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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) 2017/1510

Organic Bergamot Oil

Version 02 Date of creation: 22.10.2019
Supersedes the version from: 22.10.2019 Date of new version: 05.12.2023

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

1.1. Product Identifiers

Product name	:	Organic Bergamot Oil
Substance name (INCI)	:	CITRUS AURANTIUM BERGAMIA PEEL OIL
REACH Registration No	:	-
CAS No	:	89957-91-5
EO No	:	289-612-9
ISO	:	ISO 3520:1998, supplemented /Cor 1:2002
Biological origin	:	The oil of bergamot is extracted by cold pressing of unripe fruit peel of Citrus aurantium L.ssp. bergamia Wight et Amott = C.bergamia Risso /.
ISO	:	ISO 3520:2022

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**
2.6	Flam.	Flammable liquids	(Flam. Liq. 3)	H226
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 3	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

GHS02 GHS07 GHS08 GHS09
Signal word : Hazardous

Hazard statements : H226 Flammable liquid and vapour.
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 : H412 Harmful for aquatic life with long-lasting effect

EUH208 Contains: Citral, Limonene, Alpha Pinene, Beta Pinene, Terpinolene, Beta-Caryophyllene, Carvone, Linalyl Acetate, Menthol, Alpha Terpineol, Geranyl Acetate, beta-Myrcene. May cause allergic reaction.

Safety recommendations

Safety recommendations
- General

P102 Keep out of reach of children

Safety recommendations
- Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 Keep container tightly closed.
P241Use explosion-proof [electrical/ventilating/lighting/…/ equipment.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P262 Do not get in eyes, on skin, or on clothing.
P264 Wash ... thoroughly after handling.
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.
P303+P361+ P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Flush skin with water/take a shower.
P331 Do NOT induce vomiting.
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.

	P302+P352	IF CONTACT WITH SKIN: Wash with plenty of soap and water.
	P333+P313	In case skin irritation or rash occurs: Seek medical advice/help.
	P391	Collect spillage
Safety recommendations		
If stored:	P403+P235	Store in a well-ventilated place. Keep cool.
At disposal:	P501	Dispose of contents/container in an approved place and in compliance with the local and national regulations.

2.3. Other hazards

No other information available.

3. Composition/information on ingredients

3.1. Substances/ Mixture

INGRIDIENT	***IDENTIFIERS***	***%***	***CLASSIFICATION***
CITRUS AURANTIUM BERGAMIA PEEL OIL	*EINECS NO: 289-612-9* *CAS NO: 89957-91-5*	*100,0*	 *DANGER* *Flam. Liq. 3, H226* *Asp. Tox. 1 H304* *Skin Irrit. 2 – H315* *Skin Sens. 1B H317* *Eye Irrit. 2A H319* *Aquatic Chronic 3 H412*
α-PINENE	*EINECS NO: 232-077-3* *CAS NO: 7785-26-4*	*1,0 – 5,0*	*Flam. Liq. 3, H226* *Asp. Tox. 1, H304* *Skin Irrit. 2, H315* *Skin Sens. 1, H317* *Aquatic Acute 1, H400*
CITRAL	*EINECS NO: 226-394-6* *CAS NO: 5392-40-5*	*0,1 – 1,0*	*Skin Irrit. 2, H315* *Eye .irrit, Cat. 2A; H319* *Skin Sens. 1 – H317*
GERANYL ACETATE	*EINECS NO: 203-341-5* *CAS NO: 105-87-3*	*1,0 – 2.0*	*Skin Irrit. Cat.2, H315* *Eye .irrit, Cat. 2A; H319* *Aquatic Chronic 4, H412*
LIMONENE	*EINECS NO: 227-813-5* *CAS NO: 5989-27-5*	*25,0 – 50,0*	*Flam. Liq. 3 – H226* *Skin Irrit. 2 – H315* *Skin Sens. 1 – H317* *Asp. Tox. 1 - H304* *Aquatic Acute 1 – H400* *Aquatic Chronic 3 – H412*

MENTHOL	*EINECS NO: 218-690-9* *CAS NO: 2216-51-5*	*0,1 – 1,0*	*Skin Irrit. 2 / H315* *Eye Irrit. 2 / H319*
b-PINENE	*EINECS NO: 204-872-5* *CAS NO: 127-91-3*	*5,0 – 10,0*	*Flam. Liq. 3, H226* *Asp. Tox. 1, H304* *Skin Irrit. 2, H315* *Skin Sens. 1, H317* *Aquatic Acute 1, H400*
TERPINOLENE	*EINECS NO 209-578-0* *CAS NO: 586-62-9*	*5,0 – 10,0*	*Skin Sens. 1B / H317* *Asp. Tox. 1 / H304* *Aquatic Acute 1 / H400* *Aquatic Chronic 1 / H410*
BETA-CARYOPHYLLENE/ (−)-trans-Caryophyllene	*EINECS NO: 202-795-1* *CAS NO: 99-86-5*	*1,0 – 3,0*	*Asp. Tox. 1 – H304* *Skin Sens. 1 – H317*
CARVONE	*EINECS NO: 229-352-5 / 218-827-2 / 202-759-5* *CAS NO: 6485-40-1 / 99-49-0 / 2244-16-8*	*0,1 – 1,0*	*Skin Sens. Cat.1, H317*
LINALYL ACETATE	*EINECS NO: 204-116-4* *CAS NO: 115-95-7*	*10,0 – 25,0*	*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*
BETA - MYRCENE	*EINECS NO: 204-622-5* *CAS NO: 123-35-3*	*< 2,0*	*Flam. Liq. 3 - H226* *Asp. Tox. 1, H304* *Skin Irrit. 2 – H315* *Eye Irrit. 2 - H319*

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

4. First Aid Measures

4.1. Description of first aid measures

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

- Following inhalation : Provide fresh air. In all cases of or in the presence of

symptoms, seek medical attention.

- Following skin contact	:	Flush skin with water/take a shower. In case of skin reactions, seek medical attention.
- Following eye contact	:	Immediately flush eyes with plenty of clean, fresh water for at least 10 minutes, holding eyelids open. In case of eye irritation, consult an ophthalmologist.
- Following ingestion	:	Call a doctor immediately. In case of vomiting, be aware of the risk of inhalation.

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

Symptoms	:	Aspiration hazard, Irritation, Allergic reactions

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

Treatment	:	There isn't a specific antidote. Treat symptomatically.

5. Fire-fighting Measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

Specific hazards during fire-fighting	:	Combustible. May form flammable or explosive vapour-air mixture if insufficiently ventilated and/or used. Solvent vapors are heavier than air and can spread across floors. Places that are not ventilated, for example stuffy areas below ground level such as ditches, tunnels and shafts, are particularly susceptible to the presence of flammable substances or mixtures.

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.
Additional data	:	No information.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. **For personnel not responsible for emergencies**

Do not inhale the vapor/aerosol. Avoid contact with eyes, skin and clothing. Avoid ignition sources. Ensure adequate ventilation. There is a danger of slipping on the site with spilled product. Thoroughly wash the spill area. Remove all sources of ignition. Keep unnecessary personnel away. Ventilate enclosed spaces before entering them. Stop the leak if you can do so without risk. Follow the instructions in Sections 7, 8 and 13.
For firefighters: Firefighters will be equipped with appropriate personal protective equipment (see Section 8). High temperature can increase the pressure in the container - cool the container by spraying water.

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

Personal precautions	:	Only qualified personnel equipped with appropriate protective equipment may intervene: Maintain good occupational and personal hygiene.

6.2. Environmental precautions

Environmental precautions	:	Do not dispose directly into reservoirs, drains and sewer system, do not pollute the soil. Inform the relevant authorities in case of leakage into the sewage system or waterways.

6.3. Methods and materials for containment and cleaning up

6.3.1. For containment	:	Swab up using hygroscopic material (sand, kieselguhr, universal binder, sawdust). Contaminated materials should be treated as waste according to Section 13. Provide adequate ventilation.
6.3.2. For cleanup	:	Pump larger quantities. Collected in well-closed containers and dispose according to the instructions in Section 13. After removing the product, wash the contaminated area with plenty of water. *For small spills*: Wipe with an absorbent material (e.g. cloth, fleece). Clean the surface thoroughly until the contamination is removed.

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	:	Apply good manufacturing practice and industrial hygiene practices by ensuring adequate ventilation in the workplace. Keep the original container closed. Avoid contact with skin and eyes. Maintain good personal hygiene and do not eat, drink or smoke while working.
Fire-fighting measures	:	Keep away from heat, sparks and open flame. Avoid exposure to high temperatures during processing.
Measures to avoid transformation into aerosols and powder	:	Provide adequate ventilation.
Environmental precautionary: measures		Follow the storage instructions for the product.
Advice on general occupational		

hygiene	:	Wash your hands before breaks and at the end of the working day. Avoid skin and eye contact.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	:	Store the product in stainless steel drums, preferably in an inert atmosphere (e.g. nitrogen) protected from daylight. Store the product in a dry, well ventilated place (between 15-25°C), away from heat and ignition sources.
Packing materials	:	Use packing materials preserving the integrity of the product.
Requirements to storage areas or containers	:	To use local and general ventilation of the premises at recommended temperature and humidity.
Storage class	:	No information
Additional information on storage conditions	:	Store in a closed container.
Requirements to storage areas or containers	:	Store only in original packaging.
Recommendations for protection from fire and explosions	:	Not known
Dust explosion class	:	No information
Recommendations for primary storage	:	Store in a dark and cool place. Apply good manufacturing practice and industrial hygiene practices by ensuring adequate ventilation in the workplace. Maintain good personal hygiene and do not eat, drink or smoke while working.
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

(R)-p-Mentha-1,8-diene - Index: NA, CAS: 5989-27-5, EC No: 227-813-5
TLV TWA - TLV STEL- VLE 8h- VLE short: None.

Pinene Limit value -8 hours 113 mg/m³ -

Other occupational exposure limits

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

CITRUS AURANTIUM BERGAMIA PEEL OIL
DNEL 6,88 mg/m³ human, inhalation industrial worker chronic - systemic effects
DNEL 3,9 mg/kg bw/day human, dermal industrial worker chronic - systemic effects

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

beta-Pinene
DNEL 5,69 mg/m³ human, 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

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

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

Linalyl ester of acetic acid 115-95-7 DNEL 2,75 mg/m³ human, inhalation industrial worker chronic - systemic effects
Linalyl ester of acetic acid 115-95-7 DNEL 2,5 mg/kg bw/day human, dermal industrial worker chronic - systemic effects
Linalyl ester of acetic acid 115-95-7 DNEL 236,2 µg/cm² human, dermal industrial worker chronic - local effects
Linalyl ester of acetic acid 115-95-7 DNEL 236,2 µg/cm² human, dermal industrial worker acute - local effects

(±) - menthol 89-78-1 DNEL 66,28 mg/m³ human, inhalation industrial worker chronic - systemic effects
(±) - menthol 89-78-1 DNEL 66,28 mg/m³ human, inhalation industrial worker acute - systemic effects
(±) - menthol 89-78-1 DNEL 1 mg/m³ human, inhalation industrial worker chronic - local effects
(±) - menthol 89-78-1 DNEL 1 mg/m³ human, inhalation industrial worker acute - local effects
(±) - menthol 89-78-1 DNEL 9,4 bw/day human, dermal industrial worker chronic - systemic effects
(±) - menthol 89-78-1 DNEL 9,4 bw/day human, dermal industrial worker acute - systemic effects

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

Relevant PNEC- mixture components

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)

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)

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)

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)

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)

Linalyl ester of acetic acid 115-95-7 PNEC 0,011 mg/l aquatic organisms freshwater short-term (instant)
Linalyl ester of acetic acid 115-95-7 PNEC 0,001 mg/l aquatic organisms marine short-term (instant)
Linalyl ester of acetic acid 115-95-7 PNEC 1 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
Linalyl ester of acetic acid 115-95-7 PNEC 0,609 mg/kg aquatic organisms sediments freshwater short-term (instant)
Linalyl ester of acetic acid 115-95-7 PNEC 0,061 mg/kg aquatic organisms marine sediments short-term (instant)
Linalyl ester of acetic acid 115-95-7 PNEC 0,115 mg/kg terrestrial organisms soil short-term (instant)

(±) - menthol 89-78-1 PNEC 0,016 mg/l aquatic organisms freshwater short-term (instant)
(±) - menthol 89-78-1 PNEC 0,002 mg/l aquatic organisms marine short-term (instant)
(±) - menthol 89-78-1 PNEC 3,06 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
(±) - menthol 89-78-1 PNEC 0,201 mg/kg aquatic organisms sediments freshwater short-term (instant)
(±) - menthol 89-78-1 PNEC 0,02 mg/kg aquatic organisms marine sediments short-term (instant)
(±) - menthol 89-78-1 PNEC 0,031 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)

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	:	free-flowing, clear liquid, sometimes with solid sediment / mainly in the process of cooling.
Color	:	light yellow to yellow-brown liquid
Odor	:	Fragrant, sweet-fruity, citrus odor, reminding the odor of fresh bergamot pericarp, sometimes with oil - woody, grass fragrance.

Odor threshold	:	No data available
Esters content, such as linalyl acetate	:	22 - 36
Content of nonvolatile residue in %	:	4,5 – 6,4
Aldehydes such as decyl in %	:	4,5 – 6,5
Acid value, mgKOH/g	:	max. 2,0
Ester value, mgKOH/g	:	86 – 129,0
pH	:	No data available
Solubility in P_{85}% ethanol	:	1:1
Melting point/Freezing point	:	< -30°C (ECHA)
Flammability (solid subst., gas)	:	Flammable liquid according to GHS criteria
Boiling point / or initial boiling point	:	Not determined
Boiling point	:	Not determined
Flash point in ^{o}C	:	56°C (ECHA)
Evaporation rate	:	No data available
Upper flammability/ explosion limit	:	No data available
Lower flammability/ explosion limit	:	No data available
Vapor pressure at 20^{o}C	:	123,1 Pa at 25°C
Vapor density	:	No data available
Solubility(ies)	:	Soluble in glacial acetic acid, in most of the glyceride oils
Insoluble in	:	water, glycerin and propylene glycol

Partition coefficient n-octanol/water, log Pow	:	2,14 – 6,3 (ECHA)
Organic carbon in soil/water (log KOC)	:	≥1,69 – ≤4,9 (ECHA)
Autoignition temperature	:	235 °C at 1.019 hPa (ECHA)
Decomposition temperature	:	No data available
Explosivity	:	No data available
Oxidizing properties	:	No data available

Other information

Refractive index at n^{20}/d	:	1.459 -1.496
Relative density at d^{20}	:	0.876 - 0.894
Optical rotation at 20°C	:	+8.0 to +24.0
Temperature class (EU, ATEX compliant)	:	T3 Maximum permissible surface temperature of the equipment: 200°C

No other information available.

10. Stability and Reactivity

10.1. Reactivity

Note	:	It is a reactive substance. Risk of ignition.

When heated

Note	:	Risk of ignition. 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

Reacts violently with : strong oxidizer.

10.4. Conditions to avoid

Conditions to avoid : Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Thermal decomposition : No data available.

10.5. Incompatible materials

Materials to avoid : No additional data available.

10.6. Hazardous decomposition products

Hazardous decomposition products : Hazardous combustion products: see Section 5.

11. Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

CITRUS AURANTIUM BERGAMIA PEEL OIL
Oral LD50 > 10.000mg/kg rat ECHA
Dermal LD50 >20.000 mg/kg rabbit ECHA

D-Limonene (Cas: 5989-27-5)
Oral Route: Ld50= 4,400 - 5,10mg/kg
Species : Rat
Linalyl ester of acetic acid 115-95-7oral LD50 > 9.000 mg/kg rat
Linalyl ester of acetic acid 115-95-7 dermal LD50 > 5.000 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

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

Alpha-Terpineol
oral LD50 4.300 mg/kg rat ECHA

dermal LD50 >2.000 mg/kg rat ECHA

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

Citral
oral LD50 6.800 mg/kg rat ECHA
dermal LD50 >2.000 mg/kg rat ECHA

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

Terpineol
Oral LD50 4.300 mg/kg rat ECHA
dermal LD50 >2.000 mg/kg rat ECHA

Carvone
oral LD50 5.400 mg/kg rat ECHA
dermal LD50 >2.000 mg/kg rat ECHA

(-) - menthol 2216-51-5 oral LD50 3.300 mg/kg rat
(-) - menthol 2216-51-5 dermal LD50 >5.000 mg/kg rabbit
(-) - menthol 2216-51-5 inhalation (dust/mist) LC50 5.289 mg/m³/4h rat

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

Corrosion/Skin irritation

Citral
Causes skin irritation.

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

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

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

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

Alpha-Terpineol
Causes skin irritation.

Dermal LD50
alpha-Pinene > 5.000 mg/kg (rabbit)

Serious damage/eye irritation

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

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

Respiratory or skin sensitization

Carvone
May cause allergic skin reaction.

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.

Ingestion

Note : There is no specific hazard under normal use

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.

Myrcene IARC group 2B: possibly carcinogenic to humans (International Agency for Research on Cancer)

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

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

Note : Breathing high vapor concentrations can cause anesthetic effects. It can be fatal if swallowed and enters the respiratory tract.

Information on possible routes of exposure

Note : Dermal

Symptoms related to physical, chemical and toxicological characteristics

Note	:	In case of skin contact: causes skin irritation. May cause allergic reactions, itching, local redness. Inhalation hazard.

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

Note	:	Vapor exposure in excess of the specified occupational exposure limit may cause adverse health effects.

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 toxicological classification is made on the basis of the content information and available information.

11.2. Properties disturbing the functions of the endocrine system

Note	:	No information available

12. Ecological information

Note	:	Harmful to aquatic organisms with long lasting effect.

12.1. Toxicity - Marine pollutant.

Product:

Acute (short-term) toxicity:

Fish

(-) - menthol 2216-51-5 LC50 15,6 mg/l fish 96 h

Linalyl ester of acetic acid 115-95-7 LC50 11 mg/l fish 96 h

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

ß-pinene 18172-67-3 LC50 0,68 mg/l rainbow trout (Oncorhynchus mykiss) 96 h

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

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

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

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

Carvone
LC50 6,1 mg/l fish ECHA 96 h

Geranyl acetate
Static test LC50 - Leuciscus idus (Troutfish) - 68,12 mg/l -96 h

Toxic for Daphnia and other aquatic invertebrates

Linalyl ester of acetic acid 115-95-7 EC50 59 mg/l aquatic invertebrates 48 h

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

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

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

beta-Myrcene
EC50 - Daphnia magna (Daphnia) - 1,47 mg/l - 48 h (OECD Test Guideline 202)

Terpineol
EC50 73 mg/l aquatic invertebrates ECHA 48 h

Terpinolene 586-62-9 EC50 0,634 mg/l aquatic invertebrates 48 h
Citral
EC50 6,8 mg/l aquatic invertebrates ECHA 48 h

Carvone
EC50 38 mg/l aquatic invertebrates ECHA 48 h

Algae/aquatic plants

Linalyl ester of acetic acid 115-95-7 ErC50 62 mg/l algae 72 h
ß-pinene 18172-67-3 ErC50 0,7 mg/l Pseudokirchnerie lla subcapitata 72 h

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

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

Terpineol
ErC50 68 mg/l algae ECHA 72 h

Citral
ErC50 103,8 mg/l algae ECHA 72 h

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

beta-Myrcene
ErC50 - Pseudokirchneriella subcapitata (green algae) - 0,32mg/l - 72 h (OECD Test Guideline 201)

Carvone
ErC50 19 mg/l algae ECHA 72 h

Bacteria

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

Acetic acid linalyl ester 115-95-7 LC50 11,14 mg/l fish 20 h

Chronic (long-term) toxicity:

-pinene 18172-67-3
May cause long-lasting adverse effects in the aquatic environment

Fish

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

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

Citral
EC50 160 mg/l microorganisms ECHA 30 min

12.2. Persistence and degradability

Product:

Abiotic degradation

Degradation of mixture components

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

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

Terpinolene 586-62-9 oxygen depletion 81 % 28 d ECHA

Myrcene 123-35-3
oxygen depletion 76 % - 28 d

Carvone - oxygen depletion 90 % 28 d

Linalyl ester of acetic acid 115-95-7 oxygen depletion ≥0 – ≤10 % 1 d ECHA

(-) - menthol 2216-51-5 oxygen depletion 64 % 7 d ECHA

Physical and photo-chemical elimination		
Note	:	No data available

Biochemical degradation		
Note	:	Biodegradation expected

12.3. Bioaccumulation

Product:	No data available

Bioaccumulation potential of mixture components:

DL-α-pinene 80-56-8 Log KOW 4,83

(-) - menthol 2216-51-5 ≥0,5 – ≤15 3,15 (25 °C)

Terpinolene 586-62-9 4,47

DL-limonene Log KOW 4,57

Myrcene Log KOW 4,82 (pH value:~6,5, 30 °C)

Citral log KOW 2,76 (25 °C) (ECHA)

Beta-Caryophyllene log KOW 6,23 (pH value: 7, 25 °C) (ECHA)

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

Linalyl ester of acetic acid 115-95-7 BCF 174, Log Kow 3,9 (25 °C)

Carvone - n-octanol/water (log KOW) 2,74 (ECHA)

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

12.4. Mobility in soil

Product:		
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 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 disposal of products in streams, sewer systems or other water routes.

13. Disposal Considerations

13.1. Waste treatment methods

13.1.1. **Disposal of product/packing**

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

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 3 Flammable
HP 4 irritant - skin irritation and eye damage
HP 5 specific target organ toxicity (STOT)/aspiration hazard
HP 13 sensitizing
HP 14 toxic to the environment

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

ADR/RID/ADN UN	UN 1993
IMDG Код	UN 1993
ICAO-TI	UN 1993

14.2. UN proper shipping name

ADR/RID/ADN	FLAMMABLE LIQUID, N.O.S.
IMDG Код	FLAMMABLE LIQUID, N.O.S.
ICAO-TI	Flammable liquid, n.o.s.
Technical name (hazardous ingredients)	Bergamot oil D-(+)-Limonene, Terpinolene

14.3. Transport hazard class(es)

ADR/RID/ADN	3
IMDG Код	3
ICAO-TI	3

14.4. Packing group

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

14.5. Environmental hazards

Hazardous to the aquatic environment

Environmentally hazardous substance
(aqueous environment): D-(+)-Limonene

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	FLAMMABLE LIQUID, N.O.S.
Details in the transport document	UN1993, FLAMMABLE LIQUID, N.O.S. (Bergamot oil) (contains: D-(+)-limonene, terpinolene) 3, III, (D/E), environmental hazard
Classification code	F 1
Hazard label(s).	3, "Fish and wood"

Environmental hazards	yes (Harmful to aquatic life)
Special provisions (SP)	274, 601
Excluded quantities (EQ)	E1
Limited quantities (LQ)	5 L
Transport category (TC)	3
Tunnel restrictions code (TRC)	D/E
Identif. Hazard No	30

International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name	FLAMMABLE LIQUID, N.O.S.
The details as per the shipper's declaration	UN1993, FLAMMABLE LIQUID, N.O.S., (Oil of bergamot), (contains:D-(+)-Limonene, Terpinolene) 3,

	III, 56°C c.c., MARINE POLLUTANT
Marine pollutant	yes (Harmful to aquatic life)
Hazard label(s).	3, "Fish and wood"

Special provisions (SP)	223, 274, 955
Excluded quantities(EQ)	E1
Limited quantities(LQ)	5 L
EmS	F-A, S-E
Storage category	A

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

Proper shipping name	Flammable liquid, n.o.s.
The details as per the shipper's Declaration	UN1993, Flammable liquid, n.o.s., (Oil of bergamot), (contains: D-(+)-Limonene, Terpinolene) 3, III
Environmental hazards	yes (Harmful to aquatic life)
Hazard label(s).	3

Special provisions (SP)	A3
Excluded quantities (EQ)	E1
Limited quantities (LQ)	10 L

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 bergamot	This product meets the criteria for classification according to Regulation No. 1272/2008/EC		**R3**	**3**
Oil of bergamot	flammable / pyrophoric		**R40**	**40**
Oil of bergamot	substances in tattoo inks and permanent makeup		**R75**	**75**
Linalyl ester of acetic acid	substances in tattoo inks and permanent makeup		**R75**	**75**
Myrcene	flammable / pyrophoric		**R40**	**40**
Myrcene	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**
β- caryophyllene	substances in tattoo inks and permanent makeup		**R75**	**75**
DL-α-pinene	flammable / pyrophoric		**R40**	**40**
ß-pinene	flammable / pyrophoric		**R40**	**40**
ß-pinene	substances in tattoo inks and permanent makeup		**R75**	**75**
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 are 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**
P5c	Flammable liquid (cat. 2, 3)	**5.000**	**50.000**	**51)**

Notation
51) Flammable liquids, category 2 or 3, not covered by P5a and P5b

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
Myrcene	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)	
Citral	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	Citrus Aurantium Bergamia Peel Oil, A-Pinene, Citral, Geranyl Acetate, Limonene, Menthol, B-Pinene, Terpinolene, Beta-Caryophyllene, Carvone, Linalyl Acetate, Alpha - Terpineol, Beta - Myrcene
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	Citrus Aurantium Bergamia Peel Oil, A-Pinene, Limonene, B-Pinene, Beta - Myrcene
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	Citrus Aurantium Bergamia Peel Oil, A-Pinene, Citral, Geranyl Acetate, Limonene, Menthol, B-Pinene, Terpinolene, Beta-Caryophyllene, Carvone, Linalyl Acetate, Alpha - Terpineol, 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	Citrus Aurantium Bergamia Peel Oil, A-Pinene, Geranyl Acetate, Limonene, B-Pinene, Terpinolene

National inventories

State	List	Status

AU	AICS	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
KR	KECI	all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	all ingredients are listed
TW	TCS	all ingredients are listed
US	TSCA	substance is listed as "ACTIVE"

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)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
KECI	Korea Existing Chemicals Inventory
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]

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 allergen values based on new gas-chromatographic analysis, change of classification 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)
Asp Tox 1	Inhalation hazard
Aquatic Chronic 3	hazardous to the aquatic environment - chronic 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
Eye irrit. 2A	Eye irritation
EmS	Emergency Schedule
Flammable Liquids. 3	Flammable liquids
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" ", developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
log KOW	n-octanol/water
MARPOL	International Convention on Prevention of Pollution from Ships (abbr. to "Marine Pollutant)
NLP	A substance that no longer has the properties of a polymer
PBT	Persistent, bioaccumulative and toxic

PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulation on Carriage of Dangerous Goods by Rail)
Corrosion/irritation 2	Skin irritation
Skin Sens.	Skin sensitization
vPvB	very Persistent and very Bioaccumulative
EO 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 2015/830/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**
H226	Flammable liquid and vapour.
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
H412	Harmful to aquatic life with long-lasting effect
EUH208	Contains Citral, Limonene, Alpha Pinene, Beta Pinene, Terpinolene, Beta-Caryophyllene Carvone, Linalyl Acetate, Menthol, Alpha Terpineol, Geranyl Acetate, beta-Myrcene. May cause allergic reaction.
	List of instructions for safe treatment, used in the safety document
P102	Keep away from children
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P241	Use explosion-proof electrical/ventilating/lighting/…/ equipment.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P262	Do not get in eyes, on skin, or on clothing.
P264	Wash hands thoroughly after handling.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release in the environment
P280	Use protective gloves/protective clothing/protective goggles/protective facial mask.

P284	[In case of inadequate ventilation] wear respiratory protection.
P301 + P310	IF SWALLOWED: Immediately call the TOXICOLOGY CENTRE or a physician.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
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.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P302 + P352	IF CONTACT WITH SKIN: Wash with plenty of soap and water
P331	Do NOT induce vomiting.
P333 + P313	In case of skin irritation or skin rash: Seek medical advice / assistance.
P391	Collect the spillage.
P403 + P235	Store in a well-ventilated place. Keep cool.
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.

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 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 Bergamot Oil (CITRUS AURANTIUM BERGAMIA PEEL OIL ORGANIC) – v.02/05.11.2023

	NAME OF SUBSTANCES	REMARK	CAS No.	EINECS No.	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*	*0,4*	-	*0,4*
11	*CITRONELLOL*	*H315; H317 H411*	*106-22-9*	*203-375-0*	-	-	-
12	*COUMARIN*	*H302; H317*	*91-64-5*	*202-086-7*	-	-	-
13	*EUGENOL*	*H319; H317*	*97-53-0*	*202-589-1*	-	-	-
14	*FARNESOL*	*H315; H319*	*4602-84-0*	*225-004-1*	-	-	-
15	*ALPHA-ISOMETHYL IONONE*	*H412*	*127-51-5*	*204-846-3*	-	-	-
16	*GERANIOL*	*H315; H317*	*106-24-1*	*203-377-1*	-	-	-
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*	*41,4*	-	*41,4*
22	*LINALOOL*	*H315*	*78-70-6*	*201-134-4*	-	-	-
23	*HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE (LYRAL)*	*H317*	*31906-04-4*	*250-863-4*	-	-	-
24	*METHYL 2-OCTYNOATE*	*H302; H317*	*111-12-6*	*203-836-6*	-	-	-
25	*EVERNIA FURFURACEA LICHEN EXTRACT (TREEMOSS EXTRACT)*	*H317*	*90028-67-4*	*289-860-8*	-	-	-
26	*EVERNIA PRUNASTRI (OAK MOSS)*	*H317*	*90028-68-5*	*289-861-3*	-	-	-
27	*ALPHA PINENE*	*H226; H304 H315; H317 H400*	*80-56-8*	*201-291-9*	*2,5*	-	*2,5*
28	*BETA PINENE*	*H226; H304 H315; H317 H400*	*127-91-3*	*204-872-5*	*6,3*	-	*6,3*
29	*TERPINOLENE*	*H317; H304 H400; H410*	*586-62-9*	*209-578-0*	*8,6*	-	*8,6*
30	*BETA-CARYOPHYLLENE*	*H304; H317*	*99-86-5*	*202-795-1*	*1,1*	-	*1,1*
31	*CARVONE*	*H317*	*6485-40-1*	*229-352-5*	*0,1*	-	*0,1*
32	*LINALYL ACETATE*	*H319; H317*	*115-95-7*	*204-116-4*	*24,2*	-	*24,2*

		H315					
33	*MENTHOL*	*H315; H319*	*2216-51-5*	*218-690-9*	*0,3*	-	*0,3*
34	*TERPINEOL*	*H315; H319*	*98-55-5* *586-81-2*	*202-680-6* *586-81-2*	*0,3*	-	*0,3*

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