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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 Mey Chang Oil

Version 02 Date of creation: 14.07.2020
Supersedes the version from: 14.07.2020 Date of new version: 20.11.2023

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

1.1. Product Identifiers

Product name	:	Organic Litsea oil
Substance name (INCI)	:	LITSEA CUBEBA FRUIT OIL
REACH Registration No	:	-
CAS No	:	68855-99-2 / 90063-59-5
EO No	:	- / 290-018-7
ISO	:	ISO 3214:2000
Biological origin	:	Produced by means of distillation of the fresh or dried fruit of the tree Litsea Cubeba C.H. Peerson = Tetranthera polyantha var.citrata Nees = L.citrata Blue of Lauraceae family.

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
Website : **http:// alteya.com**

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**
3.10	Inh.	Inhalation hazard	(Asp Tox 1)	H304
3.2	Skin	Skin irritation	Corrosion/irritation 2	H315
3.4	Sens.	Skin sensitization	(Skin sens 1)	H317
3.3	Eye	Eye irritation	(Corrosion)Damage/ Irritation. 2A	H319
4.1	Chronic	Hazardous for aquatic environment	Aquatic Chronic 2	H411

2.1.2. Additional information:

For full text of hazard statements and EC specific hazard statements: see SECTION 16.

Substance name	Identifiers	Specific limit concentrations	M-Factors	ATE	Exposure route
DL-α-pinene	CAS No. 80-56-8 EO No. 201-291-9	-	-	1.000 mg/kg	oral

2.2. Label Elements

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

Hazard pictograms

GHS08 GHS07 GHS09

Signal word : Hazardous

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

Hazard statements concerning environment : H411 Toxic for aquatic life with long-lasting effect

EUH208 Contains: Citral, Geraniol, Isoeugenol, Limonene, Linalool, Alpha-Pinene, Camphor, Beta-Caryophyllene, Alpha-Terpineol, Geranyl Acetate. May cause allergic reaction.

Safety recommendations

Safety recommendations		
- General	P102	Keep out of reach of children
Safety recommendations		
- Prevention	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
	P273	Avoid release to the environment.
	P280	Use protective gloves/protective clothing/protective goggles/protective facial mask.
Safety recommendations		
- As a reaction	P301+P310	IF SWALLOWED: immediately call TOXICOLOGY CENTRE or a physician.
	P331	DO NOT induce vomiting
	P302+P352	IF ON SKIN: Wash with plenty of water/…
	P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
	P333+P313	If skin irritation or rash occurs: Seek medical advice/help.
	P305+ P351+ P338	If in the eyes: Rinse carefully with water for several minutes. Remove contact lenses if there are such and if possible. Continue rinsing.
	P337+P313	If eye irritation persists: Get medical advice/attention.
	P362+P364	Take off contaminated clothing and wash before reuse.
	P391	Collect spillage
Safety recommendations		
If stored:	P405	Store locked up.
At disposal:	P501	Dispose of contents/container in an approved place and in compliance with the local and national regulations.

Other hazards

This material is combustible but will not ignite easily.

3. Composition/information on ingredients

3.1. Substances/ Mixture

INGRIDIENT	*IDENTIFIERS*	*%*	*CLASSIFICATION*
LITSEA CUBEBA FRUIT OIL	*EINECS NO: - / 290-018-7* *CAS NO: 68855-99-2 / 90063-59-5*	*100,0*	*Asp. Tox. 1 – H304* *Skin Irrit. 2 – H315* *Skin Sens. 1 – H317* *Eye Irrit. 2 - H319* *Aquatic Chronic 2 - H411*
α-PINENE	*EINECS NO: 201-291-9* *CAS NO: 80-56-8*	*До 1,5*	*Flam. Liq. 3 H226* *Skin Irrit. 2 H315* *Skin Sens. 1B H317* *Asp. Tox. 1 H304* *Aquatic Acute 1 H400* *Aquatic Chronic 1 H410*
CITRAL	*EINECS NO: 226-394-6* *CAS NO: 5392-40-5*	*1,5 – 40,0*	*Skin Irrit. 2 – H315* *Skin Sens. 1 – H317*
GERANIOL	*EINECS NO: 203-377-1* *CAS NO: 106-24-1*	*5,0 – 10,0*	*Skin Irrit. 2 – H315* *Skin Sens. 1 – H317* *Eye Dam. 1, H318*
ISOEUGENOL	*EINECS NO: 202-590-7* *CAS NO: 97-54-1*	*< 1,0*	*Acute Tox. 4; H302, H312* *Skin Irrit. 2; H315* *Eye Irrit. 2; H319* *Skin Sens.1A; H317* *STOT SE 3; H335* *Limit concentrations:* *>= 0,01 %: Skin Sens.1A, H317*
LIMONENE	*EINECS NO: 227-813-5* *CAS NO: 5989-27-5*	*< 1,0*	*Flam. Liq. 3 – H226* *Skin Irrit. 2 – H315* *Skin Sens. 1 – H317* *Asp. Tox. 1 - H304* *Aquatic Acute 1 – H400* *Aquatic Chronic 1 – H410*
LINALOOL	*EINECS NO: 201-134-4* *CAS NO: 78-70-6*	*1,5 – 3,0*	*Eye Irrit. 2A (H319)* *Skin Sens. 1B (H317)* *Skin Irrit. 2 (H315)* *Aquatic Chronic 2 / H411*
Camphor	*EINECS NO: 200-945-0* *CAS NO: 76-22-2*	*1,0 – 3,0*	*Flam. Sol. 1 / H228* *Skin Irrit. 2 / H315* *Eye Irrit. 2 / H319* *STOT SE 3 / H335*
Alpha - Terpineol	*EINECS NO: 202-680-6* *CAS NO: 98-55-5*	*0,1 – 0,5*	*Skin Irrit. 2 / H315* *Eye Irrit. 2 / H319*
beta Caryophllene	*EINECS NO: 201-746-1* *CAS NO: 87-44-5*	*1,0 – 3,0*	*Asp. Tox. 1 – H304* *Skin Sens. 1 – H317*
GERANYL ACETATE	*EINECS NO: 203-341-5* *CAS NO: 105-87-3*	*5,0 – 10,0*	*Skin Irrit. Cat.2, H315* *Eye .irrit, Cat. 2A; H319* *Aquatic Chronic 4, H412*

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).
- Following inhalation	:	Immediately remove the exposed person away from the source of exposure to fresh air. Seek medical advice if discomfort persists.
- Following skin contact	:	Remove contaminated clothing and wash the skin with soap and water. In case of rash or redness seek medical advice.
- Following eye contact	:	Immediately start rinsing the eyes with plenty of water for at least 15 min. Remove the contact lenses. Immediately seek medical advice. Continue rinsing.
- Following ingestion	:	Do not nduce vomiting. Wash the mouth with plenty of water immediately. Seek medical advice.
- Self-protection of first aid provider	:	No additional data available.

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

Symptoms	:	Causes eye and skin irritation. May cause allergic skin reaction in case of sensitive, susceptible people.
Effects	:	Irritation, Allergic reactions

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

Treatment	:	No specific antidote available. Treat symptomatically.

5. Fire-fighting Measures

5.1. Extinguishing media

Suitable extinguishing media	:	Water spray, dry extinguishing, BC-powder, carbon dioxide (CO_2).
Unsuitable extinguishing media	:	Do not use full water jet on burning material.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products	:	Carbon monoxide (CO), carbon dioxide (CO_2). Burning may release poisonous gases containing carbon monoxide.
Specific hazards during fire-fighting	:	No data available

5.3. Advice for firefighters:

Special protective equipment for firefighters	:	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

Wear appropriate protective equipment (including the personal protective equipment listed in Section 8 of this Material Safety Data Sheet) to prevent contamination of skin, eyes and personal clothing. Do not breathe vapor/aerosol. Work with the product using protective gloves. Maintain adequate ventilation in work area after spill.

6.2. Environmental precautions

Environmental precautions	:	Protect against contamination of drains, surface and ground water. Save the contaminated wash water and dispose it of.

6.3. Methods and materials for containment and cleaning up

6.3.1. For containment	:	Covering of drains. Cover with inert, inorganic, non-combustible absorbing material.
6.3.2. For cleanup	:	Should be mechanically absorbed with a binding material (sand, diatomaceous earth, acid binder or universal).
6.3.3. More information	:	Place in appropriate disposal containers. Ventilate the affected area.
Methods and materials for cleanup	:	Dispose of in accordance with current laws containment and and regulations.

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	:	Provide adequate ventilation. Handle in accordance with good practices for hygiene and safety. Do not breathe vapours. During application, do not eat, drinkp smoke, do not wear contaminated clothes.
Fire-fighting measures	:	Keep away from sources of ignition.
Measures to avoid transformation into aerosols and powder	:	Provide adequate ventilation.
Environmental precautionary: measures		Follow the instructions on storage of the product.
Advice on general occupational hygiene	:	Wash your hands before breaks and at the end of the working day. Avoid contact with eyes and skin. Keep away from drinks and food for humans and animals.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	:	Store the container tightly closed. Store only in original packaging.
Packing materials	:	Use packing materials which allow integrity of the product.
Requirements to storage areas or containers	:	Keep the container tightly closed in a dry, ventilated area, away from potential sources of ignition and away from sunlight.
Storage class	:	No data available
Additional information on storage conditions	:	Store in a closed container.
Requirements to storage areas and containers	:	Drums or containers with internal varnish coating, not reacting with oils at temperatures up to 15-25°C.
Recommendations for protection from fire and explosions	:	Not known
Class of dust explosion	:	No data available
Recommendations for primary storage	:	Keep in dark and cool place
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).
• In all other cases they are subject to Chemicals Ordinance.

8. Exposure controls/Personal protection equipment

8.1. Control parameters

Ordinance No. 13 of December 30, 2003 on protection of workers from the risks related to to chemical agents at work - (amended SG No. 5 of January 17, 2020)

State	Reagent name	CAS No.	Identifier	8 h [mg/ m³]	15 min [mg/ m³]	Ceiling -C [mg/ m³]	Notation	Source
BG	camphor	76-22-2	GSRM	12	18			Ordinance No. 13

***Notation**
15 min Short-term exposure limit: limit value which there should be no exposure above and which refers to a 15-minute period, unless otherwise stated
8 hours Time-averaged value (long-term exposure limit): measured or calculated over an average base period of eight hours.

Other occupational exposure limits

Information on monitoring procedures
Relevant DNEL-/DMEL-/PNEC and other threshold levels

Litsea Cubeba Oil
DNEL 9 mg/m³ human, inhalation industrial worker chronic - systemic effects
DNEL 1,71 mg/kg bw/day human, dermal industrial worker chronic - systemic effects

Relevant DNEL - mixture components
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

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

Citral
DNEL 9 mg/m³ human, inhalation industrial worker chronic - systemic effects
DNEL 1,7 5 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 5 mg/kg bw/day human, dermal industrial worker chronic - systemic effects
DNEL 11.800 µg/cm² human, dermal industrial worker 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

Camphor 76-22-2 DNEL 17,63 mg/m³ human, inhalation industrial worker chronic - systemic effects
Camphor 76-22-2 DNEL 10 5 mg/kg bw/day human, dermal industrial worker chronic - systemic effects
DL-α-pinene 80-56-8 DNEL 3,8 mg/m³ human, inhalation industrial worker chronic - systemic effects
DL-α-pinene 80-56-8 DNEL 0,542 mg/kg bw/day human, dermal industrial worker chronic - systemic effects

Relevant PNEC- mixture components

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 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 sediments freshwater short-term (instant)
Linalool 78-70-6 PNEC 0,222 mg/kg aquatic organisms marine sediments short-term (instant)
Linalool 78-70-6 PNEC 0,327 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)

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)

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)

D-(+)-limonene 5989-27-5 PNEC 14 µg/l aquatic organisms freshwater short-term (instant)
D-(+)-limonene 5989-27-5 PNEC 1,4 µg/l aquatic organisms marine short-term (instant)
D-(+)-limonene 5989-27-5 PNEC 1,8 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
D-(+)-limonene 5989-27-5 PNEC 3,85 mg/kg aquatic organisms sediments freshwater short-term (instant)
D-(+)-limonene 5989-27-5 PNEC 0,385 mg/kg aquatic organisms marine sediments short-term (instant)
D-(+)-limonene 5989-27-5 PNEC 0,763 mg/kg terrestrial organisms soil short-term (instant)

Camphor 76-22-2 PNEC 1,71 µg/l aquatic organisms freshwater short-term (instant)
Camphor 76-22-2 PNEC 0,171 µg/l aquatic organisms marine short-term (instant)
Camphor 76-22-2 PNEC 1 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
Camphor 76-22-2 PNEC 0,139 mg/kg aquatic organisms sediments freshwater short-term (instant)
Camphor 76-22-2 PNEC 0,017 mg/kg aquatic organisms marine sediments short-term (instant)
Camphor 76-22-2 PNEC 0,013 mg/kg terrestrial organisms soil short-term (instant)

DL-α-pinene 80-56-8 PNEC 0,606 µg/l aquatic organisms freshwater short-term (instant)
DL-α-pinene 80-56-8 PNEC 0,061 µg/l aquatic organisms marine short-term (instant)
DL-α-pinene 80-56-8 PNEC 0,2 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
DL-α-pinene 80-56-8 PNEC 157 µg/kg aquatic organisms sediments freshwater short-term (instant)
DL-α-pinene 80-56-8 PNEC 15,7 µg/kg aquatic organisms marine sediments short-term (instant)
DL-α-pinene 80-56-8 PNEC 31,7 µg/kg terrestrial organisms soil short-term (instant)

Alpha-Terpineol
PNEC 68 µg/l aquatic organisms freshwater short-term (instant)
PNEC 6,8 µg/l aquatic organisms marine short-term (instant)
PNEC 2,6 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
PNEC 1,85 mg/kg aquatic organisms sediments freshwater short-term (instant)
PNEC 0,185 mg/kg aquatic organisms marine sediments short-term (instant)
PNEC 0,329 mg/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. Appropriate engineering control

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).
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

Environmental exposition 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	:	Mobile liquid
Color	:	Pale-yellow to pale-brown
Odor	:	Characteristic, fresh reminding of citral and verbena.
Odor threshold	:	No data available.
pH	:	Not defined
Melting point/freezing point	:	<-20 °C (ECHA)
Boiling point	:	No data available
Boiling point/ boiling range	:	83°C at 1.013 hPa (ECHA)
Flash point, in °C	:	68,3°C (ECHA)
Autoignition temperature	:	265°C at 1.004 hPa (ECHA)
Evaporation rate	:	No data available
Flammability (solid substance, gas):		No data available
Upper flammability/ explosion limit	:	No data available
Lower flammability/ explosion limit	:	No data available
Vapour pressure	:	60,29 Pa at 25°C
Solubility (ies)	:	Soluble in alcohol and oils, aromatic hydrocarbons. halogenated solvents and ketone.
Insoluble in	:	water
Partition coefficient n-octanol/ water Log/Pow	:	2,06 – 6,3 (pH value: 7,25°C) (ECHA)
Organic carbon in soil/water (log KOC)	:	1.622 – 4.251 (ECHA)

Thermal decomposition	:	No data available
Explosivity	:	No data available
Oxidizing properties	:	No data available

Other information

Refractive index at 20°C	:	1.470 up to 1.500
Relative density at 20°C	:	0.880 up to 0.910
Optical rotation in °	:	-3.0 up to +12.0

No additional data available.

10. Stability and Reactivity

10.1. Reactivity

Note	:	This material is not reactive under normal environmental conditions.
When heated	:	Vapour can 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 use.

10.3. Possible hazardous reactions

Hazardous reactions	:	Reacts violently with: strong oxidizer.

10.4. Conditions to avoid

Conditions to avoid	:	Temperatures higher than 25°C
Thermal decomposition	:	No data available.

10.5. Incompatible materials

Materials to avoid	:	No additional data available.

10.6. Hazardous decomposition products

Hazardous decomposition products : Carbon monoxide, carbon dioxide and inorganic compounds may occur during burning.

11. Toxicological Information

All the values presented bellow are taken from literatury sources. There is not available toxicology information concerning the mixture itself.

11.1. Information on toxicological effects

Acute toxicity

Litsea Cubeba Oil
oral LD50 >5.000 mg/kg rat ECHA
dermal LD50 4.800 mg/kg rabbit ECHA

Citral
oral LD50 6.800 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

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

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

DL-α-pinene 80-56-8 oral 1.000 mg/kg
DL-α-pinene 80-56-8 dermal LD50 >2.000 mg/kg rat
DL-α-pinene 80-56-8 oral LD50 3.700 mg/kg rat

β-caryophyllene 87-44-5 oral LD50 >5.000 mg/kg mouse
Oral, NOAEL: 700 mg/kg (rat) (90 days Schmitt 2016)

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

Corrosion/Skin irritation

Litsea Cubeba Fruit Oil
LD50 Skin (Rabbit)>= 4800 mg/kg

Citral
Causes skin irritation

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)

Geraniol
LD50 Skin - Rabbit - > 5.000 mg/kg
Corrosivity/skin irritation
Skin - Rabbit
Result: Skin irritation. - 24 h, (OECD Test Guideline 404)

ISOEUGENOL
LD50 Oral - rat - 1.560 mg/kg
Notes: Liver. Disordered liver functions. Nutritional and gross metabolism. Changes in: Reduction of body temperature (RTECS)
Inhalation: No data available
Assessment of acute toxicity Skin - 1.100,1 mg/kg (Expert decision)

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

β- caryophyllene 87-44-5 oral LD50 >5.000 mg/kg mouse

Alpha-Terpineol
Causes skin irritation.

Notes : Irritates skin and mucous membranes.

Serious damage/eye irritation

Result : Seriously irritation of eyes.

Citral
Eyes - Rabbit
Result: Causes serious eye irritation. (OECD Guideline 405)

Geraniol
Serious eye corrosion/irritation
Eyes - Rabbit

Result: Risk of serious eye damage. - 24 h
(Ordinance 67/548/EEC, Annex V, B.5.)

Linalool (Cas:78-70-6)
Corneal Haze: Average Score =1
Species: Rabbit
Duration Of Exposure: 24hoecdguideline 405 (Acute Eye Irritation /Corrosion)

Iritis: Average Score =0.6
Species: Rabbit
Duration Of Exposure: 24hoecdguideline 405(Acute Eye Irritation /Corrosion)
Conjunctival Redness: Average Score =2.3
Species: Rabbit
Duration Of Exposure: 24hoecdguideline 405(Acute Eye Irritation /Corrosion

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

Respiratory or skin sensitization

Citral
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)
May cause allergic reaction

Geraniol
- Guinea pig - possible sensitization if skin contact.

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)

Note : If contact with skin 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 Group 3: 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	:	No data available

STOT (specific target organ toxicity) — repeated exposure		
Note	:	No data available

Aspiration hazard

ISOEUGENOL
Inhalation - May cause irritation of the respiratory tract.

Information on possible routes of exposure		
Note	:	No data available

Symptoms related to physical, chemical and toxicological characteristics		
Note	:	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	:	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	:	Aspiration of liquid may cause pulmonary edema.

11.2. Properties disturbing the functions of the endocrine system

Note : No data available

12. Ecological information

Note : Toxic to aquatic organisms with long-lasting effect.

12.1. Toxicity

Product:

Acute (short-term) toxicity:

Fish

Litsea Cubeba Oil
LL50 4,2 mg/l fish 24 h

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

Citral
Static test LC50 - Leuciscus idus (Troutfish) - 6,78 mg/l - 96h (DIN 38412)
LC50 6,78 mg/l fish ECHA 96 h

Linalool
LC50 27,8 mg/l fish ECHA 96 h

D-(+)-limonene 5989-27-5 LC50 0,46 mg/l fish 96 h

Camphor 76-22-2 LC50 33,25 mg/l fish 96 h

DL-α-pinene 80-56-8 LC50 0,303 mg/l fish 96 h

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

Toxic for Daphnia and other aquatic invertebrates

Litsea Cubeba Oil
EL50 4,2 mg/l aquatic invertebrates 24 h

Citral
Static test EC50 - Daphnia magna (Water flea) - 6,8 mg/l - 48 h
Notes: (ECHA)

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

ISOEUGENOL
EC50 - Daphnia (waterflea) - 7,5 mg/l - 48 h
EC50 - Daphnia (waterflea) - 4,8 mg/l - 48 h
Notes: (calculated)

D-(+)-limonene 5989-27-5 EC50 0,307 mg/l aquatic invertebrates 48 h

β-caryophyllene 87-44-5 EC50 >0,17 mg/l giant water flea ECHA 48 h

Camphor 76-22-2 EC50 4,23 mg/l aquatic invertebrates 48 h

DL-α-pinene 80-56-8 EC50 0,475 mg/l aquatic invertebrates 48 h

Alpha-Terpineol
EC50 73 mg/l aquatic invertebrates ECHA 48 h

Algae/aquatic plants

Citral
Static test EC50 - Desmodesmus subspicatus (green algae) - 103,8 mg/l - 72 h ECHA

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)

Linalool
ErC50 156,7 mg/l algae ECHA 96 h

D-(+)- limonene 5989-27-5 ErC50 0,32 mg/l algae72 h

β-caryophyllene 87-44-5 ErC50 >0,033 mg/l algae 72 h

Camphor 76-22-2 ErC50 1,71 mg/l algae 72 h

Alpha-Terpineol
ErC50 68 mg/l algae ECHA 72 h

Bacteria

Citral
EC50 160 mg/l microorganisms ECHA 30 min

Linalool
EC50 >100 mg/l microorganisms ECHA 30 min

Note : No data available

Chronic (long-term) toxicity:

Note : No data available

Fish

D-(+)-limonene 5989-27-5 EC50 <0,67 mg/l fish 8 d

Shellfish

D-(+)-limonene 5989-27-5 EC50 188 µg/l aquatic invertebrates 21 d

Algae/water plants

Note : No data available

Other organisms

Geraniol
EC50 70 mg/l microorganisms ECHA 30 min

Camphor 76-22-2 EC50 >100 mg/l microorganisms 3 h

12.2. Persistence and degradability

Product:

Abiotic degradation

Degradation of mixture components

Citral
biotic/abiotic >90 % 28 d
oxygen depletion >90 % 28 d

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

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

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

Camphor 76-22-2 generation of carbon dioxide 85 % 28 d ECHA

DL-α-pinene 80-56-8
oxygen depletion 68 % - 28 d

Alpha-Terpineol
generation of carbon dioxide 80 % 28 d

12.3. Bioaccumulation

Product: No data available

Bioaccumulation potential of mixture components:

Citral n-octanol/water (log KOW) 2,76 (25°C) (ECHA)

Geraniol log KOW 2,6 (25°C) (ECHA)

Linalool log KOW 2,9 (pH value: 7,20°C) (ECHA)

D-(+)- limonene 5989-27-5 4,38 (pH value: 7,2, 37°C)

β-caryophyllene 87-44-5 (pH value: 7,25°C)

Camphor 76-22-2 Log Kow 2,414 (25°C)

Alpha-Terpineol
n-octanol/water (log KOW) 2,98 (TOXNET)

DL-α-pinene 80-56-8 4,83

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

12.4. Mobility in soil

Notes	:	The normalized adsorption coefficient of organic carbon: 1.622 – 4.251 (ECHA)

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

This product doesn't contain substances considered highly persistent nor highly bioaccumulative vPvB.
This product doesn't contain substances considered persistent, bioaccumulative or toxic PBT.

Product:

Results from PBT and vPvB assessment		
Note	:	No data available

12.6. Other adverse effects

Product:

Biochemical oxygen demand (BOD)		
Value	:	No data available

Chemical oxygen demand (COD)

Value	:	No data available

Additional ecological information/Mobility in soil

Notes	:	No data available

12.7. Additional information

Notes	:	Avoid release of products in streams, sewer systems or other water routes.

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. Avoid release to the environment, see special instructions/safety data sheet.

Container/packaging disposal considerations

It is a hazardous waste; only packaging that is approved (e.g. according to ADR) can be used.

13.2. Relevant provisions relating to waste

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

13.3. **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

Transport Icon : **Class: 9 Miscellaneous dangerous substances and articles**

14.1. UN number

ADR/RID/ADN UN	3082
IMDG Code UN	3082
ICAO-TI UN	3082

14.2. UN proper shipping name

ADR/RID/ADN	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
IMDG Code	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
ICAO-TI	Environmentally hazardous substance, liquid, n.o.s.
Technical name (hazardous ingredients)	Oil of cubeba

14.3. Transport hazard class(es)

ADR/RID/ADN	9
IMDG Code	9
ICAO-TI	9

14.4. Packing group

ADR/RID/ADN	III
IMDG Code	III
ICAO-TI	III

14.5. Environmental hazards

Hazardous to the aquatic environment

14.6. Special precautions for user

Dangerous goods regulations (ADR) must be followed within the sites.

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

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Details in the transport document	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., Oil of cubeba 9, III, (-)
Classification code	M6
Hazard label(s).	9, "Fish and wood"

Environmental hazards	yes (Harmful to aquatic life)
Special provisions (SP)	274, 335, 375, 601
Excluded quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Tunnel restrictions code (TRC)	-
Identif. Hazard No	90

International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
The details as per the shipper's declaration	UN3082, ENVIRONMENTALLY, HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Oil of cubeba)
Marine pollutant	yes (Harmful to aquatic life), (Oil of cubeba)
Hazard label(s).	9, "Fish and wood"

Special provisions (SP)	274, 335, 969
Excluded quantities(EQ)	E1
Limited quantities(LQ)	5 L
EmS	F-A, S-F
Storage category	A

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

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
The details as per the shipper's Declaration	UN3082, Environmentally hazardous substance liquid, n.o.s., (Oil of cubeba) 9, III
Environmental hazards	yes (Harmful to aquatic life)
Hazard label(s).	9, "Fish and wood"

Special provisions (SP)	A97, A158, A197, A215
Excluded quantities (EQ)	E1
Limited quantities (LQ)	30kg

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 cubeba	This product meets the criteria for classification according to Regulation No. 1272/2008/EC		**R3**	**3**
Oil of cubeba	substances in tattoo inks and permanent makeup		**R75**	**75**
D-(+)-limonene	flammable / pyrophoric		**R40**	**40**
β- caryophyllene	substances in tattoo inks and permanent makeup		**R75**	**75**
Citral	This product meets the criteria for classification according to Regulation No. 1272/2008/EC		**R3**	**3**
Citral	substances in tattoo inks and permanent makeup		**R75**	**75**
(+)-Camphor	запалими / пирофорен		**R40**	**40**
(+)-Camphor	substances in tattoo inks and permanent makeup		**R75**	**75**
DL-α-pinene	flammable / pyrophoric		**R40**	**40**
α-terpineol	This product meets the criteria for classification according to Regulation No. 1272/2008/EC		**R3**	**3**
α-terpineol	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;

R40 1. Shall not be used, as substance or as mixtures in aerosol dispensers where these aerosol dispensers are intended for supply to the general public for entertainment and decorative purposes such as the following:
- metallic glitter intended mainly for decoration,
- artificial snow and frost,

- 'whoopee' cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with:
'For professional users only'.
3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).
4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.
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

None of the ingredients are listed. (Or Concentration of the substance in the mixture: <0.1 % Mass concentration).

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**
E1	environmental hazards (hazardous to the aquatic environment, cat. 2)	**200**	**500**	**57)**

Notation
57) Hazardous to the aquatic environment in the category Chronic hazard, category 2

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

None of the ingredients are listed.

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

None of the ingredients are listed.

Water Framework Directive (WFD)

List of pollutants (WFD)				
Substance name	**Name in accordance with the inventory**	**CAS No.**	**Listed in**	**Notes**
Linalool	Substances and preparations or constituents thereof that have proven carcinogenic or mutagenic properties or properties that may affect steroids, thyroid, reproduction or other endocrine functions in or through the aquatic environment		A)	

Legend
A) Recommended list of major pollutants

Regulation on the marketing and use of explosives precursors

None of the ingredients are listed.

Regulation on drug precursors

None of the ingredients are listed.

Regulation on substances that deplete the ozone layer (ODS)

None of the ingredients are listed.

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

None of the ingredients are listed.

Persistent Organic Pollutants (POP) Regulation

None of the ingredients are 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	Litsea Cubeba Fruit Oil, A-Pinene, Citral, Geraniol, Isoeugenol, Limonene, Linalool, Camphor, Alpha-Terpineol, beta Caryophllene
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	A-Pinene, Limonene, Linalool, Camphor
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	Litsea Cubeba Fruit Oil, A-Pinene, Citral, Geraniol, Isoeugenol, Limonene, Linalool, Camphor, Alpha-Terpineol, beta Caryophllene
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	Litsea Cubeba Fruit Oil, A-Pinene, Limonene

National inventories

State	List	Status
AU	AICS	the substance is entered
CN	IECSC	the substance is entered
EU	ECSI	the substance is entered
KR	KECI	the substance is entered
PH	PICCS	the substance is entered
TW	TCS	the substance is entered

Legend

AICS	Australian Inventory of Chemical Substances
ECSI	EC list of substances (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
KECI	Korea Existing Chemicals Inventory

PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)
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]

Main references and literature data sources

Regulation (EC) No. 1272/2008 on classification, labeling and packaging of substances and mixtures (Classification, Labeling and Packaging). 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 (IMDG) Code. Dangerous Goods Regulations (DGR) for the air transport (IATA).

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, classification and additional information about the product based on gas-chromatographic analysis and latest changes.

Classification and procedure used to obtain the classification of mixtures according to Regulation (EC) No 1272/2008 [CLP]
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 Chronic 2	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
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
Eye irrit.	Eye irritation
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)
Skin Irrit.	Skin irritant
Skin Sens.	Skin sensitization
vPvB	very Persistent and very Bioaccumulative
EO No. 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 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 1907/2006 (REACH), as amended by 2020/878/EU

- 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 the respiratory tract.
H315	Causes skin irritation
H317	May cause allergic skin reaction

H319	Causes serious eye irritation
H411	Toxic to aquatic life with long-lasting effect
EUH208	Contains: Citral, Geraniol, Isoeugenol, Limonene, Linalool, Alpha-Pinene, Camphor, Beta-Caryophyllene, Alpha-Terpineol, Geranyl Acetate. May cause allergic reaction.
	List of instructions for safe treatment, used in the safety document
P102	Keep away from children
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P273	Avoid release in the environment
P280	Use protective gloves/protective clothing/protective goggles/protective facial mask.
P301 + P310	IF SWALLOWED: Immediately call a doctor/physician.
P331	Do NOT induce vomiting.
P333 + P313	In case of skin irritation or skin rash: Seek medical advice / assistance.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P305+P351+ P338	IF CONTACT WITH EYES: Rinse thoroughly with water for several minutes. Remove the contact lenses if there are such and if possible. Continue rinsing.
P391	Collect the spillage.
P405	Store locked up.
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.

E N D!

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 Region
salesbg@alteya.com, http://alteya.com, +359 700 15 502

Name of product: Organic Litsea Cubeba Oil (Litsea Cubeba Fruit Oil) – v.02/20.11.2023

	NAME OF SUBSTANCES	CAS No.	NATURAL %	SYNTHETIC %	TOTAL %
1	*AMYL CINNAMAL*	*122-40-7*	-	-	-
2	*AMYLCINNAMYL ALCOHOL*	*101-85-9*	-	-	-
3	*ANISE ALCOHOL*	*105-13-5*	-	-	-
4	*BENZYL ALCOHOL*	*100-51-6*	-	-	-
5	*BENZYL BENZOATE*	*120-51-4*	-	-	-
6	*BENZYL CINNAMATE*	*103-41-3*	-	-	-
7	*BENZYL SALICYLATE*	*118-58-1*	-	-	-
8	*CINNAMAL*	*104-55-2*	-	-	-
9	*CINNAMYL ALCOHOL*	*104-54-1*	-	-	-
10	*CITRAL*	*5392-40-5*	*40,0*	-	*40,0*
11	*CITRONELLOL*	*106-22-9*	-	-	-
12	*COUMARIN*	*91-64-5*	-	-	-
13	*EUGENOL*	*97-53-0*	-	-	-
14	*FARNESOL*	*4602-84-0*	-	-	-
15	*ALPHA-ISOMETHYL IONONE*	*127-51-5*	-	-	-
16	*GERANIOL*	*106-24-1*	*7,1*	-	*7,1*
17	*HEXYL CINNAMAL*	*101-86-0*	-	-	-
18	*HYDROXYCITRONELLAL*	*107-75-5*	-	-	-
19	*ISOEUGENOL*	*97-54-1*	*0,7*	-	*0,7*
20	*BUTYLPHENYL METHYLPROPIONAL (LILIAL)*	*80-54-6*	-	-	-
21	*LIMONENE*	*5989-27-5*	*0,6*	-	*0,6*
22	*LINALOOL*	*78-70-6*	*1,7*	-	*1,7*
23	*HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE (LYRAL)*	*31906-04-4*	-	-	-
24	*METHYL 2-OCTYNOATE*	*111-12-6*	-	-	-
25	*EVERNIA FURFURACEA LICHEN EXTRACT (TREEMOSS EXTRACT)*	*90028-67-4*	-	-	-
26	*EVERNIA PRUNASTRI (OAK MOSS)*	*90028-68-5*	-	-	-
27	*ALPHA PINENE*	*80-56-8*	*0,4*	-	*0,4*
28	*CAMPHOR*	*76-22-2*	*2,9*	-	*2,9*
29	*BETA-CARYOPHYLLENE*	*87-44-5*	*2,9*	-	*2,9*
30	*ALPHA-TERPINEOL*	*98-55-5*	*0,3*	-	*0,3*
31	*GERANYL ACETATE*	*105-87-3*	*6,6*	-	*6,6*

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