

Do not discharge into drains.

13.2. Relevant provisions relating to waste

Placing codes/names on the waste should be carried out in accordance with the Regulation on the catalog of waste, according to the specifics of the given production or process.

Properties of waste that make it hazardous

HP 4 irritant - skin irritation and eye damage
HP 13 sensitizing

European Catalogue waste number : * 16 03 05
organic waste containing hazardous substances

Notes

Waste must be separated into categories that can be treated separately by local or national waste management authorities. Note any national or regional regulations that are relevant.

14. Transport Information

14.1. UN number

Not subject to transport regulations

14.2. UN proper shipping name

Not specified

14.3. Transport hazard class(es)

There is no

14.4. Packing group

Not specified

14.5. Environmental hazards

No environmental hazard acc. Dangerous goods Regulations

14.6. Special precautions for user

No additional information

14.7. Sea transport of cargo in bulk according to instruments of the International Maritime Organization

The cargo is not intended for transport in bulk.

14.8. Information on all UN Model rules

Road, rail and inland water transport of dangerous goods (ADR/RID/ADN) - Additional information

Not subject to ADR, RID and ADN.

International Maritime Dangerous Goods Code (IMDG) - Additional information

Not subject to IMDG

International Civil Aviation Organization (ICAO-IATA/DGR) -Additional information

Not subject to ICAO-IATA/DGR

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

Substance name	Name in accordance with the inventory	CAS No.	Restriction	No.
Oil of palmarosa	This product meets the criteria for classification according to Regulation No. 1272/2008/EC		R3	3
Oil of palmarosa	substances in tattoo inks and permanent makeup		R75	75
D-(+)-limonene	flammable / pyrophoric		R40	40
D-(+)-limonene	substances in tattoo inks and permanent makeup		R75	75
ß-pinene	flammable / pyrophoric		R40	40
ß-pinene	substances in tattoo inks and permanent makeup		R75	75
β-caryophyllene	substances in tattoo inks and permanent makeup		R75	75

Acetic acid linalyl ester	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;

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)			
No.	**Hazardous substance/hazard categories**	**Threshold quantity (in tonnes) for the application of the requirements at low and high risk potential**	**Notes**
	not specified		

Deco-Paint Directive
VOC content 100 %
880 g/l

Directive on industrial emissions

VOC content	100 %
VOC content	880 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

Regulation on the marketing and use of explosives precursors

Not listed

Regulation on drug precursors

Not listed

Regulation on substances that deplete the ozone layer (ODS)

Not listed

Regulation concerning the export and import of hazardous chemicals (PIC)

Not listed

Persistent Organic Pollutants (POP) Regulation

Not listed

Other information

Directive 94/33/EC on the protection of young people at work. The restrictions on the employment of pregnant and breast-feeding women according to the Law on the Protection of Women at Work (92/85/EEC) should be observed.

The following restrictions are applicable according to 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	Cymbopogon Martini Oil, Geraniol, Geranyl Acetate, Linalool, Beta-Caryophyllene, Citral, Limonene, Terpinolene, Linalyl Acetate, Alpha - Terpineol, Citronellol, Farnesol, B-Pinene, Cis-Nerolidol, Geranyl butyrate, Geranyl formate, 6-Methyl-5-hepten-2-one, beta-Myrcene, beta-Ocimene
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, B-Pinene, 6-Methyl-5-hepten-2-one, beta-myrcene, beta-Ocimene
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	Cymbopogon Martini Oil, Geraniol, Geranyl Acetate, Linalool, Beta-Caryophyllene, Citral, Limonene, Terpinolene, Linalyl Acetate, Alpha - Terpineol, Citronellol, Farnesol, B-Pinene, Cis-Nerolidol, Geranyl butyrate, Geranyl formate, beta-myrcene
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	Cymbopogon Martini Oil, Geranyl Acetate, Linalool, Limonene, Terpinolene, Citronellol, B-Pinene, Cis-Nerolidol

National inventories

State	List	Status
AU	AICS	the substance is entered
CA	DSL	the substance is entered
CN	IECSC	the substance is entered
EU	ECSI	the substance is entered
EU	REACH Reg.	the substance is entered
KR	KECI	the substance is entered
NZ	NZIoC	the substance is entered
PH	PICCS	the substance is entered
TW	TCS	the substance is entered

Legend

AICS	Australian Inventory of Chemical Substances
CICR	Chemical Inventory and Control Regulation
DSL	Domestic Substances List (DSL)
ECSI	EC list of substances (EINECS, ELINCS, NLP)
KECI	Korea Existing Chemicals Inventory
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory

15.2. Chemical Safety Assessment

A chemical safety assessment has not been prepared for this substance.

16. Other information

Shelf life 30 months from the date of manufacture.

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

The method for classifying mixtures is based on the constituents of the mixture (additivity formula).

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

Specifying the changes : Change of allergens based on new gas-chromatographic analysis and new amendments to Regulation 1272/2008

Abbreviations and acronyms:

Abbr.	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 Chir.3	Hazardous to the aquatic environment
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
DGR	Dangerous Goods Regulations (see IATA/DGR))
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. EC50 refers to the concentration of the test substance causing a 50 % change in response (e.g. in growth) over a specified time interval
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
ErC50	≡ EC50: in this method, the concentration of test substance that causes a 50 % reduction in growth (EbC50) or growth rate (ErC50) relative to the control
Eye dam.	Serious eye damage
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
LD50	Lethal Dose 50 % LD50 refers to the dose of a test substance causing 50% lethality over a specified time interval
LC50	Lethal Concentration 50 %: LC50 refers to the concentration of test substance causing 50% lethality over a specified time interval
log KOW	n-octanol/water
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)
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
SVHC	Substance of Very High Concern
vPvB	very Persistent and very Bioaccumulative
EO No.	(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 No.	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 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No 1907/2006 (REACH) as amended by 2020/878/EU.

Road, rail and inland water transport of dangerous goods (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA)

- 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**
H315	Causes skin irritation
H317	May cause allergic skin reaction
H318	Causes serious eye damage
H412	Hazardous for aquatic life, with long-lasting effect
EUH208	Contains Citral, Geraniol, Limonene, Linalool, Beta-Pinene, Beta-Caryophyllene, Geranyl Acetate, Terpinolene, Linalyl Acetate, Alpha-Terpineol, Citronellol, Farnesol. May cause allergic reaction.
	List of instructions for safe treatment, used in the safety document
P102	Keep away from children
P262	Do not get in eyes, on skin, or on clothing.
P273	Avoid release in environment
P280	Use protective gloves/protective clothing/protective goggles /protective face mask.
P305 + P351 + P338	IF CONTACT WITH EYES: Rinse thoroughly with water for several minutes.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P501	Dispose of the content / container in an approved for disposal place in compliance with the 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 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 Ordinance 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 Ordinance, 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 Ordinance cannot be assigned to the new material unless expressly stated otherwise.

The information provided is intended only as a guide to safe handling, use, processing, storage, transportation, disposal and release and should not be considered a warranty or quality specification.
Due to the many factors beyond our control in the use of this product, we cannot accept responsibility for accidents, mishaps, loss or damage caused by its use.

E N D!

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

Customer: „ ALTEYA ORGANICS LLC, 1 Rose Field St., 6167, village of Yagoda, Stara Zagora Region
salesbg@alteya.com, http://alteya.com, +359 700 15 502

Name of product: Organic Palmarosa Oil (Cymbopogon Martini Oil)

	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	-	-	-
6	BENZYL CINNAMATE	H317; H411	103-41-3	203-109-3	-	-	-
7	BENZYL SALICYLATE	H317; H411	118-58-1	204-262-9	-	-	-
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	0,1 – 1,5	-	0,1 – 1,5
11	CITRONELLOL	H315; H317 H411	106-22-9	203-375-0	0,001 – 0,1	-	0,001 – 0,1
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	0,05 – 1,0	-	0,05 – 1,0
15	ALPHA-ISOMETHYL IONONE	H412	127-51-5	204-846-3	-	-	-
16	GERANIOL	H315; H317	106-24-1	203-377-1	75,0-85,0	-	75,0-85,0
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	-	-	-
20	BUTYLPHENYL METHYLPROPIONAL (LILIAL)	H317	80-54-6	201-289-8	-	-	-
21	LIMONENE	H226; H315 H317; H411	5989-27-5	227-813-5	0,1 – 1,5	-	0,1 – 1,5
22	LINALOOL	H315	78-70-6	201-134-4	1,5 – 4,0	-	1,5 – 4,0
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	BETA-CARYOPHYLLENE	H304; H317	99-86-5	202-795-1	-	-	-
28	EUGENYL ACETATE	H302; H315; H317	93-28-7	202-235-6	-	-	-
29	BETA PINENE	H226; H304; H15;H317; H400	127-91-3	204-872-5	0,001-0,5	-	0,001-0,5
30	TERPINOLENE	H304; H317; H400; H410	586-62-9	209-578-0	0,001 – 0,1	-	0,001 – 0,1
31	BETA-CARYOPHYLLENE	H304; H317	99-86-5	202-795-1	0,5 – 2,5	-	0,5 – 2,5
32	LINALYL ACETATE	H315; H317 H319	115-95-7	204-116-4	0,001 – 0,1	-	0,001 – 0,1
33	ALPHA-TERPINEOL	H315; H319	98-55-5	202-680-6	0,001 – 0,1	-	0,001 – 0,1
34	GERANYL ACETATE	H315; H319 H412	105-87-3	203-341-5	7,0 – 15,0	-	7,0 – 15,0

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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