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MATERIAL SAFETY DATA SHEET

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

Organic Sweet Orange Oil

Version 03 | Date of creation: 15.07.2020
Supersedes the version from: 29.08.2022 | Date of new version: 10.04.2024

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

1.1. Product Identifiers

Trade name	:	Organic Sweet Orange Oil
Substance name (INCI)	:	CITRUS AURANTIUM DULCIS PEEL OIL
REACH Registration number	:	-
CAS No	:	8008-57-9
EO No	:	-
ISO	:	ISO 3140:2019
Biological origin	:	Obtained from the fruit peels of sweet oranges of The species Citrus sinensis (L.) Osbeck = C.vulgaris Risso ssp. sinensis = C.auranthium L. var dulce (var.sinensis). The oil is extracted from the fruit peels by pressing without heating.

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

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

1.3. Details of the supplier of the safety data sheet

Manufacturer : ALTEYA ORGANICS LLC
Mailing address/Postal code : 6167, village of Yagoda,1, Rozovarna St.
Country identifier/
Postal code/city or town : Bulgaria
Telephone/Mobile/Fax : +359 700 15 502
E-mail of the competent person responsible for the Safety Data Sheet : salesbg@alteya.com
National contact person : Kaloyan Stoev

1.4. Emergency telephone number

Clinic of Toxicology at MPHATEM N.I. Pirogov
Emergency telephone number: 02 9154409; (regular working time, Saturdays and Sundays excluded) or 02 9154 346 (24h service, all week)
e-mail: poison_centre@mail.orbitel.bg
http//www.pirogov.net, tel. 112

2. Hazards Identification

2.1. Classification of the substance or mixture

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

Classification according to GHS				
Chapter	**Subsection**	**Class of hazard**	**Class of hazard and category of hazard**	**Hazard statements**
2.6	Flammable	Flammable liquids	Flammable Liquids. 3	H226
3.2	Skin	Skin irritation	Corrosion/irritation 2	H315
3.4	Sens.	Sensitization — skin	(Skin sens 1)	H317
3.10	Inh.	Inhalation hazard	(Asp Tox 1)	H304
4.1	Chronic	Hazardous to the aquatic environment	Aquatic Chronic 2	H411

2.1.2. Additional information:

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

2.2. Label Elements

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

Hazard pictograms

GHS02 GHS07 GHS09

Signal word : Attention

Hazard statements : H226 Flammable liquid and vapors
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H317 May cause an allergic skin reaction

H411 Toxic to aquatic life with long lasting effects
EUH 208 Contains Limonene, Linalool, Alpha-Pinene, Alpha-Terpineol, beta-Myrcene, Sabinene. May cause an allergic reaction.

Safety recommendations

Safety recommendations

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children

Safety recommendations

- Prevention :

P210	Keep away from heat, hot surfaces, sparks, naked flames and other sources of ignition. Smoking is not permitted.
P262	Avoid contact with eyes, skin or clothing.
P233	Keep container tightly closed.
P264	Wash hands thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Safety recommendations

- As a reaction :

P301+P310	IF SWALLOWED: Immediately call a doctor
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P302 + P352	IF ON SKIN: Wash with plenty of water/…
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Remove contaminated clothing and wash before reuse
P391	Collect spillage.

Safety recommendations

- If stored

P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up

Safety recommendations

- At disposal :

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

Other hazards

The mixture does not contain substances that cause endocrine disruption according to the criteria defined in Commission Delegated Regulation (EU) 2017/2100 or in Commission Regulation (EU) 2018/605.

The mixture does not contain any substances meeting the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No 1907/2006 (REACH) and its amendments.

3. Composition/information on ingredients

3.1. Substances /Mixture – *The main hydrocarbon in the oil is limonene, and from the others: myrcene, sabinene, etc.*

INGRIDIENT	***IDENTIFIERS***	***%***	***CLASSIFICATION***
CITRUS AURANTIUM DULCIS PEEL OIL	*EINECS NO: -* *CAS NO: 8008-57-9*	*100,0*	 *WARNING* *Flam. Liq. 3 – H226* *Skin Irrit. 2 – H315* *Skin Sens. 1B H317* *Aquatic Acute 1 – H400* *Aquatic Chronic 1 – H410*
LIMONENE	*Index: 601-029-00-7* *CAS: 138-86-3* *EC: 205-341-0*	*84,0 ≥ 97,0*	*Flam. Liq. 3, H226* *Skin Irrit. 2, H315* *Skin Sens. 1, H317* *Aquatic Acute 1, H400 (M=1)* *Aquatic Chronic 1, H410 (M=1)*
α-PINENE (cf. Terpenes)	*EINECS NO: 201-291-9* *CAS NO: 80-56-8*	*Up to 1,5*	*Flam. Liq. 3, H226* *Acute Tox. 4, H302* *Asp. Tox. 1, H304* *Skin Irrit. 2, H315* *Skin Sens. 1, H317* *Aquatic Acute 1, H400 (M=1)* *Aquatic Chronic 1, H410 (M=1)*
MYRCENE	*EINECS NO: 204-622-5* *CAS NO: 123-35-3*	*1,0 ≥ 4.0*	*Flam. Liq. 3, H226* *Skin Irrit. 2, H315* *Eye .irrit, Cat. 2A; H319* *Asp. Tox. 1, H304* *Aquatic Acute 1, H400 (M=1)* *Aquatic Chronic 1, H410 (M=1)*
LINALOOL	*EINECS NO: 201-134-4* *CAS NO: 78-70-6*	*≤ 1,0*	*Eye Irrit. 2A (H319)* *Skin Sens. 1B (H317)* *Skin Irrit. 2 (H315)*
OCTANAL	*EINECS NO: 204-683-8* *CAS NO: 124-13-0*	*Up to 2,0*	*Flam. Liq. 3 - H226* *Skin Irrit. 2 – H315* *Eye .irrit, Cat. 2A; H319* *Aquatic Chronic 4, H412*

ALPHA - TERPINEOL	*EINECS NO: 202-680-6* *CAS NO: 98-55-5*	*0,1 – 1,0*	*Skin Irrit. 2 / H315* *Eye .irrit, Cat. 2A; H319*
DECANAL	*EINECS NO: 203-957-4* *CAS NO: 112-31-2*	*0,08 – 0,7*	*Eye .irrit, Cat. 2A; H319*
SABINENE	*EINECS NO: 222-212-4* *CAS NO: 3387-41-5*	*0,02- 0,7*	*Flam. Liq. 3, H226* *Acute Tox. 4, H302* *Skin Irrit. 2, H315* *Eye .irrit, Cat. 2A; H319* *STOT SE 3 H335*

Substance name	**Identifier**	**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
Sabinen	CAS No 3387-41-5 EO No 222-212-4			301 mg/kg	

4. First Aid Measures

4.1. Description of first aid measures

- General notes : If you feel unwell, seek medical attention (show the label if possible).

- Following inhalation : Move the exposed person immediately from the source of exposure to fresh air. If symptoms persist, seek medical attention.

Following skin contact : Remove contaminated clothing immediately. Wash the skin thoroughly with soap and water for several minutes. Be careful of product residue between skin and clothing, watches, shoes, etc. In case of an allergic reaction, seek medical help. A known photosensitizer.

- Following eye contact : Rinse immediately with plenty of water for up to 15 minutes by removing the contact lenses. Seek medical attention immediately. Continue rinsing.

- Following ingestion : Not an expected route of exposure. In case of ingestion, if the amount is small (not more than one bite), rinse the mouth with milk or water and consult a doctor. Keep the exposed person at rest. DO NOT force vomiting unless

directed by medical personnel. Seek immediate medical attention and show the label of the substance to medical personnel.

- Self-protection of first aid provider : No data available.

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

- Following eye contact : May cause eye irritation and corneal damage if not rinsed immediately.
- In case of contact with : Remove contaminated clothing immediately. Wash the skin thoroughly with soap and water for several minutes. In case of redness or irritation, call a doctor. A known photosensitizer.
- Following inhalation : Breathing high vapor concentrations may cause anesthetic effects.
- Following ingestion : Not an expected route of exposure.

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

Treatment : There is no specific antidote.
Treat symptomatically.

5. Fire-fighting Measures

5.1. Extinguishing media

Suitable extinguishing media : CO_2, alcohol-resistant foam, powder, water spray

Unsuitable extinguishing media : water jet (straight stream).

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products : In case of fire, carbon monoxide (CO), carbon dioxide (CO_2), smoke and soot may be released

Specific hazards during fire-fighting : Containers can build up pressure when exposed to heat (fire).

5.3. Advice for firefighters

Special protective equipment for firefighters	:	Wear self-contained breathing apparatus and full protective clothing to minimize skin exposure. Avoid inhaling vapors.
Additional information	:	Extinguish the fire with the usual precautions from a reasonable distance. Do not use a full water stream in order to prevent fire from spreading. Cool the containers in danger with water spray. Separately collect the contaminated water from the fire extinguishing. It should not go down the drain. Dispose of fire debris and contaminated fire water in accordance with official regulations.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For personnel not responsible for emergencies

Personal precautions, protective equipment and procedures	:	Remove all sources of ignition. Wear protective equipment. Keep unprotected persons away. Avoid inhalation, contact with skin and eyes. Provide adequate ventilation. Evacuate all unnecessary personnel.

6.1.2. For the persons responsible for emergencies

Stop the leak if you can do so without risk. Wear personal protective equipment. Ensure adequate ventilation. Unprotected persons are not allowed. Avoid contact with eyes and skin. Avoid breathing fumes. Keep ignition sources away.

6.2. Environmental precautions

Environmental Precautions	:	Do not allow it seeps into the ground/soil. Do not allow

the product to reach drains or bodies of water. Inform the relevant authorities in case of leakage into water bodies or sewage system. Do not allow it to enter drains/surface or ground water.

6.3. Methods and materials for containment and cleaning up

6.3.1. For containment	:	Wipe up small amounts with absorbent material such as cloth or pulp. Water and detergent. Absorb with non-flammable liquid binder material (sand, diatomite, universal binders).
6.3.2. For cleanup	:	Wash thoroughly after dealing with the spill. Dispose of contaminated material as waste according to "Disposal Considerations".
6.3.3. Other information	:	Label containers containing waste.

6.4. Reference to other sections

See information in sections 7, 8 и 13.

7. Handling and Storage

7.1. Precautions for safe handling

Precautions	:	Provide good ventilation/extraction at the workplace. Avoid the formation of aerosols. Maintain good professional and personal hygiene. Avoid inhalation and contact with skin and eyes. Wear protective clothing and use safety glasses. Avoid inhalation.
Fire-fighting measures	:	Smoke may combine with air to form an explosive mixture. Wetted solids (e.g. cloth, cellulose, filter panel, binder) should be stored hermetically closed and/or soaked and properly disposed of. Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
Measures to avoid transformation into aerosols and powder	:	Ensure adequate ventilation of the working area.
Environmental precautions	:	Do not allow it to enter drains or water. In case of penetration into water or sewerage, inform the competent authorities.

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

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions	:	The requirements related to storage premises apply to all premises where the substance is handled. Store in well-sealed original containers away from sources of ignition and in a cool place. Avoid contact with incompatible materials that support combustion, such as strong oxidizers. Keep away from food and drink, including for animals. Keep away from all sources of ignition - no smoking. Keep away from all sources of ignition, heat and direct sunlight. Avoid the build-up of electrostatic charges.
Packing materials	:	It is packed in galvanized barrels that must be full, or in containers with an internal varnish coating, or glass containers. If you transfer the product it must be in packaging made of identical material to the original. Keep containers tightly closed in a dry and well-ventilated place.
Requirements to storage areas or containers	:	Store in a dark, cool and ventilated room and closed containers. Storage at: 5≤ 25°C.
Storage class	:	No information
Classification according to Betriebssicherheitsverordnung		Flammable liquid
Recommendations for fire and explosion protection	:	Work in well-ventilated areas. Prevent formation of flammable or explosive concentrations in air and avoid vapor concentrations above occupational exposure limits. Never inhale this substance. Prevent the build-up of electrostatic charges with ground connections. Use the mixture in areas free of open flames or other sources of ignition and ensure that electrical equipment is properly protected. Keep packages tightly closed and away from sources of heat, sparks and open flames. Do not use tools

that may cause sparks. No smoking. Prevent unauthorized personnel access.

Recommendations for primary storage	:	**It is recommended that the packaging and storage conditions according to БДС ISO 210:2023 are observed.**

7.3. Specific end use(s)

Recommendations	:	Read the label before use.
Solutions specific to the industrial sector	:	No information available.
Specific use(s)	:	Used in perfumery and cosmetics by itself or as a formulation constituent, included in a composition.
Additional information	:	Follow the regulation relative to the application: • The cosmetics product regulations if advertised as cosmetics (for instance perfume, highly diluted essential oils for use on the body as massage oils or bath supplements).

8. Exposure controls/Personal protection equipment

8.1. Control parameters

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

Other occupational exposure limit values

Information on monitoring procedures
Relevant DNEL- mixture components

Limonene
D-(+)-limonene 5989-27-5 DNEL 66,7 mg/m³ human, inhalation industrial worker chronic - systemic effects
D-(+)- limonene 5989-27-5 DNEL 9,5 mg/kg bw/day human, dermal industrial worker chronic – systemic effects

Linalool 78-70-6 DNEL 2,8 mg/m³ human, inhalation industrial worker chronic - systemic effects
Linalool 78-70-6 DNEL 16,5 mg/m³ human, inhalation industrial worker acute - systemic effects
Linalool 78-70-6 DNEL 2,5 mg/kg bw/day human, dermal industrial worker chronic - systemic effects
Linalool 78-70-6 DNEL 5 mg/kg bw/day human, dermal industrial worker acute - systemic effects

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

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)

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)

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)

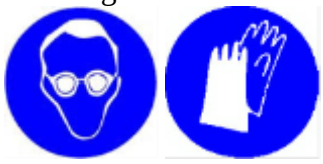
DL-α-pinene 80-56-8 PNEC 0,606 µg/l aquatic organisms freshwater short-term (instant)
DL-α-pinene 80-56-8 PNEC 0,061 µg/l aquatic organisms marine short-term (instant)
DL-α-pinene 80-56-8 PNEC 0,2 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)
DL-α-pinene 80-56-8 PNEC 157 µg/kg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

8.2. Exposition controls

8.2.1. Appropriate engineering control

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. Good personal hygiene practices are always recommended, especially when handling chemicals/oils.



8.2.2. Personal protective equipment:

8.2.2.1. 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.

8.2.2.2. Skin protection
Hand protection : Wear suitable gloves. Chemical protection gloves that have been tested in accordance with EN 374 are suitable. For special purposes, it is recommended 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.
		
8.2.2.3. 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).
8.2.2.4. Thermal hazards	:	Unknown
8.2.3. Environmental exposure control	:	Protect against contamination of drains, surface water and ground water.
Measures related to substance/ mixture required to avoid exposition	:	No data available.
Training measures required to avoid exposure	:	Staff training as per internal schedule.
Organization measures to avoid exposure	:	Staff training
Technical measures to avoid exposure	:	Staff training

Environmental exposure controls

Basic guidelines	:	Do not wash off into surface water

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance/type	:	clear mobile liquid, at 20ºC and slightly cloudy mobile liquid at -25ºC after 72 hours.
Colour	:	yellowish orange to dark orange liquid
Odour	:	sweet, fresh, citrusy, typical of orange peels

Odor threshold	:	No information
pH	:	No information
Freezing point in °C	:	No information
Melting point in °C	:	No information
Boiling point	:	The substance begins to boil at 160ºC. /Echa dossier/
Boiling point / boiling range	:	No information
Ignition temperature, in °C	:	56°C ± 2.0
Ester value, mgKOH/g	:	No information
Evaporation rate	:	No information
Flammability (solid substance, gas)	:	No information
Upper flammability/explosion limit	:	No information
Lower flammability/explosion limit	:	No information
Vapour pressure at 25°C	:	186.4 Pa /Echa dossier/
Solubility (s)	:	Soluble in carbon sulphide, glacial acetic acid and anhydrous ethyl alcohol.
Insoluble in	:	water / 3.48 - 1767.3 mg/l at 25ºC. /Echa dossier/
Partition coefficient n-octanol/water Log/Pow	:	The octanol-water partition coefficient of the orange oil constituents is above 4.0 for more than 80% of the composition. With a log Kow of 4.83 (foreseen) or 4.38 (measured), limonene represents the high log Kow group. /Echa dossier/
Auto-ignition temperature	:	235ºC /Echa dossier/
Decomposition temperature	:	No information
Viscosity	:	The dynamic and kinematic viscosities of the substance are 0.99 mPa*s and 1.17 mm^2/s at 20ºC respectively. /Echa dossier/

Explosive properties	:	No information
Oxidizing properties	:	No information

Other information

Refraction index at 20°C	:	1.468 – 1.478
Relative density at d^{20} at 20°C	:	0.842 up to 0.856

No other information available.

10. Stability and Reactivity

10.1. Reactivity

Advice	:	Stable under recommended operating and storage conditions.

10.2. Chemical stability

Note	:	Stable under recommended operating and storage conditions.

10.3. Possible hazardous reactions

Hazardous reactions	:	Formation of an explosive gas mixture with air is possible. In case of unfavorable storage conditions (air leakage, heat build-up) self-ignition of moistened solids (e.g. cloth, cellulose, filter panel, binder) is possible. Reacts violently with oxidizing agents.

10.4. Conditions to avoid

Conditions to avoid	:	Avoid heat, sparks and open flame. Avoid exposure to air.
Thermal decomposition	:	Heating causes evaporation and the formation of a flammable atmosphere is possible.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

Hazardous decomposition products : Hazardous decomposition products are not expected under intended use.

11. Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Orange Oil
Oral ATE 29060 mg/kg - Value calculation (based on components) GCMS ANALYSIS
D-Limonene (Cas:5989-27-5)
Oral Route: Ld50 = 4,400 - 5,10mg/Kg
Species : Rat

Oral LD50 p-Cymene 1.400 mg/kg (rat)

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

Alpha-Terpineol
oral LD50 4.300 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
LD50 Skin - Rabbit - > 5.000 mg/kg (OECD Test Guideline 402)

Sabinen
oral LD50 301 – 2.000 mg/kg rat ECHA
Sabinen 3387-41-5 oral 301 mg/kg

Decanal
Oral route: DL50 = 3750 mg/kg

Octanal
LD50 Oral - Rat - male - 4.617 mg/kg
LC50 Inhalation - Rat - male - > 0,83 mg/l
LD50 Skin - Rabbit - male - 5.207 mg/kg
Notes: (ECHA)

Decanal
Acute toxicity
LD50 Oral - Mouse - > 41.750 mg/kg
Notes: Behavioral: excitability.
Diarrhea
Skin and skin appendages: other: hair.
Inhalation: No information
LD50 Skin - Rabbit - 5.040 mg/kg
Notes: (RTECS)

Notes : Irritating to skin and mucous membranes. May be harmful if swallowed.
Based on available information, orange oil has been proven to have low acute toxicity when applied orally and dermally. Therefore, the substance orange oil does not need to be classified for acute toxicity according to the criteria set out in Annex I to 1272/2008/EC (CLP/EU-GHS).

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

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)

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

Alpha-Terpineol
Causes skin irritation.

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

Sabinen
Causes skin irritation.

Octanal
Skin - rabbit
Result: Skin irritation - 4 h
(Regulation (EC) No 440/2008, Annex, B.4)

Notes : Prolonged contact may cause redness and skin irritation.

Serious damage /Eye irritation

Result : Serious eye damage. May have irreversible effects on the eyes, such as tissue damage in the eye or serious physical deterioration of vision that is not fully reversible by the end of the 21-day observation. Serious eye damage is characterized by corneal destruction, permanent corneal opacity, and iritis.

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.

beta-Myrcene
Eyes - Rabbit
Result: Eye irritation
(OECD Test Guidelines 405)

Sabinen
Causes serious eye irritation.

Octanal
Eyes - Rabbit
Result: Eye irritation - 14 d
Notes: (ECHA)

Decanal
Eyes - Rabbit
Result: Eye irritation
(Regulation (EC) No 440/2008, Annex, B.5)

Respiratory or skin sensitization

Sweet Orange Oil (Echa)
Skin irritation: does not irritate (OECD404), although some effects have been noted.
Skin irritation: does not irritate (OECD405)

Note : May cause an allergic skin reaction. Possible sensitization by skin contact

Ingestion

Note : May be harmful if swallowed.

Mutagenicity of germ cells

Note : - Gene mutation in bacteria: (Bacterial Reverse Mutation Assay/Ames) (according to OECD 471): not mutagenic.
- In vitro mammalian chromosomal aberration test (equivalent or similar to OECD 473): not clastogenic without metabolic activation.
- In vitro mammalian cell gene mutation test (according to OECD 476): negative.

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

STOT (specific target organ toxicity) — single exposure		
Note	:	no data

STOT (specific target organ toxicity) — repeated exposure		
Note	:	/Echa dossier/ Repeated dose toxicity: orally A weight-of-evidence approach 6-month repeated dose toxicity study in dogs: LOAEL 1000 mg/kg body weight/day 90-day repeated dose toxicity study in mice: LOAEL 1000 mg/kg body weight/day 90-day repeated dose toxicity study in rats: LOAEL 1200 mg/kg body weight/day supporting 6-month repeated-dose toxicity study in dogs: LOAEL 1000 mg/kg body weight/day

Reproductive toxicity		
Note	:	/Echa dossier/ Developmental toxicity study in rats: no teratogenic effect, maternal and developmental NOAEL 591 mg/kg body weight/day Developmental toxicity study in rabbits: not teratogenic, maternal NOAEL 250 mg/kg body weight/day, developmental NOEAL 1000 mg/kg body weight/day Developmental toxicity study in mice: no teratogenic effect, maternal and developmental NOAEL 591 mg/kg body weight/day Based on the available information, there is no sufficient evidence to classify orange oil for developmental toxicity in accordance with the criteria set out in Annex I of 1272/2008/EC (CLP/EU-GHS).

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

Information on possible routes of exposure		
Note	:	No data.

Symptoms related to physical, chemical and toxicological characteristics		
If swallowed	:	vomiting, nausea, gastrointestinal complaints, risk of aspiration
If eye contact	:	slightly irritating but not suitable for classification
If inhaled	:	slightly irritating but not suitable for classification
If skin contact	:	causes skin irritation, may cause an allergic reaction, itching, local redness

Delayed and immediate effects as well as chronic effects from short and long-term exposure		
Note	:	Exposure to vapors above the specified occupational exposure limit may cause adverse health effects, such as mucosa, membrane and respiratory tract irritation and adverse effects on the kidneys, liver and central nervous system. Repeated or prolonged contact with the substance may result in the removal of natural oil from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. Splashes in the eyes may cause irritation and reversible damage.

Interactions		
Note	:	Toxicological characteristics are not comprehensively studied

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

Mixtures		
Note	:	Toxicological characteristics are not comprehensively studied

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

Other information		
Note	:	RTECS: RI8600000

11.2. Properties disturbing the functions of the endocrine system

Note : No information available

12. Ecological information

Note : Toxic to aquatic organisms with a long-lasting effect.
The product must not be discharged into drains or waterways.

12.1. Toxicity

Product:

Acute (short-term) toxicity:

Fish

LINALOOL (CAS:78-70-6)
Fish toxicity: duration of exposure: 96h
Lc50=27.8mg/l
Species: oncorhynchus mykiss
Oecdguideline 203 (fish,acute toxicity test)
DL-α-pinene 80-56-8 LC50 0,303 mg/l fish 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
semi-static test LC50 - Danio rerio (zebra fish) - 62,3 mg/l - 96 h
(OECD Test Guideline 203)

Octanal
semi-static test - Poecilia reticulata (Small tropical fish – Guppy) - 7,9 mg/l - 14 d
(OECD Test Guideline 204)

Decanal
semi-static test LC50 - Oncorhynchus mykiss (Canadian trout) - 1,45 mg/l - 96 h
(OECD Test Guideline 203)

Toxic for Daphnia and other aquatic invertebrates

LINALOOL(CAS:78-70-6)
Crustacean Toxicity *Duration Of Exposure: 48h*
Ec50=59mg/L
Species: Daphnia Magna
Oecdguideline 202 (Daphnia Sp.Acute)

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

Terpineol
EC50 73 mg/l aquatic invertebrates ECHA 48 h
static test EC50 - Daphnia magna (Water flea) - 83,3 mg/l - 48 h
(OECD Test Guideline 202)

Decanal
semi-static test EC50 - Daphnia magna (Water flea) - 1,17 mg/l -48 h
(OECD Test Guideline 202)
static test NOEC - Daphnia magna (Water flea) - 0,588 mg/l - 48 h
(OECD Test Guideline 202)

Algae/aquatic plants

LINALOOL (CAS:78-70-6)
Immobilisation Test
Algae Toxicity: *Duration Of Exposure :96h*
Ecr50=88.3mg/L
Species: Desmodesmus Subspicatus Other Guideline

Terpineol
ErC50 68 mg/l algae ECHA 72 h
static test ErC50 - Pseudokirchneriella subcapitata (algae) - 124 mg/l - 72 h
(OECD Test Guideline 201)
static test NOEC - Pseudokirchneriella subcapitata (algae) - 3,2 mg/l - 72 h
(OECD Test Guideline 201)

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

Octanal
static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 4,5 mg/l - 72 h
(OECD Test Guideline 201)

static test NOEC - Pseudokirchneriella subcapitata (green algae) - 0,759 mg/l - 72 h
(OECD Test Guideline 201)

Bacteria

Linalool
EC50 >100 mg/l microorganisms ECHA 30 min

Chronic (long-term) toxicity:

Note : no data

Fish

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

Shellfish

Limonene
EC50 188 µg/l aquatic invertebrates ECHA 21 d

Algae/aquatic plants

Note : no data

Other organisms

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

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

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

Sabinen oxygen depletion 36 % 28 d

Octanal
abiotic - Exposure time 28 d
Result: 75 % - Easily biodegradable.
(OECD Test Guideline 301F)

Alpha-Terpineol
abiotic - Exposure time 28 d
Result: 80 % - Easily biodegradable.
(OECD Test Guideline 310)

Decanal
Result: - Easily biodegradable.
(OECD Test Guideline 301F)

Physical and photo-chemical elimination

Note	:	no data

Biochemical degradation

Note	:	no data

12.3. Bioaccumulation

Product: no data available

Bioaccumulation of the mixture components:

DL-α-pinene 80-56-8 Log KOW 4,83

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

DL-limonene 138-86-3 Log KOW 4,57

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

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

Partition coefficient n-octanol/water (log Kow)		
Note	:	no data

Bioconcentration factor (BCF)		
Notes	:	Not accumulated in the biological environment

12.4. Mobility in soil

Product:

Known or predicted distribution in environmental components		
Note	:	no data

Surface tension		
Note	:	no data

Adsorption/desorption		
Note	:	no data

12.5. Results of PBT and vPvB assessment

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

Product:

Results from PBT and vPvB assessment		
Notes	:	No information available

12.6. Other adverse effects

Product:

Biochemical oxygen demand (BOD)		
Value	:	No information available

Chemical oxygen demand (COD)		
Value	:	No information available

Additional ecological information/Mobility in soil		
Notes	:	No information available

12.7. Additional information

Notes	:	Do not allow products to enter streams, drains or other waterways.

13. Disposal Considerations

13.1. Waste treatment methods

13.1.1. Disposal of product/packing

Codes/designation of waste according to LoW: -

Product	Dispose of in accordance with local and national requirements.
Contaminated packaging	Empty contaminated packaging thoroughly. They can be recycled after thorough and proper cleaning. Packaging that cannot be cleaned is disposed of in the same way as the product.
Contaminated solids	Recommendation: Solids (e.g. cloth, cellulose, filter panels, binder) may be incinerated after consultation with the operator of the waste disposal facility and relevant authorities and in accordance with the necessary technical regulations. European waste catalogue: e.g. 15 02 02 Filter and absorbent materials contaminated with hazardous agents.
European Catalogue waste number	* **16 03 05** organic waste containing hazardous substances

13.1.2. Information on waste treatment: Recycling is preferred over disposal or incineration. Disposal must be carried out according to official regulations. It should not be disposed of with household waste. Do not allow product to reach drains.

13.1.3. Information on discharge in sewer systems: Do not allow product to reach drains.

13.1.4. Other recommendations for waste disposal: No data available.

14. UN proper shipping name

1197

14.1. UN proper shipping name

1197 *AROMATIC EXTRACTS LIQUID*

14.2. Transport hazard class(es)

Class 3

14.3. Packing group

III

14.4. Environmental hazards

14.5. Special precautions for user

When loading packages, smoking is prohibited near the vehicles. Check that the packaging is correctly placed in the vehicle and that it is correctly labelled.

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

Road transport

ADR

1197 *AROMATIC EXTRACTS LIQUID*

RID 1197 *AROMATIC EXTRACTS LIQUID*

Tunnel Code (D/E)

Waterway transport

ADN 1197 *AROMATIC EXTRACTS LIQUID*

Maritime transport

IMDG

1197 *AROMATIC EXTRACTS LIQUID*

EmFS F-E, S-D

Air transport

IATA/CAO

1197 *AROMATIC EXTRACTS LIQUID*

TRAVELLER AIRPLANE PACKING INSTRUCTION 355

TRAVELLER AIRPLANE MAXIMUM QUANTITY 60 L

CARGO AIRPLANE PACKING INSTRUCTION 366

CARGO AIRPLANE MAXIMUM QUANTITY 220 L

Labelling according to RID / ADR, IMCO / IMDG, OACI / IATA
SHIPPING NAME : UN 1197 EXTRACTS, AROMATIC, LIQUID

ENVIRONMENTALLY HAZARDOUS

15. Regulatory information

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

Other regulations / Laws	: This safety data sheet is consistent with the Law on Protection from Harmful Effects of chemical Substances and Preparations and the Ordinance on the Classification, Packaging and Labelling
EU legislative acts	: accordingly, EU regulations.
Permits or restrictions for use	Youth work restriction should be observed
Permissions	Not required
Restrictions on use	No information
Other EU legislative acts	: According to the effective Regulations

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

Restrictions for use in working environment	No information.
Other legal acts, restrictions and prohibitive standards	No information

15.2. Chemical Safety Assessment

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

16. Other information

Shelf life 30 months from the date of manufacture.

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

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

Abbreviations and acronyms:

Abbreviations	Description of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement on the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement on the International Carriage of Dangerous Goods by Road)
Aquatic Chronic 2	Harmful to aquatic life - chronic hazard
Asp Tox 1	Aspiration 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
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 (EU) 2020/878
- Regulation (EC) No 1272/2008 (CLP, EC GHS)

	List of relevant phrases (code and full text as defined in Section 2 and 3)
Code	**Text**
H226	Flammable liquid and vapors
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H411	Toxic to aquatic life with long lasting effects
EUH 208	Contains Limonene, Linalool. May cause an allergic reaction.
	List of safe handling instructions used in the safety document
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children
P210	Keep away from heat, hot surfaces, sparks, naked flames and other sources of ignition. Smoking is not permitted.
P262	Do not get in eyes, on skin, or on clothing.
P233	Keep container tightly closed
P264	Wash hands thoroughly after handling
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P310	IF SWALLOWED: Immediately call a doctor
P303 + P361	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

+ P353	skin with water [or shower].
P302 + P352	IF ON SKIN: Wash with plenty of water/…
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364	Remove contaminated clothing and wash before reuse
P391	Collect spillage
P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up
P501	Dispose of contents / container at an approved disposal site in accordance with local and national regulations.

Other information :

In accordance with general product specification:
The information in this material safety data sheet is meant to represent typical data/analysis for this product and was obtained from current and reliable sources.
To the best of our knowledge, data is accurate and based on our knowledge and information, at the time of publication.
The information presented is intended only as a guidance for proper and safe use, handling, storage, transportation and disposal, and should not be considered a guarantee /expressed or implied/ or a quality specification with respect to the correctness or accuracy.
It is responsibility of the user to determine any safe conditions for use of this product, and to assume responsibility for any loss, injury, damage or expenses resulting from the improper use of this product.
The information relates to the specific product only and is not valid when it used in combination with other materials or in any process, unless specified in the text.
The information provided does not constitute a delivery contract; regarding any specification or a given application, the buyer must determine for himself the requirements and recommendations for use of the product.

Disclaimer :

The data in this Safety 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.

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

E N D!

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

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

Name of product: Organic Sweet Orange Oil (Citrus Aurantium Dulcis Peel Oil - Organic) – v.03/10.04.2024

	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*	-	-	-
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*	*95,0*	-	*95,0*
22	*LINALOOL*	*H315*	*78-70-6*	*201-134-4*	*1,0*	-	*1,0*
23	*HYDROXYISOHEXYL 3-CYCLOHEXENE CARBOXALDEHYDE (LYRAL)*	*H317*	*31906-04-4*	*250-863-4*	-	-	-
24	*METHYL 2-OCTYNOATE*	*H302; H317*	*111-12-6*	*203-836-6*	-	-	-
25	*EVERNIA FURFURACEA LICHEN EXTRACT (TREEMOSS EXTRACT)*	*H317*	*90028-67-4*	*289-860-8*	-	-	-
26	*EVERNIA PRUNASTRI (OAK MOSS)*	*H317*	*90028-68-5*	*289-861-3*	-	-	-
27	*ALPHA-PINENE*	*H226; H302 H304; H315 H317; H400 H410*	*80-56-8*	*201-291-9*	*1,0527*	-	*1,0527*
28	*ALPHA-TERPINEOL*	*H315; H319*	*98-55-5*	*202-680-6*	*0,0749*	-	*0,0749*

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 concentrationexceeds:— **0,001 %** in"**leave-on"**products, (and)— **0,01 %** in**"rinse-off"**products