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MATERIAL SAFETY DATA SHEET

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

Organic Patchouli Oil

Version 02

Date of creation: 13.04.2018

Supersedes the version from: 13.04.2018

Date of new version: 20.11.2023

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

1.1. Product Identifiers

| | | |
|-----------------------|---|---|
| Product name | : | Natural Patchouli Oil |
| Substance name (INCI) | : | POGOSTEMON CABLIN LEAF OIL |
| REACH Registration No | : | - |
| CAS No | : | 8014-09-3 / 84238-39-1 |
| EO No | : | - / 282-493-4 |
| Biological origin | : | Obtained by steam distillation of the dry or very withered leaves of the perennial half-shrub <i>Pogostemon patchouli</i> <i>Pellet</i> = <i>Pogostemon cablin</i> (<i>Blanco</i>) <i>Bentham</i> var. <i>Suavis</i> <i>Hook</i> , of family Lamiaceae. |

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

| | | |
|------------------------------------|---|--|
| <u>Manufacturer</u> | : | ALTEYA ORGANICS LLC |
| <u>Mailing address/Postal code</u> | : | 6167, village of Yagoda, 1, Rozovarna St. |
| <u>Country identifier/</u> | | |
| <u>Postal code/city or town</u> | : | Bulgaria |
| <u>Telephone/Mobile/Fax</u> | : | +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

Website : <http://alteya.com>

1.4. Emergency telephone number

Clinic of Toxicology at MPHATEM N.I. Pirogov

Emergency telephone number: 02 9154409; (regular working time, Saturdays and Sundays excluded) or 02 9154 346 (24h service, all week)

e-mail: poison_centre@mail.orbitel.bg

<http://www.pirogov.net>

2. Hazards Identification

2.1. Classification of the substance or mixture

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

| Classification according GHS | | | | |
|-------------------------------------|-------------------|-----------------------------------|---|--------------------------|
| Chapter | Subsection | Class of hazard | Class of hazard and category of hazard | Hazard statements |
| 3.10 | Inh. | Inhalation hazard | (Asp Tox 1) | H304 |
| 3.4 | Sens. | Skin sensitization | (Skin sens 1) | H317 |
| 3.3 | Eye | Eye irritation | (Corrosion)Damage/Irritation. 2A | H319 |
| 4.1 | Chronic | Hazardous for aquatic environment | Aquatic Chronic 2 | H411 |

2.1.2. Additional information:

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

2.2. Label Elements

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

Hazard pictograms



GHS08 GHS07 GHS09

Signal word

: Hazardous

Hazard statements

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

Hazard statements

concerning environment

: H411 Toxic for aquatic life with long-lasting effect

EUH208 Contains: alpha-Bulnesene, Patchoulol, Eugenol, Isoeugenol, Limonene, Linalool, Beta-Caryophyllene. May cause allergic reaction.



Safety recommendations

Safety recommendations

- General

P102 Keep out of reach of children

Safety recommendations

- Prevention

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Use protective gloves/protective clothing/protective goggles/protective facial mask.

Safety recommendations

- As a reaction

P301+P310 IF SWALLOWED: immediately call TOXICOLOGY CENTRE or a physician.

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P305+ P351+ If in the eyes: Rinse carefully with water for several minutes. Remove contact lenses if there are such and if possible. Continue rinsing.

P338 P337+P313 If eye irritation persists: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash before reuse.

P391 Collect spillage

Safety recommendations

If stored:

P405 Store locked up.

At disposal:

P501 Dispose of contents/container in an approved place and in compliance with the local and national regulations.

2.3. Other hazards

No other information available.

3. Composition/information on ingredients

3.1. Substances/ Mixture

| INGREDIENT | IDENTIFIERS | % | CLASSIFICATION |
|--------------------------------|--|--------|---|
| POGOSTEMON CABLIN LEAF OIL | EINECS NO: - / 282-493-4 CAS NO: 8014-09-3 / 84238-39-1 | 100,0 |    DANGER Asp. Tox. 1, H304 Skin Sens. 1 – H317 Eye Irrit. 2; H319 Aquatic Chronic 2, H411 |
| Patchouli Alcohol (Patchoulol) | EINECS NO: 227-807-2 CAS NO: 5986-55-0 | > 30,0 | Aquatic Chronic 2, H411 |



| | | | |
|---------------------------|---|-------------------|---|
| <i>ALPHA-GUAIENE</i> | <i>EINECS NO: 201-860-1</i> <i>CAS NO: 88-84-6</i> | <i>0,5 – 20,0</i> | <i>Asp. Tox. 1, H304</i> <i>Skin Irrit. 2; H315</i> <i>Eye Irrit. 2; H319</i> |
| <i>ALPHA-BULNESENE</i> | <i>EINECS NO: -</i> <i>CAS NO: 3691-11-0</i> | <i>5,0 – 25,0</i> | <i>N/A</i> |
| <i>EUGENOL</i> | <i>EINECS NO: 202-589-1</i> <i>CAS NO: 97-53-0</i> | <i>0,01 – 0,4</i> | <i>Asp. Tox. 1, H304</i> <i>Eye Irrit. 2 - H319</i> <i>Skin Sens. 1 – H317</i> |
| <i>ISOEUGENOL</i> | <i>EINECS NO: 202-590-7</i> <i>CAS NO: 97-54-1</i> | <i>0,01 – 0,5</i> | <i>Acute Tox. 4; H302, H312</i> <i>Skin Irrit. 2; H315</i> <i>Eye Irrit. 2; H319</i> <i>Skin Sens. 1A; H317</i> <i>STOT SE 3; H335</i> <i>Limit concentrations:</i> <i>>= 0,01 %: Skin Sens. 1A, H317;</i> |
| <i>LIMONENE</i> | <i>EINECS NO: 227-813-5</i> <i>CAS NO: 5989-27-5</i> | <i>0,01- 0,15</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>LINALOOL</i> | <i>EINECS NO: 201-134-4</i> <i>CAS NO: 78-70-6</i> | <i>0,01- 0,15</i> | <i>Eye Irrit. 2A (H319)</i> <i>Skin Sens. 1B (H317)</i> <i>Skin Irrit. 2 (H315)</i> <i>Aquatic Chronic 2 / H411</i> |
| <i>BETA-CARYOPHYLLENE</i> | <i>EINECS NO: 203-205-5</i> <i>CAS NO: 104-46-1</i> | <i>1,0 – 5,0</i> | <i>Asp. Tox. 1, H304</i> <i>Skin Sens. 1, H317</i> |

4. First Aid Measures

4.1. Description of first aid measures



- General notes : In case of unwellness, seek medical attention (if possible, show the label).
- Following inhalation : Move the affected person to fresh air. Seek medical advice if discomfort persists.
- Following skin contact : Remove contaminated clothing and wash the skin with soap and water. Seek medical advice if discomfort persists.



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- Following eye contact : Immediately rinse thoroughly with water, also underneath eyelids for at least 15 minutes. Seek medical attention, if appropriate.
- Following ingestion : Wash mouth with water and immediately seek medical attention.
- Self-protection of first aid provider : No additional data available.

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

Symptoms : Inhalation hazard.

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

Treatment : No specific antidote available.
Treat symptomatically.
No additional data available

5. Fire-fighting Measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray, dry extinguishing, BC-powder, carbon dioxide (CO₂).

Unsuitable extinguishing media : Do not use full water jet on burning material.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products : Carbon monoxide (CO), carbon dioxide (CO₂).
Burning may release poisonous gases containing carbon monoxide.

Specific hazards during fire-fighting : No data available



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5.3. Advice for firefighters:

Special protective equipment for firefighters : Do not inhale smoke in case of fire and/or explosion. Do not allow extinguishing water to enter drains or water sources. Extinguish the fire with the usual precautions from a reasonable distance. Wear a self-contained breathing apparatus.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures



6.1.1. For personnel not responsible for emergencies

Wear appropriate protective equipment (including the personal protective equipment listed in Section 8 of this Material Safety Data Sheet) to prevent contamination of skin, eyes and personal clothing. Avoid product contact with skin, eyes and clothing. Do not breathe vapor/aerosol.

6.2. Environmental precautions

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

6.3. Methods and materials for containment and cleaning up

6.3.1. For containment : Covering of drains. Cover with inert, inorganic, non-combustible absorbing material.

6.3.2. For cleanup : Should be mechanically absorbed with a binding material (sand, diatomaceous earth, acid binder or universal).

6.3.3. More information : Place in appropriate disposal containers. Ventilate the affected area.

Methods and materials for cleanup : Dispose of in accordance with current laws containment and regulations.

6.4. Reference to other sections

Hazardous combustion products: see Section 5. Personal protective equipment: see Section 8.

Incompatible materials: see Section 10. Waste disposal: see Section 13.



7. Handling and Storage

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

| | | |
|--|---|--|
| Technical measures and storage conditions | : | Store the container tightly closed. Store only in original packaging. |
| Packing materials | : | Use packing materials which allow integrity of the product. |
| Requirements to storage areas or containers | : | Keep the container tightly closed in a dry, ventilated area, away from potential sources of ignition and away from sunlight. |
| Storage class | : | No data available |
| Additional information on storage conditions | : | Store in a closed container. |
| Requirements to storage areas and containers | : | Drums or containers with internal varnish coating, not reacting with oils at temperatures up to 15-25°C. |



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Recommendations for protection
from fire and explosions : Not known

Class of dust explosion : No data available

Recommendations for primary storage : Keep in dark and cool place

General rules are recommended as per **БДС ISO 210:2023**

7.3. Specific end use(s)

Recommendations : No data available.

Solutions specific to the industry sector : No data available.

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

Additional information: Follow the regulation relative to the application:
• The cosmetics product regulations if advertised as cosmetics (for instance perfume, highly diluted essential oils for use on the body as massage oils or bath supplements).
• In all other cases they are subject to Chemicals Ordinance.

8. Exposure controls/Personal protection equipment

8.1. Control parameters

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

No data.

Other occupational exposure limits

Information on monitoring procedures

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

Relevant DNEL - mixture components

Linalool 78-70-6 DNEL 2,8 mg/m³ human, inhalation industrial worker chronic - systemic effects

Linalool 78-70-6 DNEL 16,5 mg/m³ human, inhalation industrial worker acute - systemic effects



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

Limonene

D-(+)-limonene 5989-27-5 DNEL 66,7 mg/m³ human, inhalation industrial worker chronic - systemic effects

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

Eugenol, Nat - Cas: 97-53-0

Worker industry: 21.2 Mg / M³ - Consumer: 5.22 Mg / M³ - Exposure: Inhalation for human - Frequency: Long Term, Systemic effects

Workers industry: 6 Mg / Kg - Consumer: 3 Mg / Kg - Exposure: Dermal for skin - Frequency: Long Term, Systemic effects

Consumer: 3 Mg / Kg - Exposure: Oral for human - Frequency: Long Term, Systemic effects

Eugenol, Nat - Cas: 97-53-0

Worker industry: 21.2 Mg / M³ - Consumer: 5.22 Mg / M³ - Exposure: Inhalation for human - Frequency: Long Term, Systemic effects

Workers industry: 6 Mg / Kg - Consumer: 3 Mg / Kg - Exposure: Dermal for skin - Frequency: Long Term, Systemic effects

Consumer: 3 Mg / Kg - Exposure: Oral for human - Frequency: Long Term, Systemic effects

PNEC

Eugenol, Nat - Cas: 97-53-0

Objective: Freshwater - Value: 1,13 03

Objective: Marine water - Value: 0.113 03

Objective: Freshwater sediment - Value: 0,081 Mg / Kg

Objective: Marine sediment - Value: 0,081 Mg / Kg

Objective: Soil (Agricultural) - Value: 0,0155 Mg / Kg

Objective: Emissione Saltuaria - Value: 11.3 03

Eugenol, Nat - Cas: 97-53-0

Objective: Freshwater - Value: 1,13 03

Objective: Marine water - Value: 0.113 03

Objective: Freshwater sediment - Value: 0,081 Mg / Kg

Objective: Marine sediment - Value: 0,081 Mg / Kg

Objective: Soil (Agricultural) - Value: 0,0155 Mg / Kg

Objective: Emissione Saltuaria - Value: 11.3 03

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)

D-(+)-limonene 5989-27-5 PNEC 14 µg/l aquatic organisms freshwater short-term (instant)

D-(+)-limonene 5989-27-5 PNEC 1,4 µg/l aquatic organisms marine short-term (instant)



D-(+)-limonene 5989-27-5 PNEC 1,8 mg/l aquatic organisms sewage treatment plant (STP) short-term (instant)

D-(+)-limonene 5989-27-5 PNEC 3,85 mg/kg aquatic organisms sediments freshwater short-term (instant)

D-(+)-limonene 5989-27-5 PNEC 0,385 mg/kg aquatic organisms marine sediments short-term (instant)

D-(+)-limonene 5989-27-5 PNEC 0,763 mg/kg terrestrial organisms soil short-term (instant)

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 | : | viscous liquid |
| Color | : | orange, red-brown to greenish-brown, sometimes green |
| Odor | : | characteristic, strong, woody, slightly camphor and balsamic smell, with fruity earthy and moldy note. |
| Solubility in 90% ethanol | : | 1:10 |
| Acid number, mgKOH/g not more than | : | 4.0 |
| Ester number, mgKOH/g not more than | : | 10.0 |
| pH value | : | No data available |
| Melting point/freezing point | : | No data available |
| Boiling point | : | 287 @ 760mm Hg |
| Boiling point/ boiling range | : | No data available |
| Flash point, in °C | : | 110°C |
| Evaporation rate | : | No data available |
| Flammability (solid substance, gas): | | This material is combustible but will not ignite easily |
| Upper flammability/ explosion limit | : | No data available |



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| | | |
|--|---|---|
| Lower flammability/ explosion limit | : | No data available |
| Vapour pressure | : | 0.01 mm Hg @ 20°C |
| Density of vapours | : | No data available |
| Relative density | : | No data available |
| Solubility(ies) | : | soluble in alcohol, benzyl benzoate, diethyl phthalate vegetable and mineral oils, partly soluble in propylene glycol |
| Insoluble in | : | water, glycerin |
| Partition coefficient n-octanol/water | : | No data available |
| Self-ignition temperature | : | No data available |
| Thermal decomposition | : | No data available |
| Viscosity | : | No data available |
| Explosivity | : | No data available |
| Oxidizing properties | : | No data available |

Other information

Refractive index at 20°C : 1.505 - 1.515

Relative density at 20°C : 0.943- 0.983

Optical rotation in ° : -66.0° to -47.0°

No additional data available.

10. Stability and Reactivity

10.1. Reactivity

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



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10.2. Chemical stability

Advice : The material is resistant to temperature and pressure or in the usual environment and under the foreseeable conditions of storage and use.

10.3. Possible hazardous reactions

Hazardous reactions : Reacts violently with: strong oxidizer.

10.4. Conditions to avoid

Conditions to avoid : Temperatures higher than 15°C

Thermal decomposition : No data available.

10.5. Incompatible materials

Materials to avoid : Heat, strong acids, alkali

10.6. Hazardous decomposition products

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

11. Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

| | | |
|--------------------|---|---------|
| Method | : | LD50 |
| Species | : | rat |
| Routes of exposure | : | oral |
| Effective dose | : | > 5g/kg |
| Exposure time | : | - |

Rat (M/F) LD50 4380 mg/kg – interpretation: low

Acute dermal LD50 in rabbits > 2500 mg/kg – interpretation: low

Patchoulol 5986-55-0 oral LD50 >5.000 mg/kg rat

Patchoulol

Oral LD50 4,693 mg/kg (mouse)

TDLO 10 mg/kg (rat)



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EUGENOL (CAS: 97-53-0)

Oral: LD50 = 2300 mg/kg

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LD50 Oral - Rat - 1.560 mg/kg

Notes: Liver: Disordered liver functions. Nutritional and gross metabolism: changes in: reduction of body temperature (RTECS)

Inhalation: No data available

Assessment of acute toxicity Dermal - 1,100.1 mg/kg (Expert decision)

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

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

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

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

Corrosion/Skin irritation

| | | |
|---------------------------|---|-------------------|
| Method | : | LD50 |
| Species | : | rabbit |
| Routes of exposure | : | dermal |
| Effective dose | : | > 5g/kg |
| Exposure time | : | - |

ISOEUGENOL

Skin - Rabbit

Result: Skin irritation, Notes: (RTECS)

Linalool (Cas: 78-70-6)

Dermal Route: Ld50=5610mg/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)

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



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Notes : Not to be classified as corrosive/irritant to skin

Serious damage/eye irritation

Eugenol

Causes serious eye irritation.

Result : Splashes and vapors in the eyes may cause serious irritation and tear secretion.

Respiratory or skin sensitization

*EUGENOL(CAS: 97-53-0)
in vivo assay-Mouse(Eugenol).
(OECD Test Guideline 429)*

May cause allergic skin reaction.

ISOEUGENOL

Maximization test - Guinea pig

Result: positive (OECD Test Guideline 406)

Notes: Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2)

Ingestion

Note : The product may be harmful if swallowed.

Mutagenicity of germ cells

Rat (eugenol), Liver, DNA damage

Mouse (eugenol), lymphocytes

Mutation in mammalian somatic cells.

Hamster (eugenol) embryo

DNA synthesis

Hamster (eugenol) embryo

Morphological transformations.

Hamster (eugenol) embryo



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Carcinogenicity

IARC: 3-Group3 : Cannot be classified related to its carcinogenicity to people (Eugenol)

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

Summary of the assessment of CMR properties

Note : No data available

STOT (specific target organ toxicity) — single exposure

Note : No data available

STOT (specific target organ toxicity) — repeated exposure

Note : No data available

Aspiration hazard

ISOEUGENOL

Inhalation - May cause irritation of the respiratory tract.

Information on possible routes of exposure

Note : No data available

Symptoms related to physical, chemical and toxicological characteristics

Note : 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



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Lack of specific data

Note : Toxicological characteristics are not comprehensively studied

Mixtures

Note : Toxicological characteristics are not comprehensively studied

Medical consideration

Note : Toxicological characteristics are not comprehensively studied

Other information

Note : The toxicological classification is based on the information on the content and the information available at that time.

11.2. Properties disturbing the functions of the endocrine system

Note : No data available

12. Ecological information

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

12.1. Toxicity

Product:

Acute (short-term) toxicity:

Fish

Biological species : Leuciscus idus
Exposure period : 96 h
Value type : LC50
Value : 5.7 mg/l

Eugenol
LC50 13 mg/l fish ECHA 96 h



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Linalool

LC50 27,8 mg/l fish ECHA 96 h

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

Patchoulol

Fish toxicity – H411.

Patchoulol 5986-55-0 EC50 5,5 mg/l aquatic invertebrates 48 h

Toxic for Daphnia and other aquatic invertebrates

Eugenol

EC50 1,05 mg/l aquatic invertebrates ECHA 48 h

EC50-Daphnia (waterflea)-1.13mg/l-48h (Eugenol).

ISOEUGENOL

EC50 - Daphnia (waterflea) - 7,5 mg/l - 48 h

EC50 - Daphnia (waterflea) - 4,8 mg/l - 48 h

Notes: (calculated)

Linalool 78-70-6

EC50 59 mg/l aquatic invertebrates 48 h

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

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

Algae/aquatic plants

Eugenol

ErC50 24 mg/l algae ECHA 72 h

Linalool

ErC50 156,7 mg/l algae ECHA 96 h

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

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

Patchoulol 5986-55-0 ErC50 21 mg/l algae 72 h

Bacteria

Linalool

EC50 >100 mg/l microorganisms ECHA 30 min



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Chronic (long-term) toxicity:

Note : No data available

Fish

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

Shellfish

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

Algae/water plants

Note : No data available

Other organisms

Note : No data available

12.2. Persistence and degradability

Product:

Abiotic degradation

Degradation of mixture components

Eugenol - biotic/abiotic 82 % 28 d

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

*D-(+)-limonene 5989-27-5 generation of carbon dioxide 58,8 % 14 d ECHA
D-(+)-limonene 5989-27-5 oxygen depletion 80 % 28 d ECHA*

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

Patchoulol 5986-55-0 oxygen depletion 70 % 28 d ECHA

12.3. Bioaccumulation

Product: No data available



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Bioaccumulation potential of mixture components:

Eugenol log KOW 1,83 (pH value: 5,5, 30°C) (ECHA)

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

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

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

Patchoulol 5986-55-0 5,5 (25°C)

Partition coefficient n-octanol/water (log Kow)

Note : No data available

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 highly persistent nor highly bioaccumulative vPvB.

This product doesn't contain substances considered persistent, bioaccumulative or toxic PBT.

Product:

Results from PBT and vPvB assessment

Note : No data available

12.6. Other adverse effects

Product:

Biochemical oxygen demand (BOD)

Value : No data available



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Chemical oxygen demand (COD)

Value : No data available

Additional ecological information/Mobility in soil

Notes : Do not wash in surface waters.

12.7. Additional information

Notes : Do not wash in surface waters.

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

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



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13.3. Notes

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

14. Transport Information



Transport
Icon

: Class: 9 Miscellaneous dangerous substances and articles

14.1. UN number

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

14.2. UN proper shipping name

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

14.3. Transport hazard class(es)

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

14.4. Packing group

| | |
|-------------|-----|
| ADR/RID/ADN | III |
| IMDG Code | III |



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ICAO-TI

III

14.5. Environmental hazards

Hazardous to the aquatic environment

14.6. Special precautions for user

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

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

The cargo is not intended for transport in bulk.

14.8. Information on all UN Model rules

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

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Details in the transport document UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., Oil of Patchouli 9, III, (-)

Classification code M6

Hazard label(s).



9, "Fish and wood"

Environmental hazards yes (Harmful to aquatic life)

Special provisions (SP) 274, 335, 375, 601

Excluded quantities (EQ) E1

Limited quantities (LQ) 5 L

Transport category (TC) 3

Tunnel restrictions code (TRC) -



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Identif. Hazard No 90

International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

The details as per the shipper's declaration UN3082, ENVIRONMENTALLY, HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Oil of patchouli)

Marine pollutant yes (Harmful to aquatic life), (Oil of patchouli)
Hazard label(s). 9, "Fish and wood"



Special provisions (SP) 274, 335, 969

Excluded quantities(EQ) E1

Limited quantities(LQ) 5 L

EmS F-A, S-F

Storage category A

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

Proper shipping name Environmentally hazardous substance, liquid, n.o.s.

The details as per the shipper's Declaration UN3082, Environmentally hazardous substance liquid, n.o.s., (Oil of patchouli) 9, III

Environmental hazards yes (Harmful to aquatic life)

Hazard label(s). 9, "Fish and wood"



Special provisions (SP) A97, A158, A197, A215

Excluded quantities (EQ) E1

Limited quantities (LQ) 30kg



15. Regulatory information

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

The relevant European Union (EU) regulations Restrictions according to REACH Annex XVII

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

Legend

R3 1. Shall not be used in:

- ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays;
- tricks and jokes;
- games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

2. Articles not complying with paragraph 1 shall not be placed on the market.

3. Shall not be placed on the market if they contain a colouring agent, unless required for fiscal reasons, or perfume, or both, if they:

- can be used as fuel in decorative oil lamps for supply to the general public, and,
- present an aspiration hazard and are labelled with risk phrase H304.

4. Decorative oil lamps for supply to the general public shall not be placed on the market unless they conform to the European Standard on Decorative oil lamps (EN 14059) adopted by the European Committee for Standardisation (CEN).

5. Without prejudice to the implementation of other Community provisions relating to the classification, packaging and labelling of dangerous substances and mixtures, suppliers shall ensure, before the placing on the market, that the following requirements are met:

- a) lamp oils, labelled with risk phrase H304, intended for supply to the general public are visibly, legibly and indelibly marked as follows: "Keep lamps filled with this liquid out of the reach of children"; and, by 1 December 2010, "Just a sip of lamp oil — or even sucking the wick of lamps — may lead to life-threatening lung damage";
- b) grill lighter fluids, labelled with risk phrase H304, intended for supply to the general public are legibly and indelibly marked by 1 December 2010 as follows: "Just a sip of grill lighter may lead to life threatening lung damage";
- c) lamp oils and grill lighters, labelled with risk phrase H304, intended for supply to the general public are packaged in black opaque containers not exceeding 1 litre by 1 December 2010;

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

- metallic glitter intended mainly for decoration,
- artificial snow and frost,
- 'whoopee' cushions,
- silly string aerosols,
- imitation excrement,
- horns for parties,
- decorative flakes and foams,
- artificial cobwebs,
- stink bombs.

2. Without prejudice to the application of other Community provisions on the classification, packaging and labelling of substances, suppliers shall ensure before the placing on the market that the packaging of aerosol dispensers referred to above is marked visibly, legibly and indelibly with: 'For professional users only'.

3. By way of derogation, paragraphs 1 and 2 shall not apply to the aerosol dispensers referred to Article 8 (1a) of Council Directive 75/324/EEC (2).



4. The aerosol dispensers referred to in paragraphs 1 and 2 shall not be placed on the market unless they conform to the requirements indicated.

R75 1. Shall not be placed on the market in mixtures intended for tattooing, and mixtures, containing any of these substances, shall not be used for tattooing purposes after 4 January 2022, if the substance or substances in question are present in the following circumstances:

- a) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as carcinogenic, category 1A, 1B or 2, or mutagenic to germ cells, category 1A, 1B or 2, the substance is present in the mixture in a concentration equal to or greater than 0.00005 weight percent;
- b) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as toxic for reproduction, category 1A, 1B or 2, the substance is present in the mixture at a concentration equal to or greater than 0.001 weight percent;
- c) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as a skin sensitiser, category 1, 1A or 1B, the substance is present in the mixture in a concentration equal to or greater than 0.001 weight percent;
- d) in the case of a substance classified in Part 3 of Annex VI to Regulation (EC) No 1272/2008 as causing skin corrosion, category 1, 1A, 1B or 1C, or skin irritation, category 2, the substance is present in the mixture in a concentration equal to or greater than:
 - i) 0.1 weight percent if the substance is used solely as a pH regulator;
 - ii) 0.01 weight percent in all other cases;
- e) in the case of a substance classified in Annex II to Regulation (EC) No 1223/2009 (*1), the substance is present in the mixture in a concentration equal to or greater than 0.00005 weight percent;
- f) in the case of a substance for which a condition is indicated for one or more of the following types in column g (Type of product, body parts) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration equal to or greater than 0.00005 weight percent:
 - i) „Rinse-off products“
 - ii) „Not to be used in products for application on mucous membranes“;
 - iii) „Not to be used in eye products“;
- g) in the case of a substance for which a condition is specified in column h (Maximum concentration in the ready-to-use preparation) or column i (Other) of the table in Annex IV to Regulation (EC) No 1223/2009, the substance is present in the mixture in a concentration or otherwise not meeting the condition specified in this column;

h) in the case of a substance listed in Appendix 13 to this Annex, the substance is present in the mixture in a concentration equal to or greater than the concentration limit specified for that substance in that Appendix.

2. For the purposes of this entry the use of a mixture "for tattooing" means the injection or introduction of the mixture into the skin, mucous membrane or eyeball of a person by a process or procedure (including procedures commonly referred to as "permanent makeup", "cosmetic tattooing", "microblading" and "micropigmentation") aimed at achieving a mark or drawing on his body.

3. If a substance not listed in Appendix 13 falls within the scope of more than one of points a) to g) of paragraph 1, the most stringent concentration limit established in those points shall apply to that substance. If a substance listed in Appendix 13 also falls within the scope of one or more of points a) to g) of paragraph 1, the concentration limit set out in point h) of paragraph 1 applies to that substance.

4. By way of derogation, paragraph 1 shall not apply to the following substances until 4 January 2023:

- a) Pigment Blue 15:3 (CI 74160, EO number 205-685-1, CAS number 147-14-8);
- b) Pigment Green 7 (CI 74260, EO number 215-524-7, CAS number 1328-53-6).

5. If Part 3 of Annex VI to Regulation (EC) No 1272/2008 is amended after 4 January 2021 to classify or reclassify a substance so that it falls under points a), b), c) or (d) of paragraph 1 of this entry or falls under a different point from that in which it previously fell, and the date of application of that new or revised classification is after the date specified in paragraph 1 or, as the case may be, in paragraph 4 of this entry, then, for the purposes of applying this entry to the specified substance, that amendment shall be treated as coming into force on the date of application of that new or revised classification.

6. If Annex II or Annex IV to Regulation (EC) No 1223/2009 is amended after 4 January 2021 to add a substance to the list or to change its entry so that it falls under points e), f) or g) of paragraph 1 of this entry, or fall in a different point from that in which it previously fell, and the amendment takes effect after the date specified in paragraph 1 or, as the case may be, paragraph 4 of this entry, then for the purposes of the application of this entry in relation to the specified substance, this amendment shall be treated as coming into force 18 months after the entry into force of the act which the said amendment is made by.



7. Suppliers that place on the market a mixture intended for tattooing shall ensure that, after 4 January 2022, the following information is indicated on the label of the mixture:

- a) the text "Mixture intended for tattoos or permanent make-up";
- b) a unique lot identification reference number;
- c) the list of ingredients in accordance with the nomenclature established with the Glossary of common ingredient names pursuant to Article 33 of Regulation (EC) No 1223/2009, or in the absence of a common name of an ingredient, the IUPAC name. In the absence of a name or IUPAC name, the CAS number and the EC number. Ingredients are listed in descending order by weight or volume of ingredients at the time of formulation. "Ingredient" means any substance added during the formulation process and present in the mixture intended for tattooing. Impurities are not considered ingredients. If there is already a requirement for the name of a substance used as an ingredient within the meaning of this entry to be indicated on the label in accordance with Regulation (EC) No 1272/2008, this ingredient is not necessary to be indicated in accordance with this regulation;
- d) the additional text "pH regulator" for substances covered by paragraph 1, letter d), subsection i);
- e) the text "Contains nickel. May cause allergic reactions.", if the mixture contains nickel below the limit concentration, specified in Appendix 13;
- f) the text "Contains chromium (VI). May cause allergic reactions.", if the mixture contains chromium (VI) below the concentration limit, specified in Appendix 13;
- g) instructions for safe use to the extent that until now, according to Regulation (EC) No 1272/2008, they were not required to be indicated on the label. The information is clearly visible, easy to read and marked to be indelible. The information shall be written in the official language(s) of the Member State(s) in which the mixture is placed on the market, unless otherwise provided in the Member State(s) concerned. Where this is required due to the size of the package, the information referred to in the first paragraph, with the exception of letter a), shall instead be included in the instructions for use. Before using a mixture for the purpose of tattooing, the person using the mixture shall provide the person undergoing the procedure with the information marked on the packaging or included in the instructions for use under this paragraph.

8. Mixtures which labels do not contain the text "Mixture intended for tattooing or permanent make-up" are not used for the purpose of tattooing.

9. This entry does not apply to substances which are gases at a temperature of 20 °C and a pressure of 101,3 kPa or generate a vapor pressure of more than 300 kPa at a temperature of 50 °C, with the exception of formaldehyde (CAS number 50-00-0, EC number 200-001-8).

10. This entry does not apply to the placing on the market of a mixture intended for tattooing or to the use of a mixture for the purposes of tattooing when it is placed on the market exclusively as a medical device or an accessory to a medical device within the meaning of Regulation (EU) 2017/745, or when used exclusively as a medical device or accessory to a medical device in the same sense. When the placing on the market or use may not be exclusively as a medical device or accessory to a medical device, the requirements under Regulation (EU) 2017/745 and under this Regulation shall apply cumulatively.

List of substances subject to authorization (REACH, Annex XIV)/SVHC - list of candidate substances

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

Seveso Directive

| 2012/18/EC (Seveso III) | | | |
|-------------------------|--|---|-------|
| No. | Hazardous substance/hazard categories | Threshold quantity (in tonnes) for the application of the requirements at low and high risk potential | Notes |
| E1 | environmental hazards (hazardous to the aquatic environment, cat. 2) | 200 500 | 57) |

Notation

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



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

None of the ingredients are listed.

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

None of the ingredients are listed.

Water Framework Directive (WFD)

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

Legend

A) Recommended list of major pollutants

Regulation on the marketing and use of explosives precursors

None of the ingredients are listed.

Regulation on drug precursors

None of the ingredients are listed.

Regulation on substances that deplete the ozone layer (ODS)

None of the ingredients are listed.

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

None of the ingredients are listed.

Persistent Organic Pollutants (POP) Regulation

None of the ingredients are listed.

Other information



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

The following restrictions are applicable according to Annex XVII to Regulation (EC) No. 1907/2006 of REACH

| | |
|---|--|
| 3. Liquid substances or mixtures which are regarded as dangerous set out in Annex I to Regulation (EC) No 1272/2008 | Pogostemon Cablin Leaf Oil, Patchouli Alcohol (Patchoulol), Alpha-Guaiene, Eugenol, Isoeugenol, Limonene, Linalool, Beta-Caryophyllene |
| 3a. Substances or mixtures meeting the criteria for any of the following hazard classes or categories listed in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8, type A and B, 2.9 , 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 | Limonene |
| 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 | Pogostemon Cablin Leaf Oil, Alpha-Guaiene, Eugenol, Isoeugenol, Limonene, Linalool, Beta-Caryophyllene |
| 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 | Pogostemon Cablin Leaf Oil, Patchouli Alcohol (Patchoulol), Limonene |

National inventories

| State | List | Status |
|-------|-------|--------------------------|
| AU | AICS | the substance is entered |
| CA | DSL | the substance is entered |
| CN | IECSC | the substance is entered |
| EU | ECSI | the substance is entered |
| KR | KECI | the substance is entered |
| NZ | NZIoC | the substance is entered |
| PH | PICCS | the substance is entered |
| TW | TCS | the substance is entered |
| US | TSCA | the substance is entered |

Legend

| | |
|------------|---|
| AICS | Australian Inventory of Chemical Substances |
| CICR | Chemical Inventory and Control Regulation |
| DSL | Domestic Substances List (DSL) |
| ECSI | EC list of substances (EINECS, ELINCS, NLP) |
| 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 |
| TSCA | Toxic Substance Control Act |



15.2. Chemical Safety Assessment

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

16. Other information

Shelf life 30 months from the date of manufacture.

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

Main references and literature data sources

Regulation (EC) No. 1272/2008 on classification, labeling and packaging of substances and mixtures (Classification, Labeling and Packaging). Regulation (EC) No. 1907/2006 (REACH), as amended by 2020/878/EU.

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

Classification procedure

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

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

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

Abbreviations and acronyms:

| Abbr. | Description of used abbreviations |
|-------------------|---|
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement on the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement on the International Carriage of Dangerous Goods by Road) |
| Aquatic Chronic 2 | hazardous to the aquatic environment - chronic hazard |
| Asp Tox 1 | Inhalation hazard |
| BCF | bioconcentration factor |
| BOD | Biochemical Oxygen Demand |
| CAS | Chemical Abstracts Service (prepares the most comprehensive list of chemicals) |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (Classification, Labelling and Packaging) |



| | |
|-----------------------|--|
| CMR | Carcinogenic, mutagenic and toxic for reproduction (substance) |
| COD | Chemical oxygen demand |
| DGR | Dangerous Goods Regulations (see IATA/DGR)) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No-Effect Level |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| Eye irrit. | Eye irritation |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" , developed by the United Nations |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods Code |
| log KOW | n-octanol/water |
| MARPOL | International Convention on Prevention of Pollution from Ships (abbr. to "Marine Pollutant") |
| NLP | A substance that no longer has the properties of a polymer |
| PBT | Persistent, bioaccumulative and toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulation on Carriage of Dangerous Goods by Rail) |
| Skin Sens. | Skin sensitization |
| vPvB | very Persistent and very Bioaccumulative |
| EO No. EU List | (EINECS, ELINCS и NLP-list) is the source for the seven-digit EC number, identifier of substances in the commercial network within the EU (European Union) |
| Index No. | the index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008 |
| VOC | Volatile Organic Compounds |

Main references and sources of data in the literature

- Regulation (EC) No 1907/2006 (REACH), as amended by 2020/878/EU
- Regulation (EC) No 1272/2008 (CLP, EC GHS)

| | List of relevant phrases (code and full text as defined in Section 2 and 3) |
|-------------|---|
| Code | Text |
| H304 | May be fatal if swallowed and enters the respiratory tract. |
| H317 | May cause allergic skin reaction |
| H319 | Causes serious eye irritation |
| H411 | Toxic to aquatic life with long-lasting effect |
| EUH208 | Contains alpha-Bulnesene, Patchoulol, Eugenol, Isoeugenol, Limonene, Linalool, Beta-Caryophyllene. May cause allergic reaction. |
| | List of instructions for safe treatment, used in the safety document |
| P102 | Keep away from children |



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| | |
|-------------|---|
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray. |
| P273 | Avoid release in the environment |
| P280 | Use protective gloves/protective clothing/protective goggles/protective facial mask. |
| P301 + P310 | IF SWALLOWED: Immediately call a doctor/physician. |
| P331 | Do NOT induce vomiting. |
| P333 + P313 | In case of skin irritation or skin rash: Seek medical advice / assistance. |
| P337 + P313 | If eye irritation persists: Get medical advice/attention. |
| P305+P351+ | IF CONTACT WITH EYES: Rinse thoroughly with water for several minutes. Remove the contact lenses if there are such and if possible. Continue rinsing. |
| P338 | |
| P391 | Collect the spillage. |
| P405 | Store locked up. |
| P501 | Dispose of the content / container in an approved for disposal place in compliance with the local and national regulations. |

| | |
|--------------------------|--|
| Other information | <p>: 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.</p> <p>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.</p> |
|--------------------------|--|

| | |
|-------------------|--|
| Disclaimer | <p>: 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</p> |
|-------------------|--|



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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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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 Patchouli Oil (Pogostemon Cablin Leaf Oil) – v.02/20.11.2023

| | NAME OF SUBSTANCES | CAS No. | EINECS No. | NATURAL % | SYN % | TOTAL % |
|----|---|------------|------------|-------------|-------|-------------|
| 1 | AMYL CINNAMAL | 122-40-7 | 204-541-5 | - | - | - |
| 2 | AMYLCINNAMYL ALCOHOL | 101-85-9 | 202-982-8 | - | - | - |
| 3 | ANISE ALCOHOL | 105-13-5 | 203-273-6 | - | - | - |
| 4 | BENZYL ALCOHOL | 100-51-6 | 202-859-9 | - | - | - |
| 5 | BENZYL BENZOATE | 120-51-4 | 204-402-9 | - | - | - |
| 6 | BENZYL CINNAMATE | 103-41-3 | 203-109-3 | - | - | - |
| 7 | BENZYL SALICYLATE | 118-58-1 | 204-262-9 | - | - | - |
| 8 | CINNAMAL | 104-55-2 | 203-213-9 | - | - | - |
| 9 | CINNAMYL ALCOHOL | 104-54-1 | 203-212-3 | - | - | - |
| 10 | CITRAL | 5392-40-5 | 226-394-6 | - | - | - |
| 11 | CITRONELLOL | 106-22-9 | 203-375-0 | - | - | - |
| 12 | COUMARIN | 91-64-5 | 202-086-7 | - | - | - |
| 13 | EUGENOL | 97-53-0 | 202-589-1 | 0,01-0,4 | - | 0,01-0,4 |
| 14 | FARNESOL | 4602-84-0 | 225-004-1 | - | - | - |
| 15 | ALPHA-ISOMETHYL IONONE | 127-51-5 | 204-846-3 | - | - | - |
| 16 | GERANIOL | 106-24-1 | 203-377-1 | - | - | - |
| 17 | HEXYL CINNAMAL | 101-86-0 | 202-983-3 | - | - | - |
| 18 | HYDROXYCITRONELLAL | 107-75-5 | 203-518-7 | - | - | - |
| 19 | ISOEUGENOL | 97-54-1 | 202-590-7 | 0,01 – 0,5 | - | 0,01 – 0,5 |
| 20 | BUTYLPHENYL METHYLPROPIONAL (LILIAL) | 80-54-6 | 201-289-8 | - | - | - |
| 21 | LIMONENE | 5989-27-5 | 227-813-5 | 0,01 – 0,15 | - | 0,01 – 0,15 |
| 22 | LINALOOL | 78-70-6 | 201-134-4 | 0,01 – 0,15 | - | 0,01 – 0,15 |
| 23 | HYDROXYISOHEXYL 3- CYCLOHEXENE CARBOXALDEHYDE (LYRAL) | 31906-04-4 | 250-863-4 | - | - | - |
| 24 | METHYL 2-OCTYNOATE | 111-12-6 | 203-836-6 | - | - | - |
| 25 | EVERNIA FURFURACEA LICHEN EXTRACT (TREEMOSS EXTRACT) | 90028-67-4 | 289-860-8 | - | - | - |
| 26 | EVERNIA PRUNASTRI (OAK MOSS) | 90028-68-5 | 289-861-3 | - | - | - |
| 27 | BETA-CARYOPHYLLENE | 87-44-5 | 201-746-1 | 1,0 – 5,0 | - | 1,0 – 5,0 |

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 in Article 6(1)(g) when its concentration exceeds:—
0,001 % in “leave-on” products, (and)— **0,01 %** in “rinse-off” products