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

1.1. Product identifier

|  |  |  |
| --- | --- | --- |
| Product form | : | Mixture |
| Product name | : | FRANKINCENSE & MYRRH #EU25961F 10% in DPG |
| Product code | : | EU25961F\_10% |
| Type of product | : | Perfumes, fragrances |

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

Relevant identified uses

|  |  |  |
| --- | --- | --- |
| Industrial/Professional use spec | : | IndustrialFor 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

No additional information available

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

|  |  |  |
| --- | --- | --- |
| Skin sensitisation, Category 1 | H317  |  |
| Hazardous to the aquatic environment – Chronic Hazard, Category 3 | H412  |  |

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

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Hazard pictograms (CLP) | : | GHS07 |  |  |  |  |  |
|  |  | GHS07 |  |  |  |  |  |
| Signal word (CLP) | : | Warning |
| Contains | : | Cinnamic aldehyde; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone; Clove Leaf Oil ; Grapefruit oil; Eugenol; Linalyl acetate; Linalool; beta-Caryophyllene |
| Hazard statements (CLP) | : | H317 - May cause an allergic skin reaction.H412 - Harmful to aquatic life with long lasting effects. |
| Precautionary statements (CLP) | : | P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.P272 - Contaminated work clothing should not be allowed out of the workplace.P273 - Avoid release to the environment.P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.P302+P352 - IF ON SKIN: Wash with plenty of water.P321 - Specific treatment (see supplemental first aid instruction on this label). |
|  |

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] |
| --- | --- | --- | --- |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone | CAS-No.: 54464-57-2EC-No.: 259-174-3REACH-no: 01-2119489989-04 | 0.57 – 1.135 | Skin Irrit. 2, H315Skin Sens. 1, H317Aquatic Chronic 1, H410 |
| Clove Leaf Oil  | CAS-No.: 8000-34-8EC-No.: 616-772-2 | 0.19 – 0.38 | Eye Irrit. 2, H319Skin Sens. 1, H317Asp. Tox. 1, H304 |
| Eugenol | CAS-No.: 97-53-0EC-No.: 202-589-1REACH-no: 01-2119971802-33 | 0.18 – 0.355 | Acute Tox. 4 (Oral), H302Eye Irrit. 2, H319Skin Sens. 1B, H317 |
| 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) | CAS-No.: 1222-05-5EC-No.: 214-946-9EC Index-No.: 603-212-00-7REACH-no: 01-2119488227-29 | 0.18 – 0.355 | Aquatic Acute 1, H400Aquatic Chronic 1, H410 |
| Linalyl acetate | CAS-No.: 115-95-7EC-No.: 204-116-4REACH-no: 01-2119454789-19 | 0.15 – 0.29 | Skin Irrit. 2, H315Eye Irrit. 2, H319Skin Sens. 1, H317 |
| Linalool | CAS-No.: 78-70-6EC-No.: 201-134-4EC Index-No.: 603-235-00-2REACH-no: 01-2119474016-42 | 0.13 – 0.25015 | Skin Irrit. 2, H315Eye Irrit. 2, H319Skin Sens. 1B, H317 |
| Grapefruit oil | CAS-No.: 8016-20-4EC-No.: 600-007-4  | 0.1 – 0.205 | Flam. Liq. 3, H226Skin Irrit. 2, H315Skin Sens. 1, H317Asp. Tox. 1, H304Aquatic Chronic 2, H411 |
| Cinnamic aldehyde | CAS-No.: 104-55-2EC-No.: 203-213-9EC Index-No.: 606-155-00-6REACH-no: 01-2119935242-45 | 0.09 – 0.175 | Acute Tox. 4 (Dermal), H312Skin Irrit. 2, H315Eye Irrit. 2, H319Skin Sens. 1A, H317Aquatic Chronic 3, H412 |
| beta-Caryophyllene | CAS-No.: 87-44-5EC-No.: 201-746-1REACH-no: 01-2120745237-53 | 0.09 – 0.175 | Asp. Tox. 1, H304Skin Sens. 1B, H317 |
| Cedarwood oil, Texas | CAS-No.: 68990-83-0EC-No.: 294-461-7 | 0.06 – 0.115 | Asp. Tox. 1, H304Aquatic Acute 1, H400Aquatic Chronic 1, H410 |
| citralsubstance with national workplace exposure limit(s) (BE, ES, IE, PL, PT) | CAS-No.: 5392-40-5EC-No.: 226-394-6EC Index-No.: 605-019-00-3REACH-no: 01-2119462829-23 | 0.01 – 0.02 | Skin Irrit. 2, H315Eye Irrit. 2, H319Skin Sens. 1, H317 |
| .beta.-Pinenesubstance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO) | CAS-No.: 127-91-3EC-No.: 204-872-5 | 0.001 – 0.00375 | Flam. Liq. 3, H226 |
| .alpha.-Pinenesubstance with national workplace exposure limit(s) (BE, EE, ES, LT, PT, SE, NO) | CAS-No.: 80-56-8EC-No.: 201-291-9 | 0.001 – 0.00375 | Flam. Liq. 3, H226Acute Tox. 4 (Oral), H302Skin Irrit. 2, H315Skin Sens. 1B, H317Asp. Tox. 1, H304Aquatic Acute 1, H400Aquatic Chronic 1, H410 |
| (R)-p-mentha-1,8-diene; d-limonenesubstance with national workplace exposure limit(s) (DE, ES, FI, SI, NO, CH) | CAS-No.: 5989-27-5EC-No.: 205-341-0EC Index-No.: 601-096-00-2REACH-no: 01-2119493353-35 | 0.0005 – 0.0015 | Flam. Liq. 3, H226Skin Irrit. 2, H315Skin Sens. 1B, H317Asp. Tox. 1, H304Aquatic Acute 1, H400Aquatic Chronic 3, H412 |
| p-Cymenesubstance with national workplace exposure limit(s) (DK, EE, LT, LV, SE) | CAS-No.: 99-87-6EC-No.: 202-796-7EC Index-No.: 601-094-00-1 | 0.0001 – 0.00075 | Flam. Liq. 3, H226Acute Tox. 3 (Inhalation), H331Acute Tox. 3 (Inhalation:dust,mist), H331Repr. 2, H361Asp. Tox. 1, H304Aquatic Chronic 2, H411 |

| Specific concentration limits: |
| --- |
| Name | Product identifier | Specific concentration limits (%) |
| Cinnamic aldehyde | CAS-No.: 104-55-2EC-No.: 203-213-9EC Index-No.: 606-155-00-6REACH-no: 01-2119935242-45 | (0.001 < C < 0.01) EUH208(0.01 ≤ C < 0.1) Skin Sens. 1; H317(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). |
| First-aid measures after inhalation | : | Allow affected person to breathe fresh air. Allow the victim to rest. |
| First-aid measures after skin contact | : | Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. |
| First-aid measures after eye contact | : | Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists. |
| First-aid measures after ingestion | : | Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. |

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. |

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

5.2. Special hazards arising from the substance or mixture

No additional information available

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. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

|  |  |  |
| --- | --- | --- |
| Emergency procedures | : | Evacuate unnecessary personnel. |

For emergency responders

|  |  |  |
| --- | --- | --- |
| Protective equipment | : | Equip cleanup crew with proper protection. |
| Emergency procedures | : | Ventilate area. |

6.2. Environmental precautions

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

|  |  |  |
| --- | --- | --- |
| Methods for cleaning up | : | Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. |

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

|  |  |  |
| --- | --- | --- |
| Precautions for safe handling | : | 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. |

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 container closed when not in use. |
| Incompatible products | : | Strong bases. Strong acids. |
| Incompatible materials | : | Sources of ignition. Direct sunlight. |
| Germany |
| Storage class (LGK, TRGS 510) | : | LGK 12 - Non-combustible liquids |
| Joint storage table | : | Joint storage table |
| Joint storage not permitted for | : | LGK 1, LGK 6.2, LGK 7 |
| Joint storage with restrictions permitted for | : | LGK 4.1A, LGK 4.3, LGK 5.1C |
| Joint storage permitted for | : | LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13 |
| Switzerland |
| Storage class (LK) | : | LK 10/12 - Liquids |

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

| citral (5392-40-5) |
| --- |
| Belgium - Occupational Exposure Limits |
| OEL TWA | 32 mg/m³ (vapor and aerosol) |
| 5 ppm (vapor and aerosol) |
| OEL chemical category | Skin |
| Ireland - Occupational Exposure Limits |
| OEL TWA | 5 ppm |
| OEL STEL | 15 ppm (calculated) |
| Poland - Occupational Exposure Limits |
| NDS (OEL TWA) | 27 mg/m³ |
| NDSCh (OEL STEL) | 54 mg/m³ |
| Portugal - Occupational Exposure Limits |
| OEL TWA | 5 ppm (inhalable fraction; vapor) |
| OEL chemical category | Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure |
| Spain - Occupational Exposure Limits |
| VLA-ED (OEL TWA) | 5 ppm (inhalable fraction and vapor) |
| OEL chemical category | Sensitizer, skin - potential for cutaneous absorption |
| USA - ACGIH - Occupational Exposure Limits |
| ACGIH OEL TWA | 5 ppm (inhalable fraction and vapor) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer |

| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) |
| --- |
| Finland - Occupational Exposure Limits |
| HTP (OEL TWA) | 140 mg/m³ |
| 25 ppm |
| HTP (OEL STEL) | 280 mg/m³ |
| 50 ppm |
| Germany - Occupational Exposure Limits (TRGS 900) |
| AGW (OEL TWA) | 28 mg/m³ (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| 5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Chemical category | Skin notation, Skin sensitization |
| Slovenia - Occupational Exposure Limits |
| OEL TWA | 28 mg/m³ |
| 5 ppm |
| OEL STEL | 112 mg/m³ |
| 20 ppm |
| OEL chemical category | Potential for cutaneous absorption |
| Spain - Occupational Exposure Limits |
| VLA-ED (OEL TWA) | 168 mg/m³ |
| 30 ppm |
| OEL chemical category | Sensitizer, skin - potential for cutaneous absorption |
| Norway - Occupational Exposure Limits |
| Grenseverdi (OEL TWA) | 140 mg/m³ |
| 25 ppm |
| Korttidsverdi (OEL STEL) | 175 mg/m³ (value calculated) |
| 37.5 ppm (value calculated) |
| OEL chemical category | Allergenic substance |
| Switzerland - Occupational Exposure Limits |
| MAK (OEL TWA) | 40 mg/m³ |
| 7 ppm |
| KZGW (OEL STEL) | 80 mg/m³ |
| 14 ppm |
| OEL chemical category | Sensitizer |

| p-Cymene (99-87-6) |
| --- |
| Denmark - Occupational Exposure Limits |
| OEL TWA | 135 mg/m³ (Methylisopropylbenzenes) |
| 25 ppm (Methylisopropylbenzenes) |
| OEL STEL | 270 mg/m³ (Methylisopropylbenzenes) |
| 50 ppm (Methylisopropylbenzenes) |
| Estonia - Occupational Exposure Limits |
| OEL TWA | 140 mg/m³ |
| 25 ppm |
| OEL STEL | 190 mg/m³ |
| 35 ppm |
| Latvia - Occupational Exposure Limits |
| OEL TWA | 10 mg/m³ (Cymene (2, 3, 4-isomers mixture)) |
| Lithuania - Occupational Exposure Limits |
| IPRV (OEL TWA) | 140 mg/m³ |
| 25 ppm |
| TPRV (OEL STEL) | 190 mg/m³ |
| 35 ppm |
| Sweden - Occupational Exposure Limits |
| NGV (OEL TWA) | 140 mg/m³ |
| 25 ppm |
| KGV (OEL STEL) | 190 mg/m³ |
| 35 ppm |

| .beta.-Pinene (127-91-3) |
| --- |
| Belgium - Occupational Exposure Limits |
| OEL TWA | 20 ppm |
| Estonia - Occupational Exposure Limits |
| OEL TWA | 150 mg/m³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| 25 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| OEL STEL | 300 mg/m³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| 50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| Lithuania - Occupational Exposure Limits |
| IPRV (OEL TWA) | 150 mg/m³ |
| 25 ppm |
| TPRV (OEL STEL) | 300 mg/m³ |
| 50 ppm |
| Portugal - Occupational Exposure Limits |
| OEL TWA | 20 ppm (Turpentine and selected Monoterpenes) |
| OEL chemical category | Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen |
| Spain - Occupational Exposure Limits |
| VLA-ED (OEL TWA) | 113 mg/m³ |
| 20 ppm |
| OEL chemical category | Sensitizer |
| Sweden - Occupational Exposure Limits |
| NGV (OEL TWA) | 150 mg/m³ |
| 25 ppm |
| KGV (OEL STEL) | 300 mg/m³ |
| 50 ppm |
| OEL chemical category | Sensitizer |
| Norway - Occupational Exposure Limits |
| Grenseverdi (OEL TWA) | 140 mg/m³ |
| 25 ppm |
| Korttidsverdi (OEL STEL) | 175 mg/m³ (value calculated) |
| 37.5 ppm (value calculated) |
| USA - ACGIH - Occupational Exposure Limits |
| ACGIH OEL TWA | 20 ppm (Turpentine and selected Monoterpenes) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen, dermal sensitizer |

| .alpha.-Pinene (80-56-8) |
| --- |
| Belgium - Occupational Exposure Limits |
| OEL TWA | 20 ppm |
| Estonia - Occupational Exposure Limits |
| OEL TWA | 150 mg/m³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| 25 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| OEL STEL | 300 mg/m³ (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| 50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| Lithuania - Occupational Exposure Limits |
| IPRV (OEL TWA) | 150 mg/m³ |
| 25 ppm |
| TPRV (OEL STEL) | 300 mg/m³ |
| 50 ppm |
| Portugal - Occupational Exposure Limits |
| OEL TWA | 20 ppm (Turpentine and selected Monoterpenes) |
| OEL chemical category | Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen |
| Spain - Occupational Exposure Limits |
| VLA-ED (OEL TWA) | 113 mg/m³ |
| 20 ppm |
| OEL chemical category | Sensitizer |
| Sweden - Occupational Exposure Limits |
| NGV (OEL TWA) | 150 mg/m³ |
| 25 ppm |
| KGV (OEL STEL) | 300 mg/m³ |
| 50 ppm |
| OEL chemical category | Sensitizer |
| Norway - Occupational Exposure Limits |
| Grenseverdi (OEL TWA) | 140 mg/m³ |
| 25 ppm |
| Korttidsverdi (OEL STEL) | 175 mg/m³ (value calculated) |
| 37.5 ppm (value calculated) |
| OEL chemical category | Skin notation |
| USA - ACGIH - Occupational Exposure Limits |
| ACGIH OEL TWA | 20 ppm (Turpentine and selected Monoterpenes) |
| ACGIH chemical category | Not Classifiable as a Human Carcinogen, dermal sensitizer |

8.2. Exposure controls

Personal protection equipment

|  |
| --- |
| Personal protective equipment: |
| Avoid all unnecessary exposure. |
| Personal protective equipment symbol(s): |
| Chemical goggles or safety glasses |

Eye and face protection

|  |
| --- |
| Eye protection: |
| Chemical goggles or safety glasses |

Skin protection

|  |
| --- |
| Hand protection: |
| Wear protective gloves. |

Respiratory protection

|  |
| --- |
| Respiratory protection: |
| Wear appropriate mask |

Environmental exposure controls

|  |
| --- |
| 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 |
| Colour | : | Conforms to standard. |
| Odour | : | characteristic. |
| Odour threshold | : | Not available |
| Melting point | : | Not available |
| Freezing point | : | Not available |
| Boiling point | : | Not available |
| Flammability | : | Non flammable. |
| Lower explosion limit | : | Not available |
| Upper explosion limit | : | Not available |
| Flash point | : | > 93 °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 | : | Not available |
| Vapour pressure at 50°C | : | Not available |
| Density | : | Not available |
| Relative density | : | Not available |
| Relative vapour density at 20°C | : | Not available |
| Particle characteristics | : | Not applicable |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

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) | : | Not classified |
| Acute toxicity (dermal) | : | Not classified |
| Acute toxicity (inhalation) | : | Not classified |

| Cinnamic aldehyde (104-55-2) |
| --- |
| 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 |

| citral (5392-40-5) |
| --- |
| LD50 oral rat | 4960 mg/kg (Source: NLM\_CIP) |
| LD50 dermal rabbit | 2250 mg/kg (Source: NLM\_CIP) |

| Clove Leaf Oil (8000-34-8) |
| --- |
| LD50 oral rat | 1370 mg/kg (Source: NZ\_CCID) |
| LD50 oral | 2650 mg/kg bodyweight |
| LD50 dermal rabbit | 1200 mg/kg (Source: NLM\_CIP) |
| LD50 dermal | 2500 mg/kg bodyweight |

| Grapefruit oil (8016-20-4) |
| --- |
| LD50 oral rat | > 5 g/kg (Source: ECHA) |

| Eugenol (97-53-0) |
| --- |
| LD50 oral rat | 1930 mg/kg (Source: NZ\_CCID) |
| LD50 oral | 2500 mg/kg bodyweight |
| LC50 Inhalation - Rat | > 2.58 mg/l/4h |

| Linalyl acetate (115-95-7) |
| --- |
| LD50 oral rat | 14550 mg/kg (Source: EPA\_HPV) |
| LD50 dermal rabbit | > 5000 mg/kg (Source: ECHA) |
| LC50 Inhalation - Rat | > 18.94 mg/l (Exposure time: 8 h Source: ECHA) |

| Linalool (78-70-6) |
| --- |
| LD50 oral rat | 2790 mg/kg (Source: NLM\_CIP) |
| LD50 oral | 2790 mg/kg |
| LD50 dermal rabbit | 5610 mg/kg (Source: ECHA\_API) |

| 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5) |
| --- |
| LD50 oral rat | > 3250 mg/kg (Source: CHEMVIEW) |
| LD50 dermal rabbit | > 3250 mg/kg (Source: CHEMVIEW) |
| LC50 Inhalation - Rat | > 5.04 mg/l/4h |

| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) |
| --- |
| LD50 oral rat | 4400 mg/kg (Source: CHEMVIEW) |
| LD50 dermal rabbit | > 5 g/kg (Source: CHEMVIEW) |

| p-Cymene (99-87-6) |
| --- |
| LD50 oral rat | 4750 mg/kg (Source: NLM\_CIP) |
| LD50 oral | 4750 mg/kg bodyweight |
| LD50 dermal rabbit | > 5000 mg/kg (Source: CHEMVIEW) |
| LC50 Inhalation - Rat | > 9.7 mg/l (Exposure time: 5 h Source: EU\_CLH) |
| LC50 Inhalation - Rat (Vapours) | 9.7 mg/l/4h |

| .beta.-Pinene (127-91-3) |
| --- |
| LD50 oral rat | > 5000 mg/kg (Source: EPA\_HPV) |
| LD50 dermal rabbit | > 5000 mg/kg (Source: CHEMVIEW) |

| .alpha.-Pinene (80-56-8) |
| --- |
| LD50 oral rat | 3700 mg/kg (Source: NLM\_CIP) |
| LD50 dermal rat | > 5000 mg/kg (Source: CHEMVIEW) |

|  |  |  |
| --- | --- | --- |
| Skin corrosion/irritation | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |

|  |  |  |
| --- | --- | --- |
| Serious eye damage/irritation | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |

|  |  |  |
| --- | --- | --- |
| Respiratory or skin sensitisation | : | May cause an allergic skin reaction. |
| Additional information | : | Based on available data, the classification criteria are not met |

|  |  |  |
| --- | --- | --- |
| Germ cell mutagenicity | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |

|  |  |  |
| --- | --- | --- |
| Carcinogenicity | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met  |

| Eugenol (97-53-0) |
| --- |
| IARC group | 3 - Not classifiable |

| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) |
| --- |
| IARC group | 3 - Not classifiable |

|  |  |  |
| --- | --- | --- |
| Reproductive toxicity | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |

|  |  |  |
| --- | --- | --- |
| STOT-single exposure | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |

|  |  |  |
| --- | --- | --- |
| STOT-repeated exposure | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |

|  |  |  |
| --- | --- | --- |
| Aspiration hazard | : | Not classified |
| Additional information | : | Based on available data, the classification criteria are not met |

| beta-Caryophyllene (87-44-5) |
| --- |
| Hydrocarbon | Yes |

| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) |
| --- |
| Hydrocarbon | Yes |

| p-Cymene (99-87-6) |
| --- |
| Hydrocarbon | Yes |

| .beta.-Pinene (127-91-3) |
| --- |
| Hydrocarbon | Yes |

| .alpha.-Pinene (80-56-8) |
| --- |
| 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 |

SECTION 12: Ecological information

12.1. Toxicity

|  |  |  |
| --- | --- | --- |
| Hazardous to the aquatic environment, short–term (acute) | : | Not classified |
| Hazardous to the aquatic environment, long–term (chronic) | : | Harmful to aquatic life with long lasting effects. |

| citral (5392-40-5) |
| --- |
| EC50 - Crustacea [1] | 7 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| EC50 72h - Algae [1] | 16 mg/l (Species: Desmodesmus subspicatus) |
| EC50 96h - Algae [1] | 19 mg/l (Species: Desmodesmus subspicatus) |

| Eugenol (97-53-0) |
| --- |
| LC50 - Fish [1] | 13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA) |

| Linalyl acetate (115-95-7) |
| --- |
| LC50 - Fish [1] | 11 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through] Source: ECHA) |

| Linalool (78-70-6) |
| --- |
| 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) |

| 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5) |
| --- |
| 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 |

| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) |
| --- |
| 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) |

| .alpha.-Pinene (80-56-8) |
| --- |
| 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) |

12.2. Persistence and degradability

| FRANKINCENSE & MYRRH #EU25961F 10% in DPG  |
| --- |
| Persistence and degradability | Not established. |

| Cinnamic aldehyde (104-55-2) |
| --- |
| Persistence and degradability | Rapidly degradable |

| citral (5392-40-5) |
| --- |
| Persistence and degradability | Rapidly degradable |

| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (54464-57-2) |
| --- |
| Persistence and degradability | Rapidly degradable |

| Cedarwood oil, Texas (68990-83-0) |
| --- |
| Persistence and degradability | Not established. |

| Clove Leaf Oil (8000-34-8) |
| --- |
| Persistence and degradability | Rapidly degradable |

| Grapefruit oil (8016-20-4) |
| --- |
| Persistence and degradability | Rapidly degradable |

| Eugenol (97-53-0) |
| --- |
| Persistence and degradability | Rapidly degradable |

| Linalyl acetate (115-95-7) |
| --- |
| Persistence and degradability | Rapidly degradable |

| Linalool (78-70-6) |
| --- |
| Persistence and degradability | Rapidly degradable |

| 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5) |
| --- |
| Persistence and degradability | Rapidly degradable |

| beta-Caryophyllene (87-44-5) |
| --- |
| Persistence and degradability | Rapidly degradable |

| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) |
| --- |
| Persistence and degradability | Rapidly degradable |

| p-Cymene (99-87-6) |
| --- |
| Persistence and degradability | Rapidly degradable |

| .beta.-Pinene (127-91-3) |
| --- |
| Persistence and degradability | Rapidly degradable |

| .alpha.-Pinene (80-56-8) |
| --- |
| Persistence and degradability | Rapidly degradable |

12.3. Bioaccumulative potential

| FRANKINCENSE & MYRRH #EU25961F 10% in DPG  |
| --- |
| Bioaccumulative potential | Not established. |

| Cinnamic aldehyde (104-55-2) |
| --- |
| Partition coefficient n-octanol/water (Log Pow) | 2.1065 (at 25 °C) |

| citral (5392-40-5) |
| --- |
| Partition coefficient n-octanol/water (Log Pow) | 2.76 (at 25 °C) |

| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (54464-57-2) |
| --- |
| Partition coefficient n-octanol/water (Log Pow) | 5.65 (at 30°C) |

| Cedarwood oil, Texas (68990-83-0) |
| --- |
| Bioaccumulative potential | Not established. |

| Eugenol (97-53-0) |
| --- |
| Partition coefficient n-octanol/water (Log Pow) | 1.83 (at 30 °C (at pH 5.5) |

| Linalyl acetate (115-95-7) |
| --- |
| Partition coefficient n-octanol/water (Log Pow) | 3.9 (at 25 °C) |

| Linalool (78-70-6) |
| --- |
| Partition coefficient n-octanol/water (Log Pow) | 2.9 (at 20 °C (at pH 7) |

| 1,3,4,6,7,8-hexahydro-4,6,6,7,8,8-hexamethylindeno[5,6-c]pyran; galaxolide; (HHCB) (1222-05-5) |
| --- |
| BCF - Fish [1] | (1618 dimensionless (whole body w.w.) |
| Partition coefficient n-octanol/water (Log Pow) | 5.3 (at 25 °C (at pH 7) |

| beta-Caryophyllene (87-44-5) |
| --- |
| Partition coefficient n-octanol/water (Log Pow) | 6.23 (at 25 °C (at pH 7) |

| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5) |
| --- |
| Partition coefficient n-octanol/water (Log Pow) | 4.38 (at 37 °C (at pH 7.2) |

| p-Cymene (99-87-6) |
| --- |
| Partition coefficient n-octanol/water (Log Pow) | 4.8 (at 20 °C (at pH 7) |
| Partition coefficient n-octanol/water (Log Kow) | 0 |

| .beta.-Pinene (127-91-3) |
| --- |
| Partition coefficient n-octanol/water (Log Pow) | 4.4 (at 25 °C) |

| .alpha.-Pinene (80-56-8) |
| --- |
| Partition coefficient n-octanol/water (Log Pow) | 4.1 |

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

| FRANKINCENSE & MYRRH #EU25961F 10% in DPG  |
| --- |
| Other information | Avoid release to the environment. |

| Cedarwood oil, Texas (68990-83-0) |
| --- |
| Other information | Avoid release to the environment. |

SECTION 13: Disposal considerations

13.1. Waste treatment methods

|  |  |  |
| --- | --- | --- |
| Product/Packaging disposal recommendations | : | Dispose in a safe manner in accordance with local/national regulations. |
| Ecological waste information | : | Avoid release to the environment. |
| HP Code | : | 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 |
| --- | --- | --- | --- | --- |
| 14.1. UN number or ID number |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available |

14.6. Special precautions for user

|  |
| --- |
| Overland transport |
| Not applicable |

|  |
| --- |
| Transport by sea |
| Not applicable |

|  |
| --- |
| Air transport |
| Not applicable |

|  |
| --- |
| Inland waterway transport |
| Not applicable |

|  |
| --- |
| Rail transport |
| Not applicable |

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) | Grapefruit oil ; d-Limonene ; p-Cymene ; .beta.-Pinene ; .alpha.-Pinene | 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) | FRANKINCENSE & MYRRH #EU25961F 10% in DPG ; Cinnamic aldehyde ; Citral ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone ; Cedarwood oil, Texas ; Clove Leaf Oil ; Grapefruit oil ; Eugenol ; Linalyl acetate ; Linalool ; beta-Caryophyllene ; d-Limonene ; p-Cymene ; .alpha.-Pinene | 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 |
| 3(c) | FRANKINCENSE & MYRRH #EU25961F 10% in DPG ; Cinnamic aldehyde ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone ; Cedarwood oil, Texas ; Grapefruit oil ; Hexamethylindanopyran ; d-Limonene ; p-Cymene ; .alpha.-Pinene | 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 |

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

Explosives Precursors Regulation (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 (273/2004)

Contains no 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)

National regulations

|  |
| --- |
| Austria |
| Toxic Substances Ordinance 2000 | : | Is not subject to the Toxic Substances Ordinance 2000. |
| Germany |
| VOC ordinance (ChemVOCFarbV) | : |  |
|  |
| Water hazard class (WGK) | : | WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1). |
| List of sensitizing substances (TRGS 907) | : | Contains sensitizing substances according TRGS 907. |
| Major Accidents Ordinance (12. BImSchV) | : | Is not subject to the Major Accidents Ordinance (12. BImSchV) |
| Netherlands |
| ABM category | : | A(3) - hazardous for aquatic organisms, may have longterm hazardous effects in aquatic environment |
| SZW-lijst van kankerverwekkende stoffen | : | Cedarwood oil, Texas is listed |
| SZW-lijst van mutagene stoffen | : | None of the components are listed |
| SZW-lijst van reprotoxische stoffen – Borstvoeding | : | None of the components are listed |
| SZW-lijst van reprotoxische stoffen – Vruchtbaarheid | : | None of the components are listed |
| SZW-lijst van reprotoxische stoffen – Ontwikkeling | : | None of the components are listed |
| Denmark |
| Classification remarks | : | Emergency management guidelines for the storage of flammable liquids must be followed |
| Danish National Regulations | : | Young people below the age of 18 years are not allowed to use the productPregnant/breastfeeding women working with the product must not be in direct contact with the product |
| Poland |
| Polish National Regulations | : | Act of 25 February 2011 on chemical substances and their mixtures (J. o L. No. 63, item 322 as amended; consolidated text J. o L. 2019, item 1225).Act of 14 December 2012 on waste (J. o L. 2013, item 322 as amended; consolidated text J. o L. 2020, item 797).The announcement of Marshal of the Sejm of the Republic of Poland dated 19 October 2016 concerning the consolidated text announcement of the decree on the management of packaging and packaging waste (J. o L. 2016, item 1863 as amended).Decree of the Minister of Environment of 14 December 2014 on the catalogue of waste (J. o L. 2014, item 1923).Act of 19 August 2011 on the Carriage of Dangerous Goods (J. o L. 2011 No. 227, item 1367 as amended; consolidated text J. o L. 2020, item 154).Regulation of the Minister of Family, Labour and Social Policy of 12 June 2018 on the highest permissible concentration and intensity of noxious agents for health at work environment (J. o L. item 1286 as amended).The announcement of Minister of Health dated 9 September 2016 concerning the consolidated text announcement of the decree of the Minister of Health of 30 December 2004 on health and safety at work related to exposure to chemical agents at work (J. o L. of 16 September 2016, item 1488)Regulation of the Minister of Health of 2 February 2011 on tests and measurements of the noxious agents for health at work environment (J. o L. No. 33, item 166 as amended).Regulation of the Minister of Environment of 9 December 2003 on particularly hazardous substances to the environment (J. o L. No. 217, item 2141).ADR Agreement: Government Statement of 13 March 2023 on the entry into force of amendments to Annexes A and B to the Agreement concerning the International Carriage of Dangerous Goods by Road (ADR), signed in Geneva on 30 September 1957 (J. o. L. 2023, item 891) |

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

|  |  |  |
| --- | --- | --- |
| Data sources | : | REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. |
| Other information | : | None. |

| Full text of H- and EUH-statements: |
| --- |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3 |
| Acute Tox. 3 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 3 |
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal), 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 |
| 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 Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Repr. 2 | Reproductive toxicity, Category 2 |
| 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 |
| H226 | Flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H304 | May be fatal if swallowed and enters airways. |
| H312 | Harmful in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

|  |  |  |
| --- | --- | --- |
| 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.