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MATERIAL SAFETY DATA SHEET

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

Organic Rose Geranium Oil

Version 1.0: First edition Date of compilation: 05.07.2021 Date of publishing: 10.07.2021

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

1.1. Product Identifiers

Product name	:	Organic Rose Geranium Oil
Substance name (INCI)	:	PELARGONIUM ROSEUM LEAF OIL
Botanic name	:	Pelargonium graveolens var. roseum
CAS No	:	90082-55-6
EO No	:	290-144-2
Biological origin	:	The oil is extracted from the fresh above-ground organs (leaves, branches, blooms of subtropical and tropical perennial semishrubs Pelargonium Roseum Wild, Pelargonium Roseum, Geraniaceae.

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

Use of substance/mixture	:	For application in food industry, perfumery and cosmetics by itself or as a formulation constituent, a part of composition.
Recommended restrictions on use	:	No data available.

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 Str.
Country identifier/ Postal code/city or town	:	Bulgaria
Telephone/Mobile/Fax	:	+359 700 15 502



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E-mail of the competent person responsible for the Safety Data Sheet : salesbg@alteya.com
National contact person : Kaloyan Stoev

1.4. Emergency telephone number

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

2. Hazards Identification

2.1. Classification of the substance or mixture

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

Classification according GHS				
Chapter	Subsection	Class of hazard	Class of hazard and category of hazard	Hazard statements
3.2	Skin	Skin irritation	Corrosion/irritation 2	H315
3.4	Sens.	Skin sensitization	(Skin sens 1)	H317
3.3	Eye	Eye irritation	(Corrosion)Damage/Irritation. 1	H318
3.5	Germ. cell	It is supposed to cause genetic defects.	Muta.2	H341
3.6	Carc.	It is supposed to cause cancer	Carc.2	H351
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



Signal word : Hazardous

Hazard statements : H315 Causes skin irritation
H317 May cause allergic skin reaction
H318 Causes serious eye damage
H341 It is supposed to cause genetic effects
H351 It is supposed to cause cancer
H412 Harmful for aquatic life with long-lasting effect



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EUH 208 Contains beta-Myrcene, para-Cymene, Limonene, Linalool, Citronellol, Geraniol, Eugenol, Methyl Eugenol, alpha-Pinene, beta-Phelandrene, Amyl Cinamyl Alcohol
May cause allergic reaction.

Safety recommendations

Safety recommendations

- General

P101 If medical advice is necessary have with you the package or the label of the product.

P102 Keep out of reach of children

Safety recommendations

-Prevention

P273 Avoid release to the environment

P280 Use protective gloves/protective goggles

Safety recommendations

- As a reaction

P305+ If contact with eyes: Rinse carefully with

P351+338 water for several minutes. Remove contact lenses if there are such and if possible. Continue rinsing.

P310 Immediately call Toxicology Center/a physician/...

P302 + P352 IF CONTACT WITH SKIN: Wash with plenty of water/...

P264 Thoroughly wash hands after handling

P 333 + P313 In case skin irritation or rash occurs: Seek medical advice/help.

Safety recommendations

In discharge

P405 Keep under lock and key.

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.

The substance meets vPvB criteria according to Regulation (EC) No 1907/2006, Annex XIII

3. Composition/information on ingredients

3.1. Substances

INGREDIENT	IDENTIFIERS	%	CLASSIFICATION
PELARGONIUM ROSEUM LEAF OIL	EINECS NO: 290-144-2 CAS NO: 90082-55-6	100,0	 DANGER Skin Irrit. Cat.2, H315



			<i>Skin Sens. 1B H317</i> <i>Eye Irrit. 1, H318</i> <i>Muta. 2 H341</i> <i>Carc. 2 H351</i> <i>Aquatic Chronic 3 H412</i>
<i>α-PINENE</i>	<i>EINECS NO: 232-077-3</i> <i>CAS NO: 7785-26-4</i>	<i>0,1 – 1,0</i>	<i>Flam. Liq. 3 H226</i> <i>Skin Irrit. 2 H315</i> <i>Skin Sens. 1B H317</i> <i>Asp. Tox. 1 H304</i> <i>Aquatic Acute 1 H400</i> <i>Aquatic Chronic 1 H410</i>
<i>ALPHA-PHELLANDRENE</i>	<i>EINECS NO: 202-792-5</i> <i>CAS NO: 99-83-2</i>	<i>< = 0,2</i>	<i>Flam. Liq. 3 – H226</i> <i>Acute Tox. 4 H302</i> <i>Skin Irrit. 2 – H315</i> <i>Eye Irrit. 2, H319</i> <i>Asp. Tox.1 H334</i> <i>STOT SE 3, H335</i>
<i>BETA - MYRCENE</i>	<i>EINECS NO: 204-622-5</i> <i>CAS NO: 123-35-3</i>	<i>< 0,5</i>	<i>Flam. Liq. 3 - H226</i> <i>Asp. Tox. 1, H304</i> <i>Skin Irrit. 2 – H315</i> <i>Eye Irrit. 2 - H319</i>
<i>P-CYMENE</i>	<i>EINECS NO: 202-796-7</i> <i>CAS NO: 99-87-6</i>	<i>< 0,5</i>	<i>Flam. Liq. 3 – H226</i> <i>Skin Irrit. 2 – H315</i> <i>Eye Irrit. 2 - H319</i> <i>STOT SE 3, H335</i> <i>Asp. Tox. 1 - H304</i>
<i>γ-Terpinene</i> (<i>GAMMA-TERPINENE</i>)	<i>EINECS NO: 202-794-6</i> <i>CAS NO: 99-85-4</i>	<i>< 0,1</i>	<i>Flam. Liq. 3; H226</i> <i>Repr. 2; H361d</i> <i>Aquatic Chronic 2, H411</i>
<i>AMYL CINNAMYL ALCOHOL</i>	<i>EINECS NO: 202-982-8</i> <i>CAS NO: 101-85-9</i>	<i>≤ 0,5</i>	<i>Eye Irrit. 2, H319</i>
<i>LIMONENE</i>	<i>EINECS NO: 227-813-5</i> <i>CAS NO: 5989-27-5</i>	<i>0,6 – 1,0</i>	<i>Flam. Liq. 3 – H226</i> <i>Skin Irrit. 2 – H315</i> <i>Skin Sens. 1 – H317</i> <i>Asp. Tox. 1 - H304</i> <i>Aquatic Acute 1 – H400</i> <i>Aquatic Chronic 1 – H410</i>
<i>METHYL EUGENOL</i>	<i>EINECS NO: 202-223-0</i> <i>CAS NO: 93-15-2</i>	<i>1,2282</i>	<i>Acute Tox.4 H302</i> <i>Muta.2 H341</i> <i>Carc.2 H351</i> <i>Aquatic Chronic2 H411</i>
<i>LINALOOL</i>	<i>EINECS NO: 201-134-4</i> <i>CAS NO: 78-70-6</i>	<i>6,0 – 7,0</i>	<i>Acute Tox. Oral 5 (H303)</i> <i>Eye Irrit. 2A (H319)</i> <i>Flam. Liq. 4 (H227)</i> <i>Aquatic Acute 3 (H402)</i>



			<i>Skin Sens. 1B (H317)</i> <i>Skin Irrit. 2 (H315)</i>
<i>CITRONELLOL</i>	<i>EINECS NO: 203-375-0 / 247-737-6 / 231-415-7 / 214-250-5</i> <i>CAS NO: 106-22-9 / 26489-01-0 / 7540-51-4 / 1117-61-9</i>	<i>24,0 – 30,0</i>	<i>Skin irrit, Cat. 2, H315</i> <i>Skin sens, Cat. 1, H317</i> <i>Aquatic Chronic 2,H411</i>
<i>GERANIOL</i>	<i>EINECS NO: 203-377-1</i> <i>CAS NO: 106-24-1</i>	<i>17,0 – 20,0</i>	<i>Skin Irrit. 2 – H315</i> <i>Eye Dam. 1 - H318</i> <i>Skin Sens. 1 – H317</i>
<i>EUGENOL</i>	<i>EINECS NO: 202-589-1</i> <i>CAS NO: 97-53-0</i>	<i>0,5 – 1,0</i>	<i>Asp. Tox. 1, H304</i> <i>Eye Irrit. 2 - H319</i> <i>Skin Sens. 1 – H317</i>
<i>TETRAHYDRO-METHYL-METHYLPROPENYL-PYRAN</i> <i>(trans – rose oxide)</i>	<i>EINECS NO: 225-017-2</i> <i>CAS NO: 4610-11-1</i>	<i>~ 1,5</i>	<i>Flam. Liq. 4 (H227)</i> <i>Skin Irrit. 2 (H315)</i> <i>Eye Irrit. 2A (H319)</i>
<i>α-Humulene</i>	<i>EINECS NO: 229-816-7</i> <i>CAS NO: 6753-98-6</i>	<i>0,1 – 1,0</i>	<i>Skin Irrit. 2 (H315)</i> <i>Eye Irrit. 2 - H319</i> <i>STOT SE 3, H335</i>
<i>GERANYL ACETATE</i>	<i>EINECS NO: 203-341-5</i> <i>CAS NO: 105-87-3</i>	<i>0,1 – 1,0</i>	<i>Skin Irrit. Cat.2, H315</i> <i>Eye .irrit, Cat. 2A; H319</i> <i>Aquatic Chronic 4, H412</i>

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).
- Following inhalation : No data available.
- Following skin contact : Remove the contaminated clothing. Wash the affected area with plenty of water, if possible cool.
- Following eye contact : Immediately start rinsing the eyes with plenty of water for at least 10 min. If symptoms persist (irritation, hotness) seek medical advice.
- Following ingestion : Immediately seek medical advice and present the package or the label. Don't give anything by mouth to an unconscious person and do not cause vomiting.



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In case the person is conscious he/she should rinse his/her mouth with water.

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

If contact with skin : May cause allergic skin reaction.
If contact with eyes : Causes serious eye damage.
If swallowed : Irritation, nausea

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

Treatment : Treat symptomatically.

5. Fire-fighting Measures

5.1. Extinguishing media

Suitable extinguishing media : Alcohol resistant foam, carbon dioxide, powder, water jet, water mist.
Unsuitable extinguishing media : Water – high pressure jet.

5.2. Special hazards arising from the substance or mixture

Specific hazards : In case of fire carbon and toxic gases may be released.

5.3. Advice for firefighters:

Special protective equipment for firefighters : Use self-contained breathing apparatus and protective clothing for the body as a whole. Closed containers filled with the product |near the fire should be cooled with water. Avoid penetration of the fire extinguishing material fire in sewer systems, surface and underground waters.

Additional data : No information available.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For personnel not responsible for emergencies



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Stop leakage, if you can do it without any risk. Use personal protective equipment at work. Follow the instructions in Sections 7 and 8. Do not inhale aerosols. Prevent contact with skin and eyes.

For firefighters: Firefighters should be equipped with adequate personal protective equipment (see section 8).

High temperature can increase pressure in the container - cool the container spraying water. Avoid inhaling the released vapors.

6.1.2. For the persons responsible for emergencies

Personal protective equipment : Maintain good professional and personal hygiene. Avoid inhaling the vapors of the product and the contact with the skin and the eyes.

6.2. Environmental precautions

Environmental precautions : Avoid penetration in sewer system. Avoid contamination of soil and surface and underground waters.

6.3. Methods and materials for containment and cleaning up

6.3.1. For containment : The spilled product should be covered with suitable (non-combustible) absorbing material (sand, desmid earth, soil or other suitable absorbing materials).

6.3.2. For cleanup : Collect in tightly closed containers and dispose of in accordance with the instructions in Section 13. In case of leakage of small quantity of the material inform the firefighting services and the other competent authorities. After removing the product wash the contaminated area with plenty of water. Do not use solvents.

6.4. Reference to other sections

See sections 7, 8 and 13.

7. Handling and Storage

7.1. Precautions for safe handling

Precautions : Work following the rules of the good industrial hygiene and safety measures. Avoid accidental contact with skin surfaces. Wear adequate protective clothing. Avoid inhaling. Prevent eye



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contact. Always wash hands after handling.
Remove and wash the contaminated clothing
before re-use.

- Fire-fighting measures : Keep away from heat. Keep away from ignition sources.
- Measures to avoid transformation into aerosols and powder : Use adequate ventilation or exhaust gases at the operation area.
- Hygiene measures : 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 in full tightly closed containers, away from heat, light other ignition sources at temperature of 15-25°C.
To store the oil for a shorter periods of time containers of galvanized sheet metal should be used and for longer period storage – glass containers or containers with varnish coating of the inner surface.
- Incompatible materials : Do not store near heat, sparks, naked flame, strong acids.
When not in use keep the container tightly closed.
- Packing materials : Always keep in packages preserving the integrity and the quality of the product.
- Storage class : No information available.
- Additional information on conditions of storage : No information available.
- Recommendations for protection from fire and explosions : Keep away from ignition sources and naked flame.



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Recommendations for primary storage : Use the good professional practices and occupational hygiene practices providing adequate ventilation for the operational area. Maintain good personal hygiene and do not eat, drink and smoke at work.

It is recommended to follow the requirements on packing and storage according to ISO/TS 210:2015.

7.3. Specific end use(s)

Recommendations : Before using read the label.

Solutions specific to the industry sector : No information available.

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

Additional information : Follow the regulation relative to the application:
*Therapeutic Products Act in case they are advertised as medications and medical products.
*Food Law and its regulations if advertised as dietary Supplement
*The cosmetics product regulations if advertised as Cosmetics (for instance perfume, highly diluted essential oils or bath supplements)
*Animal Feed Ordinance if advertised as feed supplement.
*Biocides Ordinance if advertised as insect repellants.
*In all other cases they are subject to Chemicals Ordinance.

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



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Relevant DNEL-/DMEL-/PNEC and other threshold levels

FINAL USE: WORKERS.
EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL: 5MG/KG BODY WEIGHT/DAY

EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: SHORT TERM LOCAL EFFECTS.
DNEL: 15MG OF SUBSTANCE/CM²

EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL: 2.5MG/KG BODY WEIGHT/DAY

EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: LONG TERM LOCAL EFFECTS.
DNEL: 15MG OF SUBSTANCE/CM²

EXPOSURE METHOD: INHALATION.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL: 16.5MG OF SUBSTANCE/M³

EXPOSURE METHOD: INHALATION.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS. *DNEL:* 2.8MG OF SUBSTANCE/M³
FINAL USE: CONSUMERS.

EXPOSURE METHOD: INGESTION.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS. *DNEL:* 1.2MG/KG BODY WEIGHT/DAY
EXPOSURE METHOD: INGESTION.
POTENTIAL HEALTH EFFECTS: LONG TERM SYSTEMIC EFFECTS.
DNEL: 0.2MG/KG BODY WEIGHT/DAY

EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: SHORT TERM SYSTEMIC EFFECTS.
DNEL: 2.5MG/KG BODY WEIGHT/DAY

EXPOSURE METHOD: DERMAL CONTACT.
POTENTIAL HEALTH EFFECTS: SHORT TERM LOCAL EFFECTS.
DNEL: 15MG OF SUBSTANCE/CM²



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EXPOSURE METHOD: **DERMAL CONTACT.**
POTENTIAL HEALTH EFFECTS: **LONG TERM SYSTEMIC EFFECTS.**
DNEL: **1.25MG/KG BODY WEIGHT/DAY**

EXPOSURE METHOD: **DERMAL CONTACT.**
POTENTIAL HEALTH EFFECTS: **LONG TERM LOCAL EFFECTS.**
DNEL: **15MG OF SUBSTANCE/CM²**

EXPOSURE METHOD: **INHALATION.**
POTENTIAL HEALTH EFFECTS: **SHORT TERM SYSTEMIC EFFECTS.**
DNEL: **4.1MG OF SUBSTANCE/M³**

EXPOSURE METHOD: **INHALATION.**
POTENTIAL HEALTH EFFECTS: **LONG TERM SYSTEMIC EFFECTS.**
DNEL: **0.7MG OF SUBSTANCE/M³**

EUGENOL, NAT - CAS: 97-53-0

WORKER: 21.2 MG /M³ - USER: 522 MG /M³ - EXPOSURE: INHALATION - FREQUENCY: LONG TERM, SYSTEMIC EFFECTS

WORKER: 6 MG /KG - USER: 3 MG /KG - EXPOSURE: DERMAL CONTACT- FREQUENCY: LONG TERM, SYSTEMIC EFFECTS

USER: 3 MG /KG - EXPOSURE: ORAL - FREQUENCY: LONG TERM, SYSTEMIC EFFECTS

EUGENOL, NAT - CAS: 97-53-0

WORKER: 21.2 MG /M³ - USER: 5.22 MG /M³ - EXPOSURE: INHALATION - FREQUENCY: LONG TERM, SYSTEMIC EFFECTS

WORKER: 6 MG /KG - USER: 3 MG /KG - EXPOSURE: DERMAL CONTACT - FREQUENCY: LONG TERM, SYSTEMIC EFFECTS

USER: 3 MG /KG - EXPOSURE: ORAL HUMAN - FREQUENCY: LONG TERM, SYSTEMIC EFFECTS

PREDICTED NO EFFECT CONCENTRATION (PNEC):

EUGENOL NAT. -CAS:97-53-0

ENVIRONMENTAL COMPARTMENT - FRESH WATER – VALUE: 1,13 03

ENVIRONMENTAL COMPARTMENT - MARINE WATER – VALUE: 0,113 03

ENVIRONMENTAL COMPARTMENT – FRESH WATER SEDIMENT – VALUE: 0,081 MG/KG

ENVIRONMENTAL COMPARTMENT - MARINE SEDIMENT – VALUE 0.081 MG/KG

ENVIRONMENTAL COMPARTMENT – SOIL (AGRICULTURAL) VALUE: 0,0155 MG/KG

ENVIRONMENTAL COMPARTMENT – EMISSIONE SALTUARIA – VALUE: 11.3 03

EUGENOL NAT. -CAS:97-53-0

ENVIRONMENTAL COMPARTMENT - FRESH WATER – VALUE: 1,13 03

ENVIRONMENTAL COMPARTMENT - MARINE WATER – VALUE: 0,113 03

ENVIRONMENTAL COMPARTMENT – FRESH WATER SEDIMENT – VALUE: 0,081 MG/KG

ENVIRONMENTAL COMPARTMENT - MARINE SEDIMENT – VALUE 0.081 MG/KG

ENVIRONMENTAL COMPARTMENT – SOIL (AGRICULTURAL) VALUE: 0,0155 MG/KG

ENVIRONMENTAL COMPARTMENT – EMISSIONE SALTUARIA – VALUE: 11.3 03

PREDICTED NO EFFECT CONCENTRATION(PNEC):

LINALOOL(CAS:78-70-6)

ENVIRONMENTAL COMPARTMENT: SOIL



<i>PNEC:</i>	<i>0.327MG/KG</i>
<i>ENVIRONMENTAL COMPARTMENT:</i>	<i>FRESH WATER</i>
<i>PNEC:</i>	<i>0.2MG/L</i>
<i>ENVIRONMENTAL COMPARTMENT:</i>	<i>SEA WATER</i>
<i>PNEC:</i>	<i>0.02MG/L</i>
<i>ENVIRONMENTAL COMPARTMENT:</i>	<i>INTERMITTENT WASTE WATER</i>
<i>PNEC:</i>	<i>2MG/L</i>
<i>ENVIRONMENTAL COMPARTMENT:</i>	<i>FRESH WATER SEDIMENT</i>
<i>PNEC:</i>	<i>2.22MG/KG</i>
<i>ENVIRONMENTAL COMPARTMENT:</i>	<i>MARINE SEDIMENT</i>
<i>PNEC:</i>	<i>0.222MG/KG</i>
<i>ENVIRONMENTAL COMPARTMENT:</i>	<i>WASTE WATER TREATMENT PLANT</i>
<i>PNEC:</i>	<i>10MG/L</i>

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 exposure control measures refer to the specified in subsection 1.2 identified uses of the substance or the mixture. Usually general or local exhaust ventilation is required to observe the limit(s) of exposure.



8.2.2. Personal protective equipment:

Use personal protective equipment, clean and correctly maintained. Keep the personal protective equipment in a clean place far from the operating area. Never eat, drink or smoke while handling the product. Remove and wash the contaminated clothing before re-use.

8.2.2.1. Eyes and face protection:

Avoid eye contact. Use eye protectors (goggles complying to EN 166), intended to protect eyes from liquid splashes.



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8.2.2.2. Skin protection

- Hand protection : Wear appropriate protective gloves (chemical resistant according EN 374 standard) in case of prolonged or repeated skin contact.
Recommended type of gloves: nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR) or PVA (polyvinyl alcohol).
- Body protection : The protective clothing should be regularly washed.
After a contact with the product all the contaminated parts of the body should be washed.

8.2.2.3. Respiratory tract protection

- : In case the ventilation is not sufficient respiratory tract protection equipment should be used.
When vapors / aerosols type A2 are generated.

8.2.2.4. Thermal hazards

- : No data available.

8.2.2.5. Additional protection

- : In case of spillage protective boots against slipping may be used.

Training measures related to the avoiding of exposition

- : The training of the staff is organized according a company schedule.

Organization measures to avoid exposition

- : Training of staff

Technical measures to avoid exposition

- : Training of staff

Environmental exposure controls

- Basic guidelines : Do not wash-off in surface waters and sewer systems.

9. Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

- State of aggregation : liquid
- Appearance : mobile colorless to pale amber – colored liquid.
- Color : pale amber-yellow to green-yellow



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Odor	:	Pleasant, fresh, strong, rose-like with different notes depending on the origin.
Odor Threshold	:	No information available at the moment.
Melting point/freezing point	:	No information available.
Boiling point or initial boiling point and duration of boiling	:	No information available.
Flammability	:	No information available.
Explosivity	:	No information available.
Lower and upper limit of explosivity	:	No information available.
Flash temperature	:	85°C
Boiling point	:	No information available.
Self-ignition temperature	:	No information available.
Decomposition temperature	:	No information available.
pH	:	No information available.
Solubility	:	Soluble in 1:3 v / v Ethanol 70%. Soluble in all kinds of ratios in benzyl benzoate and vegetable oils. Its solutions in mineral oils and propylene glycol opalize.
Insoluble	:	water, glycerin.
Partition coefficient n-octanol/water (logarithmic value)	:	No information available.
Vapor pressure	:	No information available.
Density and/or relative density	:	No information available.
Vapor relative density	:	No information available.
Characteristics of particles	:	Not applicable.



9.2. Other information

Refractive index at n^{20}_d : 1.458 -1.468

Relative density at d^{20} : 0.878 - 0.892

No other information is available.

9.2.1. Information on the classes of physical hazards

Note : No information available.

10. Stability and Reactivity

10.1. Reactivity

Note : The product is considered stable at the recommended conditions of storage.

10.2. Chemical stability

Note : Unstable with strong acid, and in alkali environment its esters saponify.

10.3. Possible hazardous reactions

Hazardous reactions : Fire hazard.

10.4. Conditions to avoid

Conditions to avoid : Keep away from ignition sources – do not smoke.
Do not store near heat, sparks, naked flames, strong acids

Thermal decomposition : No data available.

10.5. Incompatible materials

Materials to avoid : Strong acids, strong alkali, strong oxidizers, strong reducing agents.

10.6. Hazardous decomposition products

Hazardous decomposition Products : In case of fire hazardous decomposition products may be generated such as carbon oxide and dioxide



and nitrogen evaporations and oxides.

11. Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

AMYL CINNAMYL ALCOHOL 101-85-9

LD50 Oral-Rat-4.000 mg/kg (2-Pentyl-3-phenylprop-2-en-1-ol)

LD50 Dermal-Rabbit-- >5.000 mg/kg (2-Pentyl-3-phenylprop-2-en-1-ol)

GERANYL ACETATE 105-87-3

Oral LD50 (rat): 6330 mg/kg; Oral LD50 (mouse): 8 mg/kg

EUGENYL METHYL ETHER (METHYL EUGENOL) (CAS: 93-15-2)

Oral LD50 = 810 mg/kg

D-LIMONENE (CAS: 5989-27-5)

Oral route: LD50+4,400 – 5,10 MG/KG

Species: Rat

EUGENOL (CAS=97-53-0)

Oral: LD = 2300 mg/kg

beta-Myrcene

Intraperitoneal TDLO (mouse): 25 mg/kg; Oral LD50 (Rat): >11.39 gm/kg;

Oral LD50 (mouse): 5060 mg/kg

Methyleugenol

LD50 Oral-Rat-810 mg/kg

LINALOOL (CAS: 78-70-6)

Oral route: LD50=2200 mg/kg

Species: Mouse

OECD Guideline 401 (Acute Oral Toxicity)

CITRONELLOL (CAS: 106-23-0)

Oral route: LD50=3450 MG/KG

CITRONELLAL (CAS: 106-22-90)

Oral route: LD50=2500 MG/KG

GERANIOL (CAS: 106-24-1)

Oral route: LD50=4200 MG/KG



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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

EUGENOL 97-53-0

LD50Oral-Rat-male->2.000mg/kg(OECD Guideline 423) LD50
Inhalation-Rat-male-4 h-> 2,6 mg/l(OECD Guideline 403)

LINALOOL (CAS: 78-70-6)

Dermal route: LD50=5610 mg/kg
Species: Rabbit
OECD Guideline 402 (Acute Dermal Toxicity)

LINALOOL (CAS: 78-70-6)

Irritation: Average score = 1.85
Effect observed: Erythema score
Species: Rabbit
Duration of exposure: 24h OECD Guideline 404 (Acute Dermal Irritation/Corrosion)

CITRONELLOL (CAS: 106-22-9)

Dermal route: LD50=2650 mg/kg

Notes : Causes skin irritation.

Serious eye damage/ irritation

Result : Causes serious eye damage.
May cause irreversible damage of eyes such as eye tissue damage or serious physical decay of vision that is not fully invertible in a period of 21 days. The serious damage of eyes is characterized with the destruction of cornea, and the permanent opacity of cornea and iritis.

LINALOOL 9CAS: 78-70-9)

Corneal haze Average score = 1
Species: Rabbit
Duration of exposure: 24h OECD Guideline 405 (Acute Eye Irritation/Corrosion)

Iritis: Average score = 0.6



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Species: Rabbit
Duration of exposure: 24h OECD Guideline 5 (Acute Eye Irritation/Corrosion)

Conjunctival redness: Average score = 2.3
Species: Rabbit
Duration of exposure: 24h OECD Guideline 405 (Acute Eye Irritation/Corrosion)

Eugenol 97-53-0

Eyes-Rabbit Result: Eye irritation. (OECD Guideline 405)

Notes : Causes serious eye irritation.

Respiratory or skin sensitization

Eugenol 97-53-0

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

Note: May cause serious allergic skin reaction.

Ingestion

Note : No data available.

Mutagenicity of germ cells

Rat (eugenol), Liver, DNA damage
Mouse (eugenol), lymphocytes
Mutation of the mammalian somatic cells.
Guinea pig (eugenol) germ

DNA synthesis
Guinea pig (eugenol) germ

Morphological transformations.
Guinea pig (eugenol) germ

Methyleugenol

*It is supposed that it causes genetic defects. In vitro chromosome change test;
Result: positive*

Methyleugenol

*Limited evidence to prove the carcinogenicity in animal studies IARC:2B-
Group 2B: Possible carcinogenicity for human (4-Allylveratrole)*



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Note : *It is supposed that it causes genetic defects*

Carcinogenicity

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

IARC: 3 Group 3 : Cannot be classified as carcinogenic for human (Eugenol)

Summary of the assessment of CMR properties

Methyl Eugenol
Result – positive

Note : It is supposed to cause cancer.

STOT (specific target organ toxicity) — single exposure

Note : No data available

STOT (specific target organ toxicity) — repeated exposure

Note : No data available

Aspiration hazard

Note : No data available.

Information on possible routes of exposure

Note : Dermal.

Symptoms related to physical, chemical and toxicological characteristics

Note : Toxicological characteristics are not comprehensively studied

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

Note : Toxicological characteristics are not



comprehensively studied

Interactions

Note : Toxicological characteristics are not comprehensively studied

Lack of specific data

Note : Toxicological characteristics are not comprehensively studied

Mixtures

Note : Toxicological characteristics are not comprehensively studied

Medical consideration

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

Other information

Note : Please, remember that this oil contains methyl eugenol that is considered potentially carcinogenic by IFRA (based on high-dose study on rodents). It must be mentioned though that there is not evidence that the tumour in humans are cause by the use of the essential oils.
Dilute before use. Before use a patch test should be carried out for people with sensitive skin.

11.2. Properties disturbing the functions of the endocrine system

Note : No information available.

12. Ecological information

Note : No information available.

12.1. Toxicity

Product:

Acute (short-term) toxicity:



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Fish

EUGENOL(CAS: 97-53-0)

LC50-Daniorerio(zebrafish)-13mg/l-96h(Eugenol).
(OECDTestGuideline203)

Methyleugenol

LC50-Oncorhynchus mykiss (Rainbow trout)-6 mg/l-96 h
LC50-Oncorhynchus mykiss (Rainbow trout)-6 mg/l-96 h
LC50-Lepomis macrochirus (bluegill)-8,1 mg/l-96 h
LC50-Oncorhynchus mykiss (Rainbow trout)-6,9 mg/l-96 h

LINALOOL (CAS: 78-70-6)

Fish toxicity: Duration of exposure: 96h
LC50=27.8 mg/l
Species: *Oncorhynchus mykiss*
OECD Guideline 203 (Fish, Acute Toxicity Test)

GERANIOL (CAS: 106-24-1)

LC50(96h, *Danio rerio* (zebra fish) = 14 mg/l

Toxic for Daphnia and other aquatic invertebrates

EUGENOL(CAS: 97-53-0)

ec50-daphnia(waterflea)-1.13mg/l-48h(eugenol)

LINALOOL (CAS: 78-70-6)

Crustacean toxicity: Duration of exposure: 48h
EC50=59 mg/l
Species: *Daphnia magna*
OECD Guideline 202 (*Daphnia* sp. Acute)

GERANIOL (CAS: 106-24-1)

EC50(48h, *Daphnia magna* (Water Flea) = 7.75 mg/l (OECD Test Guideline 202)

Algae/aquatic plants

LINALOOL (CAS: 78-70-6)

Immobilization Test

Acute toxicity: Duration of exposure: 96h
ECr50=88.3 mg/l
Species: *Desmodesmus subspicatus*
Other Guideline



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GERANIOL (CAS: 106-24-1)

ErC50(72h, Scenedesmus capricornutum (Fresh Water Algae)) = 3.32 mg/l
(OECD Test Guideline 201)

Bacteria

Note : No data available

Chronic (long-term) toxicity:

Note : No data available.

Fish

Note : No data available

Shellfish

Note : No data available

Algae/water plants

Note : No data available

Other organisms

Note : No data available.

12.2. Persistence and degradability

Product:

Abiotic degradation

Degradation of mixture components

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

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

Physical and photo-chemical elimination

Note : No data available

Biochemical degradation



Note : Biodegradation expected.

12.3. Bioaccumulation

Product: No data available

Bioaccumulation of mixture components

<i>DL-a-pinene</i> 80-56-8	Log KOW4,83
<i>DL-limonene</i> 138-86-3	Log KOW 4,57
<i>Myrcene</i> 123-35-3	Log KOW4,82 (pH value:~6,5, 30 °C)

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 information available

Chemical oxygen demand (BOD)

Value : No information available



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Additional ecological information/Mobility in soil

Notes : No information available

12.7. Additional information

Notes : Avoid penetration 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

Codes/designation of waste according to LoW: -

- Product : Dispose of in accordance with all local and national regulations.
- Contaminated packaging material : Dispose of as unused product. Do not contaminate soil, water or environment with waste containers. Waste products should be treated according to the applicable local, national and European legislation.
- European Catalogue waste number : No waste code can be given to this product according to the European Waste Catalogue since it is related to its potential use. Waste code is given after consulting the regional waste Service
- 13.1.2. Information on waste treatment** : Contact an authorized professional service to dispose of this material.
- 13.1.3. Information on discharge in sewer systems** : Prevent discharge in streams, canals or other water routes.

14. Information on transportation

Not regulated.

14.1. UN number

Not applicable.

14.2. UN proper shipping name



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Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. UN proper shipping name

Not applicable.

14.5. Environmental hazard



The material is dangerous for environment.

14.6. Social precautions for user

Not applicable.

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

Road transport

ADR The product is not related to the transport regulations.

RID The product is not related to the transport regulations.

Waterway transport

AND The product is not related to the transport regulations.

Maritime transport

IMDG The product is not related to the transport regulations.

Air transport

IATA/CAO The product is not related to the transport regulations

15. Regulatory information

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



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

EU legislative acts : accordingly, EU regulations.

Permits or

restrictions for use

: According to Regulation 1223/2009.

* The component methyl eugenol is not permitted for use in cosmetics products excluding the cases it is a natural ingredient of the essential oils or other natural flavoring product. In the end product it should not exceed the following quantities:

-0.01% in fine perfumes;

-0.004% in toilet water;

-0.002% cream perfumes;

-0.0002% - other leave-on products and oral products;

-0.001% rinse-off products

* The maximum level for the dermal application of this oil is 0.016% - for leave-on cosmetics product and 0.08% for rinse-off product, it depends on the methyl eugenol content in the oil.

15.2. Chemical Safety Assessment

No information available.

The supplier had not prepared a chemical safety assessment for this substance/mixture.

16. Other information

Shelf life 2 years from the date of production.

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

Abbreviations and acronyms:

Abbr.	Description of used abbreviations
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement on the International Carriage of Dangerous Goods by Inland Waterways)
ADR	Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement on the International Carriage of Dangerous Goods by Road)
Aquatic Chronic 3	Hazardous for aquatic environment – chronic toxicity
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (preIt pares the most comprehensive list of



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	chemicals)
Carc.2	It supposed to cause cancer.
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 Existing Commercial Chemical Substances
EmS	Emergency Schedule
Eye Dam.	Eye damage
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
IATA	International Air Transport Association
IAT/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)
Muta.2	It is assumed to cause genetic defects
NLP	No-longer 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
EU No in EC-List	(EINECS, ELINCS and NLP – list) is the source of the seven digit number, identifying the substances at the commercial network of the European Union
Index No	The index number is the identification code of the substance in part 3 of Annex VI of Regulation (EC) 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
H315	Causes skin irritation



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H317	May cause allergic skin reaction
H318	Causes serious eye irritation
H341	It is assumed to cause genetic defects.
H351	It is assumed to cause cancer
H412	Toxic for aquatic life with long-lasting effect
EUH208	Contains beta-Myrcene, para-Cymene, Limonene, Linalool, Citronellol, Geraniol, Eugenol, Methyl Eugenol, Alpha-Pinene, Beta-Phellandrene, Amyl Cinnamil Alcohol. May cause allergic reaction.
List of instructions for safe treatment, used in the safety document	
P101	In case you need medical advice have with you the packing or the label of the product.
P102	Keep away from children
P264	Wash hands thoroughly after handling.
P280	Use protective gloves/protective clothing/goggles/protective face mask
P302 + P352	IF SKIN CONTACT: wash with plenty of water...
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.
P310	Immediately call TOXICOLOGY CENTER / physician...
P333 + P313	If skin irritation or rash: seek medical advice/help.
P273	Avoid release in environment
P405	Keep under lock and key.
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



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process, unless specified in the text.

The information provided does not constitute a delivery contract; regarding any specification or a given application, the buyer must determine for himself the requirements and recommendations for use of the product.

Disclaimer :

The data in this Safety Data Sheet correspond to the fair presentation of our experience at the time of printing. The information should give you basic guidelines for safe handling of this product, specified in the Safety Data Sheet, regarding its storage, processing, transport and disposal. Data cannot be assigned to other products.

If the product is mixed or processed with other materials, or if it is subject to processing, the data in this Safety Data Sheet cannot be assigned to the new material unless expressly stated otherwise.

The information presented is intended only as a guidance for proper and safe use, handling, processing, storage, transportation and disposal, and should not be considered a guarantee or a quality specification.

Due to the man factors out of our control we cannot assume responsibility for any incidents, accidents, loss or damage resulting from the use of this product

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

Customer: , ALTEYA ORGANICS LLC, 1 ROSE FIELD STREET, 6167, VILLAGE OF YAGODA, STARA ZAGORA REGION

Name of product: Pelargonium Roseum Leaf Oil - Organic

	NAME OF SUBSTANCES	REMARK	CAS №	EINECS №	NATURAL %	SYNTHETIC %	TOTAL %
1	AMYL CINNAMAL	H317; H411	122-40-7	204-541-5	-	-	-
2	AMYL CINNAMYL ALCOHOL	H315; H317	101-85-9	202-982-8	≤ 0,5	-	≤ 0,5
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	24,0 – 30,0	-	24,0 – 30,0
12	COUMARIN	H302; H317	91-64-5	202-086-7	-	-	-
13	EUGENOL	H319; H317	97-53-0	202-589-1	0,5 – 1,0	-	0,5 – 1,0
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	17,0 – 20,0	-	17,0 – 20,0
17	HEXYL CINNAMAL	H317;	101-86-0	202-983-3	-	-	-
18	HYDROXYCITRONELLAL	H319; H317	107-75-5	203-518-7	-	-	-
19	ISOEUGENOL	H312; H302 H319; H315 H317	97-54-1	202-590-7	-	-	-
20	BUTYLPHENYL METHYLPROPIONAL (LILIAL)	H317	80-54-6	201-289-8	-	-	-
21	LIMONENE	H226; H315 H317; H411	5989-27-5	227-813-5	0,6 – 1,0	-	0,6 – 1,0
22	LINALOOL	H315	78-70-6	201-134-4	6,0 – 7,0	-	6,0 – 7,0
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 (TREMOSSE EXTRACT)	H317	90028-67-4	289-860-8	-	-	-
26	EVERNIA PRUNASTRI (OAK MOSS)	H317	90028-68-5	289-861-3	-	-	-

According to Regulation EO 1223/2009 is here by amended as follows:

The presence of the substance must be indicated in the list of ingredients referred to in Article 6(1)(g) when its concentration exceeds: — **0,001 %** in “leave-on” products, (and) — **0,01 %** in “rinse-off” products