

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

|                 |                        |
|-----------------|------------------------|
| Product form    | : Mixture              |
| Trade name      | : TOBACCO #EU44908F    |
| UFI             | : PJC0-R4DU-D00Q-XM56  |
| Product code    | : EU44908F             |
| Type of product | : Perfumes, fragrances |
| Product group   | : Trade product        |

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

#### Relevant identified uses

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| Main use category                | : Industrial use, Professional use        |
| Industrial/Professional use spec | : Industrial<br>For professional use only |
| Use of the substance/mixture     | : Perfumes, fragrances                    |
| Function or use category         | : Odour agents                            |

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

FRENCH COLOR & FRAGRANCE INTERNATIONAL GmbH  
Mittlerer Weg 35  
DE 79424 Auggen  
Germany  
T 49-7631-931-8900  
[SDS@frenchcolor.com](mailto:SDS@frenchcolor.com), [www.frenchcolor.com](http://www.frenchcolor.com)

### 1.4. Emergency telephone number

|                  |                                                                                                                                          |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Emergency number | : 1-800-255-3924; +01-813-248-0585; China: +400-120-0751; Mexico: +01-800-099-0731;<br>Brazil: +0-800-591-6042; India: +000-800-100-4086 |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

|                                                                   |      |
|-------------------------------------------------------------------|------|
| Acute toxicity (oral), Category 4                                 | H302 |
| Skin corrosion/irritation, Category 2                             | H315 |
| Serious eye damage/eye irritation, Category 2                     | H319 |
| Skin sensitisation, Category 1                                    | H317 |
| Hazardous to the aquatic environment – Acute Hazard, Category 1   | H400 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 2 | H411 |
| Full text of H- and EUH-statements: see section 16                |      |

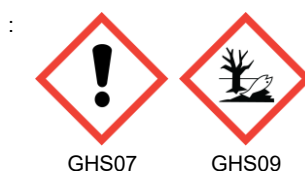
#### Adverse physicochemical, human health and environmental effects

Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. May cause an allergic skin reaction.

### 2.2. Label elements

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

Hazard pictograms (CLP)



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|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Signal word (CLP)              | : Warning                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Contains                       | : Benzyl benzoate; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone; Eugenol; Vertenex; Amyl cinnamic aldehyde; Cinnamic aldehyde; Orange Oil; COUMARIN; Oxyphylon (Raspberry ketone) crystals; CUPRESSUS FUNEBRIS WOOD OIL; Eucalyptus oil; Linalool; beta-Caryophyllene; Aldehyde C-16; Acetyl Propionyl                                                                                               |
| Hazard statements (CLP)        | : H302 - Harmful if swallowed.<br>H315 - Causes skin irritation.<br>H317 - May cause an allergic skin reaction.<br>H319 - Causes serious eye irritation.<br>H410 - Very toxic to aquatic life with long lasting effects.                                                                                                                                                                                                         |
| Precautionary statements (CLP) | : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.<br>P264 - Wash hands, forearms and face thoroughly after handling.<br>P270 - Do not eat, drink or smoke when using this product.<br>P272 - Contaminated work clothing should not be allowed out of the workplace.<br>P273 - Avoid release to the environment.<br>P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. |

### 2.3. Other hazards

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Name                                                                     | Product identifier                                                                                 | %                      | Classification according to Regulation (EC) No. 1272/2008 [CLP]               |
|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|------------------------|-------------------------------------------------------------------------------|
| benzyl benzoate                                                          | CAS-No.: 120-51-4<br>EC-No.: 204-402-9<br>EC Index-No.: 607-085-00-9<br>REACH-no: 01-2119976371-33 | 15.2 – 30.3            | Acute Tox. 4 (Oral), H302<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411 |
| Eugenol                                                                  | CAS-No.: 97-53-0<br>EC-No.: 202-589-1<br>REACH-no: 01-2119971802-33                                | 2.35 – 4.65            | Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317        |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone | CAS-No.: 54464-57-2<br>EC-No.: 259-174-3<br>REACH-no: 01-2119489989-04                             | 2.3 – 4.5              | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 1, H410          |
| Vertenex                                                                 | CAS-No.: 32210-23-4<br>EC-No.: 250-954-9<br>REACH-no: 01-2119976286-24                             | 2.3 – 4.5              | Skin Sens. 1B, H317                                                           |
| Ethyl vanillin                                                           | CAS-No.: 121-32-4<br>EC-No.: 204-464-7<br>REACH-no: 01-211958961-24                                | 1.9015333 – 3.96399465 | Eye Irrit. 2, H319                                                            |
| Amyl cinnamic aldehyde                                                   | CAS-No.: 122-40-7<br>EC-No.: 204-541-5                                                             | 1.8 – 3.5              | Skin Sens. 1B, H317<br>Aquatic Chronic 2, H411                                |

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| Name                                                                               | Product identifier                                                                                  | %                      | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                            |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------|
| Cinnamic aldehyde                                                                  | CAS-No.: 104-55-2<br>EC-No.: 203-213-9<br>EC Index-No.: 606-155-00-6<br>REACH-no: 01-2119935242-45  | 1.71 – 3.4375          | Acute Tox. 4 (Dermal), H312<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1A, H317<br>Aquatic Chronic 3, H412 |
| 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) | CAS-No.: 1222-05-5<br>EC-No.: 214-946-9<br>EC Index-No.: 603-212-00-7<br>REACH-no: 01-2119488227-29 | 1.5 – 3.075            | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                                                                           |
| tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)            | CAS-No.: 63500-71-0<br>EC-No.: 405-040-6<br>EC Index-No.: 603-101-00-3<br>REACH-no: 01-000015458-64 | 0.75 – 2.9             | Eye Irrit. 2, H319                                                                                                         |
| GAMMA-OCTALACTONE                                                                  | CAS-No.: 104-50-7<br>EC-No.: 203-208-1<br>REACH-no: 01-2120793635-41                                | 1 – 2                  | Skin Irrit. 2, H315                                                                                                        |
| Orange Oil                                                                         | CAS-No.: 8028-48-6<br>EC-No.: 232-433-8                                                             | 1 – 1.95               | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411            |
| COUMARIN                                                                           | CAS-No.: 91-64-5<br>EC-No.: 202-086-7<br>REACH-no: 01-2119943756-26                                 | 0.80002 – 1.60003      | Acute Tox. 4 (Oral), H302<br>Skin Sens. 1B, H317                                                                           |
| Oxypheylon (Raspberry ketone) crystals                                             | CAS-No.: 5471-51-2<br>EC-No.: 226-806-4                                                             | 0.8 – 1.55             | Acute Tox. 4 (Oral), H302                                                                                                  |
| Patchouli oil                                                                      | CAS-No.: 8014-09-3<br>EC-No.: 616-944-7<br>EC Index-No.: 616-944-7                                  | 0.8 – 1.5              | Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411                                                                               |
| Vanillin                                                                           | CAS-No.: 121-33-5<br>EC-No.: 204-465-2<br>REACH-no: 01-2119516040-60                                | 0.7600095 – 1.48502475 | Eye Irrit. 2, H319                                                                                                         |
| Dihydromyrcenol                                                                    | CAS-No.: 18479-58-8<br>EC-No.: 242-362-4<br>REACH-no: 01-2119457274-37                              | 0.6 – 1.25             | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319                                                                                  |
| 2(3H)-Furanone, 5-heptyldihydro-                                                   | CAS-No.: 104-67-6<br>EC-No.: 203-225-4<br>REACH-no: 01-2119959333-34                                | 0.6 – 1.1              | Aquatic Chronic 3, H412                                                                                                    |
| CUPRESSUS FUNEBRIS WOOD OIL                                                        | CAS-No.: 85085-29-6<br>EC-No.: 285-360-9                                                            | 0.5 – 0.9              | Skin Corr. 1, H314<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411                                   |

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| Name                                                                                                                                           | Product identifier                                                                                  | %            | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sandal Mysore Core                                                                                                                             | CAS-No.: 28219-60-5<br>EC-No.: 248-907-2                                                            | 0.5 – 0.9    | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                                                                                                                            |
| Camphor<br>substance with national workplace exposure limit(s)<br>(AT, BE, BG, DK, ES, FI, FR, GB, GR, HR, IE, LT, PL, PT, RO, SK, NO, CH, TR) | CAS-No.: 76-22-2<br>EC-No.: 200-945-0                                                               | 0.2 – 0.45   | Flam. Sol. 2, H228<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Inhalation), H332<br>Acute Tox. 4 (Inhalation:dust,mist), H332<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>STOT SE 2, H371<br>Aquatic Chronic 2, H411 |
| Eucalyptus oil                                                                                                                                 | CAS-No.: 8000-48-4<br>EC-No.: 283-406-2<br>REACH-no: 01-2119978250-37                               | 0.2 – 0.3    | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411                                                                                                          |
| Benzyl acetate<br>substance with national workplace exposure limit(s)<br>(BE, DK, ES, IE, LT, LV, PT, RO)                                      | CAS-No.: 140-11-4<br>EC-No.: 205-399-7<br>REACH-no: 01-2119638272-42                                | 0.2 – 0.3    | Aquatic Chronic 3, H412                                                                                                                                                                                                  |
| beta-Caryophyllene                                                                                                                             | CAS-No.: 87-44-5<br>EC-No.: 201-746-1<br>REACH-no: 01-2120745237-53                                 | 0.11 – 0.225 | Asp. Tox. 1, H304<br>Skin Sens. 1B, H317                                                                                                                                                                                 |
| Linalool                                                                                                                                       | CAS-No.: 78-70-6<br>EC-No.: 201-134-4<br>EC Index-No.: 603-235-00-2<br>REACH-no: 01-2119474016-42   | 0.1 – 0.203  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317                                                                                                                                                         |
| Aldehyde C-16                                                                                                                                  | CAS-No.: 77-83-8<br>EC-No.: 201-061-8<br>REACH-no: 01-2119967770-28                                 | 0.1 – 0.2    | Skin Sens. 1B, H317<br>Aquatic Chronic 2, H411                                                                                                                                                                           |
| Acetyl Propionyl<br>substance with national workplace exposure limit(s)<br>(DE, SI, CH)                                                        | CAS-No.: 600-14-6<br>EC-No.: 209-984-8                                                              | 0.1 – 0.1    | Flam. Liq. 2, H225<br>Eye Dam. 1, H318<br>Skin Sens. 1B, H317<br>STOT RE 2, H373                                                                                                                                         |
| (R)-p-mentha-1,8-diene; d-limonene<br>substance with national workplace exposure limit(s)<br>(DE, ES, FI, SI, NO, CH)                          | CAS-No.: 5989-27-5<br>EC-No.: 205-341-0<br>EC Index-No.: 601-096-00-2<br>REACH-no: 01-2119493353-35 | < 0.003      | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 3, H412                                                                                |
| .beta.-Pinene<br>substance with national workplace exposure limit(s)<br>(BE, EE, ES, LT, PT, SE, NO)                                           | CAS-No.: 127-91-3<br>EC-No.: 204-872-5                                                              | < 0.003      | Flam. Liq. 3, H226                                                                                                                                                                                                       |

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| Name                                                                                                                                                                                                                                                                                | Product identifier                                                   | %                   | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| .alpha.-Pinene<br>substance with national workplace exposure limit(s)<br>(BE, EE, ES, LT, PT, SE, NO)                                                                                                                                                                               | CAS-No.: 80-56-8<br>EC-No.: 201-291-9                                | < 0.003             | Flam. Liq. 3, H226<br>Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| Dipropylene glycol monomethyl ether<br>substance with national workplace exposure limit(s)<br>(AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH, TR); substance with a Community workplace exposure limit | CAS-No.: 34590-94-8<br>EC-No.: 252-104-2                             | 0.000254 – 0.000635 | Not classified                                                                                                                                                         |
| Toluene<br>substance with national workplace exposure limit(s)<br>(AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GI, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH, TR); substance with a Community workplace exposure limit                             | CAS-No.: 108-88-3<br>EC-No.: 203-625-9<br>EC Index-No.: 601-021-00-3 | ≤ 0.0000075         | Not classified                                                                                                                                                         |

### Specific concentration limits:

| Name              | Product identifier                                                                                 | Specific concentration limits (%)                                                                       |
|-------------------|----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| Cinnamic aldehyde | CAS-No.: 104-55-2<br>EC-No.: 203-213-9<br>EC Index-No.: 606-155-00-6<br>REACH-no: 01-2119935242-45 | (0.001 < C < 0.01) EUH208<br>(0.01 ≤ C < 0.1) Skin Sens. 1; H317<br>(0.1 ≤ C < 100) Skin Sens. 1A; H317 |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| First-aid measures general            | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a poison center or a doctor if you feel unwell.                                                                                                                                                                                                                                                                                                                                          |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Allow affected person to breathe fresh air. Allow the victim to rest.                                                                                                                                                                                                                                                                                                                                                                                          |
| First-aid measures after skin contact | : Wash with plenty of water/.... If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Wash contaminated clothing before reuse. Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. |
| First-aid measures after eye contact  | : If eye irritation persists: Get medical advice/attention. Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.                                                                                                                                                                              |
| First-aid measures after ingestion    | : Call a POISON CENTER/doctor if you feel unwell. Do NOT induce vomiting. Obtain emergency medical attention. Rinse mouth. Call a poison center or a doctor if you feel unwell.                                                                                                                                                                                                                                                                                                                                                 |

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

|                  |                                                                                            |
|------------------|--------------------------------------------------------------------------------------------|
| Symptoms/effects | : Not expected to present a significant hazard under anticipated conditions of normal use. |
|------------------|--------------------------------------------------------------------------------------------|

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Symptoms/effects after skin contact : Irritation. May cause an allergic skin reaction.  
Symptoms/effects after eye contact : Causes serious eye irritation. Eye irritation.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Sand. Water spray. Dry powder. Foam. Carbon dioxide.  
Unsuitable extinguishing media : Do not use a heavy water stream.

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

Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Emergency procedures : Ventilate spillage area. Evacuate unnecessary personnel. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.

#### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

For containment : Collect spillage.  
Methods for cleaning up : Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection. For further information refer to section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.

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Hygiene measures : Wash hands thoroughly after handling. Wash contaminated clothing before reuse.  
Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

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

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container closed when not in use. Store in a well-ventilated place. Keep cool.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Storage temperature : 25 °C

Storage area : Store in a well-ventilated place. Store away from heat.

Special rules on packaging : Store in a closed container.

Packaging materials : Do not store in corrodable metal.

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### National occupational exposure and biological limit values

| Camphor (76-22-2)                                  |                                                                     |
|----------------------------------------------------|---------------------------------------------------------------------|
| Ireland - Occupational Exposure Limits             |                                                                     |
| OEL TWA                                            | 12 mg/m <sup>3</sup>                                                |
|                                                    | 2 ppm                                                               |
| OEL STEL                                           | 18 mg/m <sup>3</sup>                                                |
|                                                    | 3 ppm                                                               |
| Benzyl acetate (140-11-4)                          |                                                                     |
| Ireland - Occupational Exposure Limits             |                                                                     |
| OEL TWA                                            | 10 ppm                                                              |
| OEL STEL                                           | 30 ppm (calculated)                                                 |
| Dipropylene glycol monomethyl ether (34590-94-8)   |                                                                     |
| EU - Indicative Occupational Exposure Limit (IOEL) |                                                                     |
| IOEL TWA                                           | 308 mg/m <sup>3</sup>                                               |
|                                                    | 50 ppm                                                              |
| Remark                                             | Possibility of significant uptake through the skin                  |
| Ireland - Occupational Exposure Limits             |                                                                     |
| OEL TWA                                            | 308 mg/m <sup>3</sup> ((2-Methoxymethylethoxy)propanol)             |
|                                                    | 50 ppm ((2-Methoxymethylethoxy)propanol)                            |
| OEL STEL                                           | 924 mg/m <sup>3</sup> (calculated (2-(2-Methoxypropoxy)-1-propanol) |
|                                                    | 150 ppm (calculated (2-(2-Methoxypropoxy)-1-propanol)               |
| OEL chemical category                              | Potential for cutaneous absorption                                  |

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### Toluene (108-88-3)

#### EU - Indicative Occupational Exposure Limit (IOEL)

|           |                                                    |
|-----------|----------------------------------------------------|
| IOEL TWA  | 192 mg/m <sup>3</sup>                              |
|           | 50 ppm                                             |
| IOEL STEL | 384 mg/m <sup>3</sup>                              |
|           | 100 ppm                                            |
| Remark    | Possibility of significant uptake through the skin |

#### Ireland - Occupational Exposure Limits

|                       |                                    |
|-----------------------|------------------------------------|
| OEL TWA               | 192 mg/m <sup>3</sup>              |
|                       | 50 ppm                             |
| OEL STEL              | 384 mg/m <sup>3</sup>              |
|                       | 100 ppm                            |
| OEL chemical category | Potential for cutaneous absorption |

## 8.2. Exposure controls

### Appropriate engineering controls

#### Appropriate engineering controls:

Ensure good ventilation of the work station.

### Personal protection equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

#### Personal protective equipment symbol(s):



### Eye and face protection

#### Eye protection:

Chemical goggles or safety glasses. Safety glasses

### Skin protection

#### Skin and body protection:

Wear suitable protective clothing

#### Hand protection:

Wear protective gloves.

### Respiratory protection

#### Respiratory protection:

Wear appropriate mask

### Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state : Liquid



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|                                                 |                                              |
|-------------------------------------------------|----------------------------------------------|
| Colour                                          | : light yellow. amber. Conforms to standard. |
| Odour                                           | : characteristic.                            |
| Odour threshold                                 | : Not available                              |
| Melting point                                   | : Not applicable                             |
| Freezing point                                  | : Not available                              |
| Boiling point                                   | : Not available                              |
| Flammability                                    | : Not applicable                             |
| Lower explosion limit                           | : Not available                              |
| Upper explosion limit                           | : Not available                              |
| Flash point                                     | : > 93.3 °C                                  |
| Auto-ignition temperature                       | : Not available                              |
| Decomposition temperature                       | : Not available                              |
| pH                                              | : Not available                              |
| Viscosity, kinematic                            | : Not available                              |
| Solubility                                      | : Not available                              |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                              |
| Vapour pressure                                 | : 0.001054303 mm Hg (calculated value)       |
| Vapour pressure at 50°C                         | : Not available                              |
| Density                                         | : Not available                              |
| Relative density                                | : 1.03                                       |
| Relative vapour density at 20°C                 | : Not available                              |
| Particle characteristics                        | : Not applicable                             |

### 9.2. Other information

#### Other safety characteristics

VOC content : 3.9274375 % (calculated value)(CARB VOC) (%w/w)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

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

|                             |                         |
|-----------------------------|-------------------------|
| Acute toxicity (oral)       | : Harmful if swallowed. |
| Acute toxicity (dermal)     | : Not classified        |
| Acute toxicity (inhalation) | : Not classified        |

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|                |                           |
|----------------|---------------------------|
| ATE CLP (oral) | 1484.742 mg/kg bodyweight |
|----------------|---------------------------|

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|                                                                                                       |                                  |
|-------------------------------------------------------------------------------------------------------|----------------------------------|
| <b>benzyl benzoate (120-51-4)</b>                                                                     |                                  |
| LD50 oral rat                                                                                         | > 2000 mg/kg (Source: ECHA_API)  |
| LD50 oral                                                                                             | 1160 mg/kg bodyweight            |
| LD50 dermal rabbit                                                                                    | 4000 mg/kg (Source: NLM_CIP)     |
| <b>Eugenol (97-53-0)</b>                                                                              |                                  |
| LD50 oral rat                                                                                         | 1930 mg/kg (Source: NZ_CCID)     |
| LD50 oral                                                                                             | 2500 mg/kg bodyweight            |
| LC50 Inhalation - Rat                                                                                 | > 2.58 mg/l/4h                   |
| <b>Vertenex (32210-23-4)</b>                                                                          |                                  |
| LD50 oral rat                                                                                         | 5 g/kg (Source: NLM_CIP)         |
| LD50 oral                                                                                             | 3370 mg/kg bodyweight            |
| LD50 dermal rabbit                                                                                    | > 5000 mg/kg (Source: CHEMVIEW)  |
| <b>Ethyl vanillin (121-32-4)</b>                                                                      |                                  |
| LD50 oral rat                                                                                         | 1590 mg/kg (Source: NLM_CIP)     |
| LD50 oral                                                                                             | 3000 mg/kg bodyweight            |
| LD50 dermal rat                                                                                       | > 2000 mg/kg (Source: ECHA_API)  |
| <b>Amyl cinnamic aldehyde (122-40-7)</b>                                                              |                                  |
| LD50 oral rat                                                                                         | 3730 mg/kg (Source: CHEMVIEW)    |
| LD50 dermal rabbit                                                                                    | > 2000 mg/kg (Source: CHEMVIEW)  |
| <b>Cinnamic aldehyde (104-55-2)</b>                                                                   |                                  |
| LD50 oral rat                                                                                         | 2220 mg/kg (Source: NLM_CIP)     |
| LD50 oral                                                                                             | 2220 mg/kg                       |
| LD50 dermal rabbit                                                                                    | 1260 mg/kg (Source: EPA_HPV)     |
| LD50 dermal                                                                                           | 1260 mg/kg                       |
| <b>1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)</b> |                                  |
| LD50 oral rat                                                                                         | > 3250 mg/kg (Source: CHEMVIEW)  |
| LD50 dermal rabbit                                                                                    | > 3250 mg/kg (Source: CHEMVIEW)  |
| LC50 Inhalation - Rat                                                                                 | > 5.04 mg/l/4h                   |
| <b>tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) (63500-71-0)</b>           |                                  |
| LD50 dermal rabbit                                                                                    | > 2000 mg/kg (Source: ECHA_API)  |
| <b>GAMMA-OCTALACTONE (104-50-7)</b>                                                                   |                                  |
| LD50 oral rat                                                                                         | 4400 mg/kg (Source: NLM_CIP)     |
| LD50 oral                                                                                             | 4400 mg/kg bodyweight            |
| LD50 dermal rabbit                                                                                    | > 5000 mg/kg (Source: ECHA_API)  |
| <b>Orange Oil (8028-48-6)</b>                                                                         |                                  |
| LD50 dermal rabbit                                                                                    | > 5000 mg/kg (Source: ECHA_API)  |
| <b>COUMARIN (91-64-5)</b>                                                                             |                                  |
| LD50 oral rat                                                                                         | > 5000 mg/kg (Source: JAPAN_GHS) |

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|                                                           |                                  |
|-----------------------------------------------------------|----------------------------------|
| <b>COUMARIN (91-64-5)</b>                                 |                                  |
| LD50 dermal rat                                           | 293 mg/kg (Source: ECHA_API)     |
| <b>Oxypheylon (Raspberry ketone) crystals (5471-51-2)</b> |                                  |
| LD50 oral rat                                             | 1320 mg/kg (Source: NLM_CIP)     |
| LD50 dermal rat                                           | > 2000 mg/kg (Source: ECHA_API)  |
| <b>Vanillin (121-33-5)</b>                                |                                  |
| LD50 dermal rabbit                                        | > 5010 mg/kg (Source: OECD_SIDS) |
| LD50 dermal                                               | 2600 mg/kg bodyweight            |
| <b>Patchouli oil (8014-09-3)</b>                          |                                  |
| LD50 oral rat                                             | > 5 g/kg (Source: NLM_CIP)       |
| <b>Dihydromyrcenol (18479-58-8)</b>                       |                                  |
| LD50 oral rat                                             | 3600 mg/kg (Source: NLM_CIP)     |
| LD50 oral                                                 | 3020 mg/kg                       |
| LD50 dermal rabbit                                        | > 5 g/kg (Source: CHEMVIEW)      |
| <b>2(3H)-Furanone, 5-heptyldihydro- (104-67-6)</b>        |                                  |
| LD50 oral rat                                             | 18500 mg/kg (Source: NLM_CIP)    |
| LD50 dermal rat                                           | > 2000 mg/kg (Source: ECHA)      |
| <b>Camphor (76-22-2)</b>                                  |                                  |
| LD50 oral                                                 | 1500 mg/kg                       |
| LD50 dermal rat                                           | > 2000 mg/kg (Source: ECHA_API)  |
| <b>Eucalyptus oil (8000-48-4)</b>                         |                                  |
| LD50 oral rat                                             | 2480 mg/kg (Source: NLM_CIP)     |
| <b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b>     |                                  |
| LD50 oral rat                                             | 4400 mg/kg (Source: CHEMVIEW)    |
| LD50 dermal rabbit                                        | > 5 g/kg (Source: CHEMVIEW)      |
| <b>Linalool (78-70-6)</b>                                 |                                  |
| LD50 oral rat                                             | 2790 mg/kg (Source: NLM_CIP)     |
| LD50 oral                                                 | 2790 mg/kg                       |
| LD50 dermal rabbit                                        | 5610 mg/kg (Source: ECHA_API)    |
| <b>.beta.-Pinene (127-91-3)</b>                           |                                  |
| LD50 oral rat                                             | > 5000 mg/kg (Source: EPA_HPVS)  |
| LD50 dermal rabbit                                        | > 5000 mg/kg (Source: CHEMVIEW)  |
| <b>.alpha.-Pinene (80-56-8)</b>                           |                                  |
| LD50 oral rat                                             | 3700 mg/kg (Source: NLM_CIP)     |
| LD50 dermal rat                                           | > 5000 mg/kg (Source: CHEMVIEW)  |
| <b>Benzyl acetate (140-11-4)</b>                          |                                  |
| LD50 oral rat                                             | 2490 mg/kg (Source: JAPAN_GHS)   |
| LD50 oral                                                 | 2490 mg/kg bodyweight            |

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|                                                         |                                                                    |
|---------------------------------------------------------|--------------------------------------------------------------------|
| <b>Benzyl acetate (140-11-4)</b>                        |                                                                    |
| LD50 dermal rabbit                                      | > 5000 mg/kg (Source: JAPAN_GHS)                                   |
| <b>Dipropylene glycol monomethyl ether (34590-94-8)</b> |                                                                    |
| LD50 oral rat                                           | 5.35 g/kg (Source: NLM_HSDB)                                       |
| LD50 dermal rabbit                                      | 9500 mg/kg (Source: NLM_CIP)                                       |
| <b>Toluene (108-88-3)</b>                               |                                                                    |
| LD50 oral rat                                           | 2600 mg/kg (Source: JAPAN_GHS)                                     |
| LD50 dermal rabbit                                      | 12000 mg/kg (Source: JAPAN_GHS)                                    |
| LC50 Inhalation - Rat                                   | 12.5 mg/l/4h                                                       |
| <b>Aldehyde C-16 (77-83-8)</b>                          |                                                                    |
| LD50 oral rat                                           | 5470 mg/kg (Source: NLM_CIP)                                       |
| LD50 dermal rat                                         | > 2000 mg/kg (Source: ECHA_API)                                    |
| <b>Acetyl Propionyl (600-14-6)</b>                      |                                                                    |
| LD50 oral rat                                           | 3 g/kg (Source: NLM_CIP)                                           |
| LD50 oral                                               | 3000 mg/kg                                                         |
| LD50 dermal rabbit                                      | > 2000 mg/kg (Source: NIOSH)                                       |
| Skin corrosion/irritation                               | : Causes skin irritation.                                          |
| Serious eye damage/irritation                           | : Causes serious eye irritation.                                   |
| Respiratory or skin sensitisation                       | : May cause an allergic skin reaction.                             |
| Germ cell mutagenicity                                  | : Not classified                                                   |
| Carcinogenicity                                         | : Not classified                                                   |
| <b>Eugenol (97-53-0)</b>                                |                                                                    |
| IARC group                                              | 3 - Not classifiable                                               |
| <b>COUMARIN (91-64-5)</b>                               |                                                                    |
| IARC group                                              | 3 - Not classifiable                                               |
| <b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b>   |                                                                    |
| IARC group                                              | 3 - Not classifiable                                               |
| <b>Benzyl acetate (140-11-4)</b>                        |                                                                    |
| IARC group                                              | 3 - Not classifiable                                               |
| <b>Toluene (108-88-3)</b>                               |                                                                    |
| IARC group                                              | 3 - Not classifiable                                               |
| Reproductive toxicity                                   | : Not classified                                                   |
| STOT-single exposure                                    | : Not classified                                                   |
| <b>Camphor (76-22-2)</b>                                |                                                                    |
| STOT-single exposure                                    | May cause damage to organs.                                        |
| STOT-repeated exposure                                  | : Not classified                                                   |
| <b>Acetyl Propionyl (600-14-6)</b>                      |                                                                    |
| STOT-repeated exposure                                  | May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard                                       | : Not classified                                                   |

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|                                                       |             |
|-------------------------------------------------------|-------------|
| <b>benzyl benzoate (120-51-4)</b>                     |             |
| Viscosity, kinematic                                  | 7.456 mm²/s |
| <b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b> |             |
| Hydrocarbon                                           | Yes         |
| <b>.beta.-Pinene (127-91-3)</b>                       |             |
| Hydrocarbon                                           | Yes         |
| <b>.alpha.-Pinene (80-56-8)</b>                       |             |
| Hydrocarbon                                           | Yes         |
| <b>beta-Caryophyllene (87-44-5)</b>                   |             |
| Hydrocarbon                                           | Yes         |
| <b>Toluene (108-88-3)</b>                             |             |
| Hydrocarbon                                           | Yes         |

### 11.2. Information on other hazards

#### Other information

Potential adverse human health effects and symptoms : Based on available data, the classification criteria are not met, Harmful if swallowed.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.  
Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

|                                                                                                       |                                                                                                  |
|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>benzyl benzoate (120-51-4)</b>                                                                     |                                                                                                  |
| LC50 - Fish [1]                                                                                       | 2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)                |
| NOEC (chronic)                                                                                        | 0.168 mg/l                                                                                       |
| <b>Eugenol (97-53-0)</b>                                                                              |                                                                                                  |
| LC50 - Fish [1]                                                                                       | 13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)                  |
| <b>Vertenex (32210-23-4)</b>                                                                          |                                                                                                  |
| LC50 - Fish [1]                                                                                       | 8.6 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static] Source: ECHA)             |
| <b>Ethyl vanillin (121-32-4)</b>                                                                      |                                                                                                  |
| LC50 - Fish [1]                                                                                       | 81.4 – 94.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |
| <b>1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCb) (1222-05-5)</b> |                                                                                                  |
| LC50 - Fish [1]                                                                                       | 0.452 mg/l Wolf, 1996d-27682                                                                     |
| LC50 - Other aquatic organisms [1]                                                                    | > 0.14 mg/l REACH DOSSIER Pimephales promelas                                                    |
| EC50 - Crustacea [2]                                                                                  | 260 µg/l REACH Dossier                                                                           |
| EC50 - Other aquatic organisms [1]                                                                    | 0.131 mg/l REACH Dossier                                                                         |

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|                                                         |                                                                                                    |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <b>Vanillin (121-33-5)</b>                              |                                                                                                    |
| LC50 - Fish [1]                                         | 53 – 61.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)     |
| LC50 - Fish [2]                                         | 88 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)                  |
| NOEC (acute)                                            | 10000 mg/kg (Exposure time: 42 Days - Species: Eisenia foetida [soil dry weight])                  |
| <b>2(3H)-Furanone, 5-heptyldihydro- (104-67-6)</b>      |                                                                                                    |
| LC50 - Fish [1]                                         | 569 mg/l 96 h                                                                                      |
| EC50 - Crustacea [1]                                    | 5.85 mg/l 48 h                                                                                     |
| EC50 - Other aquatic organisms [1]                      | 5.94 mg/l 72 h                                                                                     |
| <b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b>   |                                                                                                    |
| LC50 - Fish [1]                                         | 0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |
| LC50 - Fish [2]                                         | 35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)                           |
| <b>Linalool (78-70-6)</b>                               |                                                                                                    |
| LC50 - Fish [1]                                         | 27.8 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static] Source: ECHA)               |
| EC50 - Crustacea [1]                                    | 20 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                             |
| EC50 96h - Algae [1]                                    | 88.3 mg/l (Species: Desmodesmus subspicatus)                                                       |
| <b>.alpha.-Pinene (80-56-8)</b>                         |                                                                                                    |
| LC50 - Fish [1]                                         | 0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID)             |
| EC50 - Crustacea [1]                                    | 41 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                             |
| <b>Dipropylene glycol monomethyl ether (34590-94-8)</b> |                                                                                                    |
| LC50 - Fish [1]                                         | > 10000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])                         |
| EC50 - Crustacea [1]                                    | 1919 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                           |
| <b>Toluene (108-88-3)</b>                               |                                                                                                    |
| LC50 - Fish [1]                                         | 15.22 – 19.05 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |
| LC50 - Fish [2]                                         | 12.6 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)                |
| EC50 - Crustacea [1]                                    | 5.46 – 9.83 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])                           |
| EC50 - Crustacea [2]                                    | 11.5 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                           |
| EC50 72h - Algae [1]                                    | 12.5 mg/l (Species: Pseudokirchneriella subcapitata [static])                                      |
| EC50 96h - Algae [1]                                    | > 433 mg/l (Species: Pseudokirchneriella subcapitata)                                              |
| <b>Aldehyde C-16 (77-83-8)</b>                          |                                                                                                    |
| LC50 - Fish [1]                                         | 4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static] Source: ECHA)           |

## 12.2. Persistence and degradability

|                                   |                                                         |
|-----------------------------------|---------------------------------------------------------|
| <b>TOBACCO #EU44908F</b>          |                                                         |
| Persistence and degradability     | Not established.                                        |
| <b>benzyl benzoate (120-51-4)</b> |                                                         |
| Persistence and degradability     | May cause long-term adverse effects in the environment. |

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|-------------------------------------------------------------------------------------------------------|--------------------|
| <b>1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (54464-57-2)</b>          |                    |
| Persistence and degradability                                                                         | Rapidly degradable |
| <b>Eugenol (97-53-0)</b>                                                                              |                    |
| Persistence and degradability                                                                         | Rapidly degradable |
| <b>Vertenex (32210-23-4)</b>                                                                          |                    |
| Persistence and degradability                                                                         | Rapidly degradable |
| <b>Ethyl vanillin (121-32-4)</b>                                                                      |                    |
| Persistence and degradability                                                                         | Not established.   |
| <b>Amyl cinnamic aldehyde (122-40-7)</b>                                                              |                    |
| Persistence and degradability                                                                         | Rapidly degradable |
| <b>Cinnamic aldehyde (104-55-2)</b>                                                                   |                    |
| Persistence and degradability                                                                         | Rapidly degradable |
| <b>1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5)</b> |                    |
| Persistence and degradability                                                                         | Rapidly degradable |
| <b>tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) (63500-71-0)</b>           |                    |
| Persistence and degradability                                                                         | Rapidly degradable |
| <b>GAMMA-OCTALACTONE (104-50-7)</b>                                                                   |                    |
| Persistence and degradability                                                                         | Rapidly degradable |
| <b>Orange Oil (8028-48-6)</b>                                                                         |                    |
| Persistence and degradability                                                                         | Rapidly degradable |
| <b>COUMARIN (91-64-5)</b>                                                                             |                    |
| Persistence and degradability                                                                         | Rapidly degradable |
| <b>Oxyphelylon (Raspberry ketone) crystals (5471-51-2)</b>                                            |                    |
| Persistence and degradability                                                                         | Rapidly degradable |
| <b>Vanillin (121-33-5)</b>                                                                            |                    |
| Persistence and degradability                                                                         | Not established.   |
| <b>Patchouli oil (8014-09-3)</b>                                                                      |                    |
| Persistence and degradability                                                                         | Rapidly degradable |
| <b>Dihydromyrcenol (18479-58-8)</b>                                                                   |                    |
| Persistence and degradability                                                                         | Rapidly degradable |
| <b>2(3H)-Furanone, 5-heptyldihydro- (104-67-6)</b>                                                    |                    |
| Persistence and degradability                                                                         | Rapidly degradable |
| <b>CUPRESSUS FUNEBRIS WOOD OIL (85085-29-6)</b>                                                       |                    |
| Persistence and degradability                                                                         | Rapidly degradable |
| <b>Sandal Mysore Core (28219-60-5)</b>                                                                |                    |
| Persistence and degradability                                                                         | Rapidly degradable |

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|                                                                                              |                            |
|----------------------------------------------------------------------------------------------|----------------------------|
| <b>Camphor (76-22-2)</b>                                                                     |                            |
| Persistence and degradability                                                                | Rapidly degradable         |
| <b>Eucalyptus oil (8000-48-4)</b>                                                            |                            |
| Persistence and degradability                                                                | Not established.           |
| <b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b>                                        |                            |
| Persistence and degradability                                                                | Rapidly degradable         |
| <b>Linalool (78-70-6)</b>                                                                    |                            |
| Persistence and degradability                                                                | Rapidly degradable         |
| <b>.beta.-Pinene (127-91-3)</b>                                                              |                            |
| Persistence and degradability                                                                | Rapidly degradable         |
| <b>.alpha.-Pinene (80-56-8)</b>                                                              |                            |
| Persistence and degradability                                                                | Rapidly degradable         |
| <b>beta-Caryophyllene (87-44-5)</b>                                                          |                            |
| Persistence and degradability                                                                | Rapidly degradable         |
| <b>Benzyl acetate (140-11-4)</b>                                                             |                            |
| Persistence and degradability                                                                | Rapidly degradable         |
| <b>Dipropylene glycol monomethyl ether (34590-94-8)</b>                                      |                            |
| Persistence and degradability                                                                | Rapidly degradable         |
| <b>Toluene (108-88-3)</b>                                                                    |                            |
| Persistence and degradability                                                                | Rapidly degradable         |
| <b>Aldehyde C-16 (77-83-8)</b>                                                               |                            |
| Persistence and degradability                                                                | Rapidly degradable         |
| <b>Acetyl Propionyl (600-14-6)</b>                                                           |                            |
| Persistence and degradability                                                                | Rapidly degradable         |
| <b>12.3. Bioaccumulative potential</b>                                                       |                            |
| <b>TOBACCO #EU44908F</b>                                                                     |                            |
| Bioaccumulative potential                                                                    | Not established.           |
| <b>benzyl benzoate (120-51-4)</b>                                                            |                            |
| Partition coefficient n-octanol/water (Log Pow)                                              | 3.97 (at 25 °C)            |
| Bioaccumulative potential                                                                    | Not established.           |
| <b>1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (54464-57-2)</b> |                            |
| Partition coefficient n-octanol/water (Log Pow)                                              | 5.65 (at 30°C)             |
| <b>Eugenol (97-53-0)</b>                                                                     |                            |
| Partition coefficient n-octanol/water (Log Pow)                                              | 1.83 (at 30 °C (at pH 5.5) |
| <b>Vertenex (32210-23-4)</b>                                                                 |                            |
| Partition coefficient n-octanol/water (Log Pow)                                              | 4.8 (at 25 °C)             |



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|-------------------------------------------------------------------------------------------------------|---------------------------------------|
| <b>Ethyl vanillin (121-32-4)</b>                                                                      |                                       |
| Partition coefficient n-octanol/water (Log Pow)                                                       | 1.61 (at 25 °C)                       |
| Bioaccumulative potential                                                                             | Not established.                      |
| <b>Amyl cinnamic aldehyde (122-40-7)</b>                                                              |                                       |
| Partition coefficient n-octanol/water (Log Pow)                                                       | 2.498 (at 25 °C (at pH 6.2)           |
| <b>Cinnamic aldehyde (104-55-2)</b>                                                                   |                                       |
| Partition coefficient n-octanol/water (Log Pow)                                                       | 2.1065 (at 25 °C)                     |
| <b>1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HCHB) (1222-05-5)</b> |                                       |
| BCF - Fish [1]                                                                                        | (1618 dimensionless (whole body w.w.) |
| Partition coefficient n-octanol/water (Log Pow)                                                       | 5.3 (at 25 °C (at pH 7)               |
| <b>tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) (63500-71-0)</b>           |                                       |
| Partition coefficient n-octanol/water (Log Pow)                                                       | 1.65 (at 23 °C (at pH >6.09-<6.74)    |
| <b>GAMMA-OCTALACTONE (104-50-7)</b>                                                                   |                                       |
| Partition coefficient n-octanol/water (Log Pow)                                                       | 1.89 (at 25 °C (at pH 6.4)            |
| <b>COUMARIN (91-64-5)</b>                                                                             |                                       |
| Partition coefficient n-octanol/water (Log Pow)                                                       | ≥ 1.91 – ≤ 1.51 (at 25 °C (at pH 7)   |
| <b>Oxypheylon (Raspberry ketone) crystals (5471-51-2)</b>                                             |                                       |
| Partition coefficient n-octanol/water (Log Pow)                                                       | 1.33 (at 20 °C)                       |
| <b>Vanillin (121-33-5)</b>                                                                            |                                       |
| Partition coefficient n-octanol/water (Log Pow)                                                       | 1.23 (at 22 °C)                       |
| Bioaccumulative potential                                                                             | Not established.                      |
| <b>Patchouli oil (8014-09-3)</b>                                                                      |                                       |
| Partition coefficient n-octanol/water (Log Pow)                                                       | Not established                       |
| <b>Dihydromyrcenol (18479-58-8)</b>                                                                   |                                       |
| Partition coefficient n-octanol/water (Log Pow)                                                       | 3.25 (at 40 °C (at pH 7)              |
| <b>2(3H)-Furanone, 5-heptyldihydro- (104-67-6)</b>                                                    |                                       |
| Partition coefficient n-octanol/water (Log Pow)                                                       | 3.6 (at 25 °C)                        |
| <b>Sandal Mysore Core (28219-60-5)</b>                                                                |                                       |
| Partition coefficient n-octanol/water (Log Pow)                                                       | 3.8                                   |
| <b>Camphor (76-22-2)</b>                                                                              |                                       |
| Partition coefficient n-octanol/water (Log Pow)                                                       | 2.414 (at 25 °C)                      |
| <b>Eucalyptus oil (8000-48-4)</b>                                                                     |                                       |
| Bioaccumulative potential                                                                             | Not established.                      |
| <b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b>                                                 |                                       |
| Partition coefficient n-octanol/water (Log Pow)                                                       | 4.38 (at 37 °C (at pH 7.2)            |
| <b>Linalool (78-70-6)</b>                                                                             |                                       |
| Partition coefficient n-octanol/water (Log Pow)                                                       | 2.9 (at 20 °C (at pH 7)               |

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|                                                         |                            |
|---------------------------------------------------------|----------------------------|
| <b>.beta.-Pinene (127-91-3)</b>                         |                            |
| Partition coefficient n-octanol/water (Log Pow)         | 4.4 (at 25 °C)             |
| <b>.alpha.-Pinene (80-56-8)</b>                         |                            |
| Partition coefficient n-octanol/water (Log Pow)         | 4.1                        |
| <b>beta-Caryophyllene (87-44-5)</b>                     |                            |
| Partition coefficient n-octanol/water (Log Pow)         | 6.23 (at 25 °C (at pH 7)   |
| <b>Benzyl acetate (140-11-4)</b>                        |                            |
| Partition coefficient n-octanol/water (Log Pow)         | 1.96 (at 25 °C (at pH 7)   |
| <b>Dipropylene glycol monomethyl ether (34590-94-8)</b> |                            |
| Partition coefficient n-octanol/water (Log Pow)         | 0.35 (at 25 °C (at pH 7)   |
| <b>Toluene (108-88-3)</b>                               |                            |
| Partition coefficient n-octanol/water (Log Pow)         | 2.73 (at 20 °C (at pH 7)   |
| <b>Aldehyde C-16 (77-83-8)</b>                          |                            |
| Partition coefficient n-octanol/water (Log Pow)         | 2.4 (at 25 °C (cis isomer) |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

|                                   |                                   |
|-----------------------------------|-----------------------------------|
| <b>TOBACCO #EU44908F</b>          |                                   |
| Other information                 | Avoid release to the environment. |
| <b>benzyl benzoate (120-51-4)</b> |                                   |
| Other information                 | Avoid release to the environment. |
| <b>Ethyl vanillin (121-32-4)</b>  |                                   |
| Other information                 | Avoid release to the environment. |
| <b>Vanillin (121-33-5)</b>        |                                   |
| Other information                 | Avoid release to the environment. |
| <b>Eucalyptus oil (8000-48-4)</b> |                                   |
| Other information                 | Avoid release to the environment. |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                            |                                                                                                                                                                 |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.                                                                   |
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with local/national laws and regulations. |
| Ecological waste information               | : Avoid release to the environment.                                                                                                                             |

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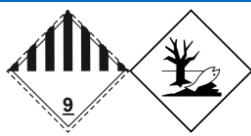
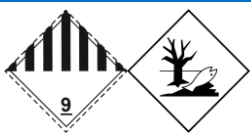
according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878

HP Code

: HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.  
HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.  
HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

### SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                                                                                                                                 | IMDG                                                                                                                                                             | IATA                                                                                                                                           | ADN                                                                                                                                            | RID                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>14.1. UN number or ID number</b>                                                                                                                 |                                                                                                                                                                  |                                                                                                                                                |                                                                                                                                                |                                                                                                                                                |
| UN 3082                                                                                                                                             | UN 3082                                                                                                                                                          | UN 3082                                                                                                                                        | UN 3082                                                                                                                                        | UN 3082                                                                                                                                        |
| <b>14.2. UN proper shipping name</b>                                                                                                                |                                                                                                                                                                  |                                                                                                                                                |                                                                                                                                                |                                                                                                                                                |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone)                      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone)                                   | Environmentally hazardous substance, liquid, n.o.s. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone)                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone)                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone)                 |
| <b>Transport document description</b>                                                                                                               |                                                                                                                                                                  |                                                                                                                                                |                                                                                                                                                |                                                                                                                                                |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone), 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone), 9, III |
| <b>14.3. Transport hazard class(es)</b>                                                                                                             |                                                                                                                                                                  |                                                                                                                                                |                                                                                                                                                |                                                                                                                                                |
| 9                                                                                                                                                   | 9                                                                                                                                                                | 9                                                                                                                                              | 9                                                                                                                                              | 9                                                                                                                                              |
|                                                                  |                                                                               |                                                             |                                                            |                                                           |
| <b>14.4. Packing group</b>                                                                                                                          |                                                                                                                                                                  |                                                                                                                                                |                                                                                                                                                |                                                                                                                                                |
| III                                                                                                                                                 | III                                                                                                                                                              | III                                                                                                                                            | III                                                                                                                                            | III                                                                                                                                            |
| <b>14.5. Environmental hazards</b>                                                                                                                  |                                                                                                                                                                  |                                                                                                                                                |                                                                                                                                                |                                                                                                                                                |
| Dangerous for the environment: Yes                                                                                                                  | Dangerous for the environment: Yes<br>Marine pollutant: Yes<br>EmS-No. (Fire): F-A<br>EmS-No. (Spillage): S-F                                                    | Dangerous for the environment: Yes                                                                                                             | Dangerous for the environment: Yes                                                                                                             | Dangerous for the environment: Yes                                                                                                             |
| No supplementary information available                                                                                                              |                                                                                                                                                                  |                                                                                                                                                |                                                                                                                                                |                                                                                                                                                |

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : M6  
Special provisions (ADR) : 274, 335, 375, 601, 650  
Limited quantities (ADR) : 5I

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|                                                                         |                           |
|-------------------------------------------------------------------------|---------------------------|
| Excepted quantities (ADR)                                               | : E1                      |
| Packing instructions (ADR)                                              | : P001, IBC03, LP01, R001 |
| Special packing provisions (ADR)                                        | : PP1                     |
| Mixed packing provisions (ADR)                                          | : MP19                    |
| Portable tank and bulk container instructions (ADR)                     | : T4                      |
| Portable tank and bulk container special provisions (ADR)               | : TP1, TP29               |
| Tank code (ADR)                                                         | : LGBV                    |
| Vehicle for tank carriage                                               | : AT                      |
| Transport category (ADR)                                                | : 3                       |
| Special provisions for carriage - Packages (ADR)                        | : V12                     |
| Special provisions for carriage - Loading, unloading and handling (ADR) | : CV13                    |
| Hazard identification number (Kemler No.)                               | : 90                      |
| Orange plates                                                           | :                         |



|                               |     |
|-------------------------------|-----|
| Tunnel restriction code (ADR) | : - |
|-------------------------------|-----|

### Transport by sea

|                                   |                      |
|-----------------------------------|----------------------|
| Special provisions (IMDG)         | : 274, 335, 375, 969 |
| Limited quantities (IMDG)         | : 5 L                |
| Excepted quantities (IMDG)        | : E1                 |
| Packing instructions (IMDG)       | : LP01, P001         |
| Special packing provisions (IMDG) | : PP1                |
| IBC packing instructions (IMDG)   | : IBC03              |
| Tank instructions (IMDG)          | : T4                 |
| Tank special provisions (IMDG)    | : TP1, TP29          |
| Stowage category (IMDG)           | : A                  |

### Air transport

|                                              |                         |
|----------------------------------------------|-------------------------|
| PCA Excepted quantities (IATA)               | : E1                    |
| PCA Limited quantities (IATA)                | : Y964                  |
| PCA limited quantity max net quantity (IATA) | : 30kgG                 |
| PCA packing instructions (IATA)              | : 964                   |
| PCA max net quantity (IATA)                  | : 450L                  |
| CAO packing instructions (IATA)              | : 964                   |
| CAO max net quantity (IATA)                  | : 450L                  |
| Special provisions (IATA)                    | : A97, A158, A197, A215 |
| ERG code (IATA)                              | : 9L                    |

### Inland waterway transport

|                                   |                           |
|-----------------------------------|---------------------------|
| Classification code (ADN)         | : M6                      |
| Special provisions (ADN)          | : 274, 335, 375, 601, 650 |
| Limited quantities (ADN)          | : 5 L                     |
| Excepted quantities (ADN)         | : E1                      |
| Carriage permitted (ADN)          | : T                       |
| Equipment required (ADN)          | : PP                      |
| Number of blue cones/lights (ADN) | : 0                       |

### Rail transport

|                                                           |                           |
|-----------------------------------------------------------|---------------------------|
| Classification code (RID)                                 | : M6                      |
| Special provisions (RID)                                  | : 274, 335, 375, 601, 650 |
| Limited quantities (RID)                                  | : 5L                      |
| Excepted quantities (RID)                                 | : E1                      |
| Packing instructions (RID)                                | : P001, IBC03, LP01, R001 |
| Special packing provisions (RID)                          | : PP1                     |
| Mixed packing provisions (RID)                            | : MP19                    |
| Portable tank and bulk container instructions (RID)       | : T4                      |
| Portable tank and bulk container special provisions (RID) | : TP1, TP29               |

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Tank codes for RID tanks (RID) : LGBV  
Transport category (RID) : 3  
Special provisions for carriage – Packages (RID) : W12  
Special provisions for carriage - Loading, unloading and handling (RID) : CW13, CW31  
Colis express (express parcels) (RID) : CE8  
Hazard identification number (RID) : 90

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

Not applicable

## SECTION 15: Regulatory information

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

#### EU-Regulations

##### REACH Annex XVII (Restriction List)

| EU restriction list (REACH Annex XVII) |                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                   |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference code                         | Applicable on                                                                                                                                                                                                                                                                                                                                                                                                                     | Entry title or description                                                                                                                                                                                                                                                                                        |
| 3(a)                                   | Orange Oil ; Eucalyptus oil ; d-Limonene ; .beta.-Pinene ; .alpha.-Pinene ; Acetyl Propionyl                                                                                                                                                                                                                                                                                                                                      | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F          |
| 3(b)                                   | TOBACCO #EU44908F ; Benzyl benzoate ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone ; Eugenol ; Vertenex ; Amyl cinnamic aldehyde ; Cinnamic aldehyde ; Florol ; GAMMA-OCTALACTONE ; Orange Oil ; Patchouli oil ; Dihydromyrcenol ; CUPRESSUS FUNEBRIS WOOD OIL ; Sandal Mysore Core ; Eucalyptus oil ; d-Limonene ; Linalool ; .alpha.-Pinene ; beta-Caryophyllene ; Aldehyde C-16 ; Acetyl Propionyl | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out 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 |

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| EU restriction list (REACH Annex XVII) |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                           |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference code                         | Applicable on                                                                                                                                                                                                                                                                                                                                                       | Entry title or description                                                                                                                                                |
| 3(c)                                   | TOBACCO #EU44908F ; Benzyl benzoate ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone ; Amyl cinnamic aldehyde ; Cinnamic aldehyde ; Hexamethylindanopyran ; Orange Oil ; Patchouli oil ; Aldehyde C-14 ; CUPRESSUS FUNEBRIS WOOD OIL ; Sandal Mysore Core ; Eucalyptus oil ; d-Limonene ; .alpha.-Pinene ; Benzyl acetate ; Aldehyde C-16 | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1 |
| 48.                                    | Toluene                                                                                                                                                                                                                                                                                                                                                             | Toluene                                                                                                                                                                   |

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

VOC Directive (2004/42)

VOC content : 3.9274375 % (calculated value)(CARB VOC) (%w/w)

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

| Name    | CN designation | CAS-No.  | CN code    | Category, Subcategory | Threshold | Annex   |
|---------|----------------|----------|------------|-----------------------|-----------|---------|
| Toluene |                | 108-88-3 | 2902 30 00 | Category 3            |           | Annex I |

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

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### SECTION 16: Other information

#### Abbreviations and acronyms:

|         |                                                                                                   |
|---------|---------------------------------------------------------------------------------------------------|
| ADN     | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways   |
| ADR     | European Agreement concerning the International Carriage of Dangerous Goods by Road               |
| ATE     | Acute Toxicity Estimate                                                                           |
| BLV     | Biological limit value                                                                            |
| CAS-No. | Chemical Abstract Service number                                                                  |
| CLP     | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                       |
| DMEL    | Derived Minimal Effect level                                                                      |
| DNEL    | Derived-No Effect Level                                                                           |
| EC50    | Median effective concentration                                                                    |
| EC-No.  | European Community number                                                                         |
| EN      | European Standard                                                                                 |
| IATA    | International Air Transport Association                                                           |
| IMDG    | International Maritime Dangerous Goods                                                            |
| LC50    | Median lethal concentration                                                                       |
| LD50    | Median lethal dose                                                                                |
| LOAEL   | Lowest Observed Adverse Effect Level                                                              |
| NOAEC   | No-Observed Adverse Effect Concentration                                                          |
| NOAEL   | No-Observed Adverse Effect Level                                                                  |
| NOEC    | No-Observed Effect Concentration                                                                  |
| OEL     | Occupational Exposure Limit                                                                       |
| PBT     | Persistent Bioaccumulative Toxic                                                                  |
| PNEC    | Predicted No-Effect Concentration                                                                 |
| REACH   | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| RID     | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |
| SDS     | Safety Data Sheet                                                                                 |
| vPvB    | Very Persistent and Very Bioaccumulative                                                          |
| WGK     | Water Hazard Class                                                                                |

Other information : None.

#### Full text of H- and EUH-statements:

|                                        |                                                                   |
|----------------------------------------|-------------------------------------------------------------------|
| Acute Tox. 4 (Dermal)                  | Acute toxicity (dermal), Category 4                               |
| Acute Tox. 4 (Inhalation)              | Acute toxicity (inhal.), Category 4                               |
| Acute Tox. 4<br>(Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4                  |
| Acute Tox. 4 (Oral)                    | Acute toxicity (oral), Category 4                                 |
| Aquatic Acute 1                        | Hazardous to the aquatic environment – Acute Hazard, Category 1   |
| Aquatic Chronic 1                      | Hazardous to the aquatic environment – Chronic Hazard, Category 1 |
| Aquatic Chronic 2                      | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |

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| Full text of H- and EUH-statements: |                                                                                                                          |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Aquatic Chronic 3                   | Hazardous to the aquatic environment – Chronic Hazard, Category 3                                                        |
| Asp. Tox. 1                         | Aspiration hazard, Category 1                                                                                            |
| EUH208                              | Contains {0 message≤name of sensitising substance> fieldvalue=_SENSITIZER_COMPONENTS}. May produce an allergic reaction. |
| Eye Dam. 1                          | Serious eye damage/eye irritation, Category 1                                                                            |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                                                                            |
| Flam. Liq. 2                        | Flammable liquids, Category 2                                                                                            |
| Flam. Liq. 3                        | Flammable liquids, Category 3                                                                                            |
| Flam. Sol. 2                        | Flammable solids, Category 2                                                                                             |
| Skin Corr. 1                        | Skin corrosion/irritation, Category 1                                                                                    |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                                                                                    |
| Skin Sens. 1                        | Skin sensitisation, Category 1                                                                                           |
| Skin Sens. 1A                       | Skin sensitisation, category 1A                                                                                          |
| Skin Sens. 1B                       | Skin sensitisation, category 1B                                                                                          |
| STOT RE 2                           | Specific target organ toxicity – Repeated exposure, Category 2                                                           |
| STOT SE 2                           | Specific target organ toxicity – Single exposure, Category 2                                                             |
| H225                                | Highly flammable liquid and vapour.                                                                                      |
| 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.                                                                                            |
| H314                                | Causes severe skin burns and eye damage.                                                                                 |
| H315                                | Causes skin irritation.                                                                                                  |
| H317                                | May cause an allergic skin reaction.                                                                                     |
| H318                                | Causes serious eye damage.                                                                                               |
| H319                                | Causes serious eye irritation.                                                                                           |
| H332                                | Harmful if inhaled.                                                                                                      |
| H371                                | May cause damage to organs.                                                                                              |
| H373                                | May cause damage to organs through prolonged or repeated exposure.                                                       |
| 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.                                                                       |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.