

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Cinnamon Leaf Essential Oil

Creation date: 12.09.2026, Revision: 12.09.2026, Version: 1.0

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

##### Product name

Cinnamon Leaf Essential Oil

**Name:** eugenol (CAS: 97-53-0, EC: 202-589-1)

##### Product code

[AC00253]

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

##### Relevant identified uses

Fragrances / Cosmetic / Flavours

##### Uses advised against

No information.

#### 1.3 Details of the supplier of the safety data sheet

##### Supplier

Farmadria DOO - Avena Chem  
Heroja Pinkija 44  
26300 Vršac, Serbia  
0695565029  
info@avenachem.com  
<https://avenachem.com/>

#### 1.4 Emergency Telephone Number

##### Emergency

112

##### Supplier

0695565029

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

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

Skin Sens. 1A; H317 May cause an allergic skin reaction.

Eye Irrit. 2; H319 Causes serious eye irritation.

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Carc. 1B; H350 May cause cancer.

Aquatic Chronic 2; H411 Toxic to aquatic life with long lasting effects.

### 2.2 Label elements

#### Labelling according to Regulation (EC) No 1272/2008 (CLP)



Signal word: **DANGER**

#### Hazard statements:

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H350 May cause cancer.

H411 Toxic to aquatic life with long lasting effects.

#### Supplemental hazard information (EU):

Not applicable.

#### Precautionary statements:

P202 Do not handle until all safety precautions have been read and understood.

P272 Contaminated work clothing should not be allowed out of the workplace.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308 + P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with national regulation.

#### Contains:

eugenol  
beta-Caryophyllene  
linalool  
cinnamaldehyde  
alpha-phellandrene  
cineole  
geraniol  
farnesol  
limonene  
cinnamaldehyde  
p-mentha-1,3-diene  
Safrole  
isoeugenol  
Terpinolene

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### 2.3 Other hazards

#### PBT/vPvB

No information.

#### Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

#### Additional information

No information.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

| Name                   | CAS<br>EC<br>Index<br>REACH          | %       | Classification<br>according to<br>Regulation<br>(EC) No<br>1272/2008<br>(CLP) | Specific<br>Concentration<br>Limits | Notes for<br>substances |
|------------------------|--------------------------------------|---------|-------------------------------------------------------------------------------|-------------------------------------|-------------------------|
| eugenol                | 97-53-0<br>202-589-1<br>-            | > 50 %  | Skin Sens.<br>1B; H317<br>Eye Irrit. 2;<br>H319                               | /                                   | /                       |
| beta-<br>Caryophyllene | 87-44-5<br>201-746-1<br>-            | [ 1-5 ] | Asp. Tox. 1;<br>H304<br>Skin Sens.<br>1B; H317                                | /                                   | /                       |
| linalool               | 78-70-6<br>201-134-4<br>603-235-00-2 | [ 1-5 ] | Skin Irrit. 2;<br>H315<br>Skin Sens.<br>1B; H317<br>Eye Irrit. 2;<br>H319     | /                                   | /                       |

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|                        |                                       |         |                                                                                                                                                    |                                      |   |
|------------------------|---------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|---|
| cinnamaldehy<br>de     | 104-55-2<br>203-213-9<br>-            | [ 1-5 ] | Skin Irrit. 2;<br>H315<br>Skin Sens.<br>1A; H317<br>Eye Irrit. 2;<br>H319<br>Aquatic<br>Chronic 3;<br>H412                                         | Skin Sens.<br>1A; H317; C ≥<br>0.01% | / |
| benzyl<br>benzoate     | 120-51-4<br>204-402-9<br>607-085-00-9 | [ 1-5 ] | Acute Tox. 4;<br>H302<br>Aquatic Acute<br>1; H400; M = 1<br>Aquatic<br>Chronic 2;<br>H411                                                          | oral: ATE =<br>1160 mg/kg<br>bw      | / |
| alpha-<br>phellandrene | 99-83-2<br>202-792-5<br>-             | [ 1-5 ] | Flam. Liq. 3;<br>H226<br>Asp. Tox. 1;<br>H304<br>Skin Sens.<br>1A; H317<br>Aquatic Acute<br>1; H400; M = 1<br>Aquatic<br>Chronic 1;<br>H410; M = 1 | /                                    | / |
| Eugenyl<br>Acetate     | 93-28-7<br>202-235-6<br>-             | [ 1-5 ] | Acute Tox. 4;<br>H302                                                                                                                              | oral: ATE =<br>1670 mg/kg<br>bw      | / |
| Camphene               | 79-92-5<br>201-234-8<br>-             | [ 0-1 ] | Flam. Sol. 2;<br>H228<br>Eye Irrit. 2;<br>H319<br>Aquatic Acute<br>1; H400; M = 1<br>Aquatic<br>Chronic 1;<br>H410; M = 1                          | /                                    | / |
| cineole                | 470-82-6<br>207-431-5<br>-            | [ 0-1 ] | Flam. Liq. 3;<br>H226<br>Skin Sens.<br>1B; H317                                                                                                    | /                                    | / |

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|                                    |                                        |         |                                                                                                                                                                       |   |   |
|------------------------------------|----------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|
| geraniol                           | 106-24-1<br>203-377-1<br>-             | [ 0-1 ] | Skin Irrit. 2;<br>H315<br>Skin Sens.<br>1A; H317<br>Eye Dam. 1;<br>H318                                                                                               | / | / |
| 7-methyl-3-methylene-1,6-octadiene | 123-35-3<br>204-622-5<br>-             | [0-1]   | Flam. Liq. 3;<br>H226<br>Asp. Tox. 1;<br>H304<br>Skin Irrit. 2;<br>H315<br>Eye Irrit. 2;<br>H319<br>Aquatic Acute<br>1; H400; M = 1<br>Aquatic<br>Chronic 2;<br>H411  | / | / |
| farnesol                           | 4602-84-0<br>225-004-1<br>-            | [ 0-1 ] | Skin Irrit. 2;<br>H315<br>Skin Sens.<br>1B; H317<br>Eye Irrit. 2;<br>H319<br>Aquatic Acute<br>1; H400; M = 1<br>Aquatic<br>Chronic 1;<br>H410; M = 1                  | / | / |
| limonene                           | 5989-27-5<br>205-341-0<br>601-029-00-7 | [ 0-1 ] | Flam. Liq. 3;<br>H226<br>Asp. Tox. 1;<br>H304<br>Skin Irrit. 2;<br>H315<br>Skin Sens.<br>1B; H317<br>Aquatic Acute<br>1; H400; M = 1<br>Aquatic<br>Chronic 3;<br>H412 | / | / |

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|                    |                                      |         |                                                                                                                                                                            |                                                                  |   |
|--------------------|--------------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|---|
| cinnamaldehyde     | 104-54-1<br>203-212-3<br>-           | [ 0-1 ] | Acute Tox. 4;<br>H302<br>Skin Sens.<br>1B; H317                                                                                                                            | oral: ATE =<br>2000 mg/kg<br>bw                                  | / |
| p-mentha-1,3-diene | 99-86-5<br>202-795-1<br>-            | [0-1]   | Flam. Liq. 3;<br>H226<br>Acute Tox. 4;<br>H302<br>Asp. Tox. 1;<br>H304<br>Skin Sens.<br>1A; H317<br>Eye Irrit. 2;<br>H319<br>Aquatic<br>Chronic 2;<br>H411                 | oral: ATE =<br>1680 mg/kg<br>bw                                  | / |
| Safrole            | 94-59-7<br>202-345-4<br>605-002-00-9 | [0-1]   | Acute Tox. 4;<br>H302<br>Muta. 2; H341<br>Carc. 1B;<br>H350                                                                                                                | oral: ATE =<br>1950 mg/kg<br>bw                                  | / |
| isoeugenol         | 97-54-1<br>202-590-7<br>-            | [ 0-1 ] | Acute Tox. 4;<br>H302<br>Acute Tox. 4;<br>H312<br>Skin Irrit. 2;<br>H315<br>Skin Sens.<br>1A; H317<br>Eye Irrit. 2;<br>H319<br>Acute Tox. 4;<br>H332<br>STOT SE 3;<br>H335 | oral: ATE =<br>542 mg/kg bw<br>dermal: ATE =<br>1912 mg/kg<br>bw | / |
| p-cymene           | 99-87-6<br>202-796-7<br>601-094-00-1 | [0-1]   | Flam. Liq. 3;<br>H226<br>Asp. Tox. 1;<br>H304<br>Acute Tox. 3;<br>H331<br>Repr. 2; H361<br>Aquatic<br>Chronic 2;<br>H411                                                   | /                                                                | / |

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|             |                            |       |                                                                                                                        |   |   |
|-------------|----------------------------|-------|------------------------------------------------------------------------------------------------------------------------|---|---|
| Terpinolene | 586-92-6<br>209-578-0<br>- | [0-1] | Asp. Tox. 1;<br>H304<br>Skin Sens.<br>1B; H317<br>Aquatic Acute 1; H400; M = 1<br>Aquatic<br>Chronic 1;<br>H410; M = 1 | / | / |
|-------------|----------------------------|-------|------------------------------------------------------------------------------------------------------------------------|---|---|

### 3.2 Mixtures

Not applicable. For substances, see Section 3.1.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. When it is suspected, that there may still be harmful vapours/fumes present in the air, respiratory protection (mask; self contained breathing apparatus) must be used. Wash contaminated clothing with water before removing or use gloves.

#### Following inhalation

Remove patient to fresh air - move out of dangerous area. In case of unconsciousness bring patient into stable side position and seek medical attention. If breathing is irregular or respiratory arrest occurs, provide artificial respiration. Keep at rest in a position comfortable for breathing. Seek medical help immediately.

#### Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. Consult a physician.

#### Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. Seek medical help.

#### Following ingestion

Do not induce vomiting! Aspiration hazard if swallowed. Can enter lungs and cause damage. If vomiting occurs, the patient should hold the head lower than the hips, because it reduces the possibility of aspiration. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Immediately consult a doctor. Show the physician the safety data sheet or label.

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

#### Following inhalation

Excessive exposure to spray mist, fog, or vapours may cause respiratory irritation.

#### Following skin contact

Contact with skin may cause irritation (redness, itching). May cause sensitisation by skin contact (itching, redness, rashes).

#### Following eye contact

Redness, tearing, pain.

#### Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort. Irritates mucous membranes in the mouth, throat, esophagus and in gastrointestinal area. Aspiration into the lungs causes coughing, shortness of breath and may lead to chemical pneumonia.

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

Treat symptomatically. After the product has been ingested vomiting can cause aspiration into the lungs. Because of the risk of aspiration, induction of vomiting and gastric lavage should be avoided.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

#### Unsuitable extinguishing media

Full water jet.

### 5.2 Special hazards arising from the substance or mixture

#### Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

### 5.3 Advice for firefighters

#### Protective actions

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training.

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### Special protective equipment for firefighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

### Additional information

Contaminated firefighting water and fire residues must be disposed of in accordance with the local regulations.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

##### Protective equipment

No information.

##### Precautionary measures

Ensure adequate ventilation.

##### Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing.

#### For emergency responders

Use personal protective equipment.

### 6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

### 6.3 Methods and material for containment and cleaning up

#### For containment

Stem the spill if this does not pose risks.

#### For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Prevent release into the sewer, water, basements or confined areas. Ventilate the premises. Clean contaminated area with plenty of water.

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### Other information

No information.

### 6.4 Reference to other sections

See also sections 8 and 13.

## SECTION 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

#### Protective measures

##### Measures to prevent fire

Ensure adequate ventilation.

##### Measures to prevent aerosol and dust generation

Use general or local exhaust ventilation to prevent inhaling vapours and aerosols.

##### Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

##### Other measures

No information.

##### Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Do not breathe vapours/mist. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Technical measures and storage conditions

Keep in a cool, dry and well ventilated place. Keep away from food, drink and animal feeding stuffs.

##### Packaging materials

Store only in original container.

##### Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

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### Storage temperature

No information.

### Storage class

No information.

### Further information on storage conditions

No information.

### 7.3 Specific end use(s)

#### Recommendations

No information.

#### Industrial sector specific solutions

No information.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

#### Occupational Exposure limit values

No information.

#### Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

#### DNEL/DMEL values

##### For product

No information.

##### For components

No information.

#### PNEC values

##### For product

No information.

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### For components

No information.

### 8.2 Exposure controls

#### Appropriate engineering control

##### Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe vapours/aerosols.

##### Structural measures to prevent exposure

No information.

##### Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

##### Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

##### Personal protective equipment

###### Eye and face protection

Safety glasses with side protection (BS EN ISO 16321-1:2022/A1:2025).

###### Hand protection

Protective gloves (EN ISO 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The penetration time is determined by the protective glove manufacturer and must be observed.

##### Appropriate materials

No information.

##### Skin protection

Cotton protective clothing and shoes that cover the entire foot (BS EN ISO 20345:2022). At high risk of skin exposure chemical suits (BS EN 13034:2005+A1:2009) and boots may be required (BS EN ISO 20345:2022+A1:2024).

##### Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (BS EN 136) with filter A2-P2 (BS EN 14387). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard BS EN 137, BS EN 138.

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### Thermal hazards

No information.

### Environmental exposure controls

### Substance/mixture related measures to prevent exposure

No information.

### Instruction measures to prevent exposure

No information.

### Organisational measures to prevent exposure

No information.

### Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Important health, safety and environmental information

|                                                          |                                           |
|----------------------------------------------------------|-------------------------------------------|
| Physical state                                           | liquid                                    |
| Shape                                                    | No information.                           |
| Colour                                                   | Yellow to brownish yellow                 |
| Odour                                                    | Aromatic, spicy                           |
| Odour threshold                                          | No information.                           |
| Melting/freezing point or softening point                | No information.                           |
| Boiling point or initial boiling point and boiling range | Boiling point (°C) : -                    |
| Flammability                                             | No information.                           |
| Lower and upper explosion limit                          | No information.                           |
| Flash point                                              | 94 °C (Flash point (°C) (close cup) : 94) |

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|---------------------------------------------------|----------------------------------------------------|
| Auto-ignition temperature                         | No information.                                    |
| Decomposition temperature                         | No information.                                    |
| pH                                                | No information.                                    |
| Viscosity                                         | No information.                                    |
| Solubility (Water)                                | soluble Solubility ethanol : Yes                   |
| Partition coefficient n-octanol/water (log value) | No information.                                    |
| Vapour pressure                                   | No information.                                    |
| Density                                           | 1.035 at 20 °C (Density 20/20°C : [1.035 ; 1.055]) |
| Relative vapour/gas density                       | No information.                                    |
| Particle characteristics                          | No information.                                    |

### 9.2 Other information

#### Information with regard to physical hazard classes

No information.

#### Other safety characteristics

No information.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

No information.

### 10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

### 10.3 Possibility of hazardous reactions

No information.

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### 10.4 Conditions to avoid

No information.

### 10.5 Incompatible materials

No information.

### 10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### (a) Acute toxicity

##### For product

| Exposure route | Type             | Species | Time | Value | Method | Remark |
|----------------|------------------|---------|------|-------|--------|--------|
| orale          | LD <sub>50</sub> | /       | /    | mg/kg | /      | /      |

##### For components

| Name               | Exposure route | Type             | Species | Time | Value        | Method   | Remark |
|--------------------|----------------|------------------|---------|------|--------------|----------|--------|
| eugenol            | oral           | /                | /       | /    | 2500 mg/kg   | /        | /      |
| beta-Caryophyllene | oral           | LD <sub>50</sub> | rat     | /    | > 5000 mg/kg | /        | /      |
| beta-Caryophyllene | dermal         | LD <sub>50</sub> | rabbit  | /    | > 5000 mg/kg | /        | /      |
| linalool           | oral           | LD <sub>50</sub> | rat     | /    | 2790 mg/kg   | OECD 401 | /      |

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|-----------------|--------|------------------|--------|---|---------------|----------|------------------------------------------------------------------------------------------------|
| linalool        | dermal | LD <sub>50</sub> | rabbit | / | 5610 mg/kg    | OECD 402 | /                                                                                              |
| cinnamald ehyde | /      | /                | /      | / | 2220 mg/kg    | /        | ETAI : Non déterminé e                                                                         |
| cinnamald ehyde | /      | /                | /      | / | mg/kg         | /        | ETAI : Non déterminé e                                                                         |
| benzyl benzoate | oral   | ATE              | /      | / | 1160 mg/kg    | /        | ETAO : 1 160,00 mg/kg(Dét erminée)<br>ETAC : 0,00 mg/kg(Dét erminée)<br>ETAI : Non déterminé e |
| benzyl benzoate | dermal | LD <sub>50</sub> | rabbit | / | 4000 mg/kg    | /        | /                                                                                              |
| benzyl benzoate | oral   | LD <sub>50</sub> | rat    | / | 1500 mg/kg    | /        | /                                                                                              |
| Eugenyl Acetate | oral   | ATE              | /      | / | 500 mg/kg     | /        | /                                                                                              |
| Camphen e       | oral   | LD <sub>50</sub> | rat    | / | 5000 mg/kg    | /        | /                                                                                              |
| Camphen e       | dermal | LD <sub>50</sub> | rabbit | / | 2500 mg/kg    | /        | /                                                                                              |
| cineole         | oral   | /                | /      | / | 2479.97 mg/kg | /        | /                                                                                              |
| geraniol        | oral   | /                | /      | / | 3600 mg/kg    | /        | /                                                                                              |

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|------------------------------------|------------|------------------|--------|---|------------------|----------|-------------------------------------------------------|
| 7-methyl-3-methylene-1,6-octadiene | oral       | LD <sub>50</sub> | rat    | / | > 11390 mg/kg bw | /        | /                                                     |
| 7-methyl-3-methylene-1,6-octadiene | oral       | LD <sub>50</sub> | mouse  | / | > 3380 mg/kg bw  | /        | /                                                     |
| 7-methyl-3-methylene-1,6-octadiene | dermal     | LD <sub>50</sub> | rabbit | / | > 5000 mg/kg bw  | OECD 402 | /                                                     |
| farnesol                           | dermal     | LD <sub>50</sub> | rabbit | / | > 5000 mg/kg     | /        | /                                                     |
| farnesol                           | oral       | LD <sub>50</sub> | rat    | / | 6 g/kg           | /        | /                                                     |
| farnesol                           | oral       | ATE              | /      | / | 6000 mg/kg       | /        | /                                                     |
| cinnamald ehyde                    | oral       | /                | /      | / | 2000 mg/kg       | /        | /                                                     |
| p-mentha-1,3-diene                 | oral       | /                | /      | / | 1680 mg/kg       | /        | ETAO : 1 680,00 mg/kg(Dét erminée)                    |
| isoeugeno l                        | oral       | LD <sub>50</sub> | rat    | / | 1500 mg/kg       | /        | /                                                     |
| isoeugeno l                        | dermal     | LD <sub>50</sub> | rat    | / | 1100 mg/kg       | /        | /                                                     |
| isoeugeno l                        | inhalation | LC <sub>50</sub> | /      | / | > 20 mg/L        | /        | /                                                     |
| p-cymene                           | /          | ATE              | /      | / | 4750 mg/kg       | /        | p-Cymene Natural (rep. 2) ETAO : 4 750,00 mg/kg(Dét - |

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|                 |   |     |   |   |          |   |   |                                                                                                                                                          |
|-----------------|---|-----|---|---|----------|---|---|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| ...             |   |     |   |   |          |   |   | erminée)<br>ETAC :<br>Non<br>déterminé<br>e ETAI :<br>9,70<br>mg/l(Déter<br>minée)                                                                       |
| p-cymene        | / | ATE | / | / | 9.7 mg/L | / |   | p-Cymene<br>Natural<br>(rep. 2)<br>ETAO : 4<br>750,00<br>mg/kg(Dét<br>erminée)<br>ETAC :<br>Non<br>déterminé<br>e ETAI :<br>9,70<br>mg/l(Déter<br>minée) |
| Terpinolen<br>e | / | /   | / | / | 3775     | / | / |                                                                                                                                                          |

### Additional information

The product is not classified as acutely toxic.

### (b) Skin corrosion/irritation

#### For components

| Name            | Species | Time | Result                 | Method | Remark |
|-----------------|---------|------|------------------------|--------|--------|
| benzyl benzoate | rabbit  | /    | /                      | /      | /      |
| farnesol        | rabbit  | /    | Mild irritating.       | /      | 0,5 MI |
| farnesol        | human   | 48 h | Moderately irritating. | /      | 5 %    |
| limonene        | /       | /    | Irritating.            | /      | /      |

### (c) Serious eye damage/irritation

No information.

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### Additional information

Causes serious eye irritation.

### (d) Respiratory or skin sensitisation

No information.

### Additional information

May cause an allergic skin reaction.

### (e) (Germ cell) mutagenicity

#### For components

| Name    | Type | Species | Time | Result     | Method | Remark |
|---------|------|---------|------|------------|--------|--------|
| Safrole | /    | /       | /    | Mutagenic. | /      | /      |

### (f) Carcinogenicity

#### For components

| Name    | Exposure route | Type | Species | Time | Value | Result       | Method | Remark |
|---------|----------------|------|---------|------|-------|--------------|--------|--------|
| Safrole | /              | /    | /       | /    |       | carcinogenic | /      | /      |

### (g) Reproductive toxicity

No information.

### Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

### (h) STOT-single exposure

No information.

### Additional information

STOT SE (single exposure): Not classified.

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### (i) STOT-repeated exposure

#### For components

| Name                               | Exposure route | Type  | Species       | Time    | Exposure    | Organ | Value        | Result | Method   | Remark |
|------------------------------------|----------------|-------|---------------|---------|-------------|-------|--------------|--------|----------|--------|
| 7-methyl-3-methylene-1,6-octadiene | oral           | LOAEL | rat           | 90 days | /           | /     | 250 mg/kg bw | /      | OECD 408 | /      |
| 7-methyl-3-methylene-1,6-octadiene | oral           | NOAEL | animal/female | 90 days | sub-chronic | /     | 500 mg/kg bw | /      | OECD 408 | /      |
| 7-methyl-3-methylene-1,6-octadiene | oral           | NOAEL | animal/male   | 90 days | sub-chronic | /     | 250 mg/kg bw | /      | OECD 408 | /      |

#### Additional information

STOT RE (repeated exposure): Not classified.

### (j) Aspiration hazard

No information.

#### Additional information

May be fatal if swallowed and enters airways.

#### Symptoms related to the physical, chemical and toxicological characteristics

No information.

#### Interactive effects

No information.

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### 11.2 Information on other hazards

#### Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

#### Other information

No information.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Acute (short-term) toxicity

No information.

#### Chronic (long-term) toxicity

No information.

#### Additional information

Do not leave the product, even diluted or in great quantity, penetrate the ground water, water or the drains.

### 12.2 Persistence and degradability

#### Abiotic degradation, physical- and photo-chemical elimination

No information.

#### Biodegradation

No information.

### 12.3 Bioaccumulative potential

#### Partition coefficient n-octanol/water (log value)

No information.

#### Bioconcentration factor (BCF)

No information.

### 12.4 Mobility in soil

#### Known or predicted distribution to environmental compartments

No information.

#### Surface tension

No information.

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### Adsorption/Desorption

No information.

### Additional information

PNEC soil :

### 12.5 Results of PBT and vPvB assessment

No evaluation.

### 12.6 Endocrine disrupting properties

#### For product

vPvB : PBT : The product does not contain substances identified as having endocrine disrupting properties (environment) in concentrations equal to or greater than 0.1% (m/m).

### 12.7 Other adverse effects

Not concerned

### 12.8 Additional information

#### For product

Toxic to aquatic organisms: may cause long-term adverse effects in the aquatic environment. Do not allow to reach ground water, water courses or sewage system.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product / Packaging disposal

##### Waste chemical

Do not allow product to reach drains/sewage systems. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

#### Waste codes / waste designations according to LoW

No information.

#### Packaging

Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents.

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### Waste codes / waste designations according to LoW

No information.

### Waste treatment-relevant information

No information.

### Sewage disposal-relevant information

No information.

### Other disposal recommendations

No information.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 UN number or ID number

| ADR/RID | IMDG    | IATA    | ADN     |
|---------|---------|---------|---------|
| UN 3082 | UN 3082 | UN 3082 | UN 3082 |

### 14.2 UN proper shipping name

| ADR/RID                                             | IMDG                                                | IATA                                                | ADN                                                 |
|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|-----------------------------------------------------|
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. |

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### 14.3 Transport hazard class(es)

| ADR/RID                                                                            | IMDG                                                                               | IATA                                                                               | ADN                                                                                  |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| 9                                                                                  | 9                                                                                  | 9                                                                                  | 9                                                                                    |
|   |   |   |   |
|  |  |  |  |

### 14.4 Packing group

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

### 14.5 Environmental hazards

| ADR/RID | IMDG             | IATA | ADN |
|---------|------------------|------|-----|
| YES     | Marine pollutant | YES  | YES |

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### 14.6 Special precautions for user

| ADR/RID                                                                                                                                                                                                                                                                                                                                    | IMDG                                                                                               | IATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ADN                                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|
| <p>Limited quantities: <b>5 L</b></p> <p>Special provisions:<br/><b>274, 335, 375, 601, 650</b></p> <p>Packing Instructions:<br/><b>P001, IBC03, LP01, R001</b></p> <p>Special packing provisions: <b>PP1</b></p> <p>Transport category: <b>3</b></p> <p>Tunnel restriction code:<br/><b>(-)</b></p> <p>Classification code: <b>M6</b></p> | <p>Limited quantities: <b>5 L</b></p> <p>EmS: <b>F-A, S-F</b></p> <p>Flash point: <b>94 °C</b></p> | <p>Limited Quantity,<br/>Packing Instructions<br/>(Ltd Qty, Pkg Inst):<br/><b>Y964</b></p> <p>Limited Quantity,<br/>Maximum Net<br/>Quantity/Package (Ltd<br/>Qty, Max Net Qty/Pkg):<br/><b>30, kg, G</b></p> <p>Packing Instructions<br/>(Pkg Inst): <b>964</b></p> <p>Maximum Net<br/>Quantity/Package (Max<br/>Net Qty/Pkg): <b>450, L</b></p> <p>Cargo Aircraft Only,<br/>Packing Instructions<br/>(CAO, Pkg Inst): <b>964</b></p> <p>Cargo Aircraft Only,<br/>Maximum Net<br/>Quantity/Package<br/>(CAO, Max Net<br/>Qty/Pkg): <b>450, L</b></p> <p>Special provisions:<br/><b>A97, A158, A197, A215</b></p> <p>Excepted quantities:<br/><b>E1</b></p> <p>ERG code: <b>9L</b></p> | <p>Limited quantities: <b>5 L</b></p> |

### 14.7 Maritime transport in bulk according to IMO instruments

| ADR/RID | IMDG                                                                         | IATA | ADN |
|---------|------------------------------------------------------------------------------|------|-----|
| /       | Goods may not be carried in bulk in bulk containers, containers or vehicles. | /    | /   |

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### SECTION 15: REGULATORY INFORMATION

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)
- Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
- EH40/2005 Workplace exposure limits (Fourth Edition 2020)

#### Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

not applicable

#### Ingredients according to Regulation (EC) No 648/2004 on detergents

No information.

#### Special instructions

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

#### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

### SECTION 16: OTHER INFORMATION

#### Indication of changes

No information.

#### Key literature references and sources for data

No information.

#### Abbreviations and acronyms

ATE - Acute Toxicity Estimate  
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
CEN - European Committee for Standardisation  
C&L - Classification and Labelling  
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
CAS# - Chemical Abstracts Service number  
CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
CSA - Chemical Safety Assessment  
CSR - Chemical Safety Report

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DMEL - Derived Minimal Effect Level  
DNEL - Derived No Effect Level  
DPD - Dangerous Preparations Directive 1999/45/EC  
DSD - Dangerous Substances Directive 67/548/EEC  
DU - Downstream User  
EC - European Community  
ECHA - European Chemicals Agency  
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue  
EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC50 - Lethal Concentration to 50 % of a test population  
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit  
OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No 1907/2006)

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RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

### List of relevant H phrases

H226 Flammable liquid and vapour.  
H228 Flammable solid.  
H302 Harmful if swallowed.  
H304 May be fatal if swallowed and enters airways.  
H312 Harmful in contact with skin.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H341 Suspected of causing genetic defects.  
H350 May cause cancer.  
H361 Suspected of damaging fertility or the unborn child.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.