

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

#### 1.1. Product identifier

|                 |                              |
|-----------------|------------------------------|
| Product form    | : Mixture                    |
| Product name    | : Red Plum Freesia #EU31099F |
| UFI             | : Y04S-H22Y-V00V-FH99        |
| Product code    | : EU31099F                   |
| Type of product | : Perfumes, fragrances       |
| Product group   | : Trade product              |

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

##### 1.2.1. Relevant identified uses

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

##### 1.2.2. Uses advised against

No additional information available

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

FRENCH COLOR & FRAGRANCE International GmbH 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 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. May cause an allergic skin reaction. Very toxic to aquatic life. Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

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

|                         |   |   |   |
|-------------------------|---|---|---|
| Hazard pictograms (CLP) | : |  |  |
|                         |   | GHS07   | GHS09   |
| Signal word (CLP)       | : | Warning   |   |

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|                                |  |
|--------------------------------|--|
| Contains                       | : Benzyl benzoate, Aldehyde C-16, Eugenol, Iso E Super, Linalool, Orange oil , Linalyl acetate, Hexyl cinnamic aldehyde, Geranyl acetate, Vertofix, Grapefruit oil, COUMARIN   |
| Hazard statements (CLP)        | : H302 - Harmful if swallowed.<br>H317 - May cause an allergic skin reaction.<br>H410 - Very toxic to aquatic life with long lasting effects.  |
| Precautionary statements (CLP) | : 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>P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.<br>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. |

### 2.3. Other hazards

Contains no PBT/vPvB substances  $\geq 0.1\%$  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 is 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

### 3.1. Substances

Not applicable

### 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  | 18.8 – 37.52 | Acute Tox. 4 (Oral), H302<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411 |
| Hexamethylindanopyran | 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 | 2.8 – 5.579  | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                              |
| Ethylene brassylate   | CAS-No.: 105-95-3<br>EC-No.: 203-347-8<br>REACH-no: 01-2119976314-33                                | 2.6 – 5.2632 | Aquatic Chronic 2, H411   |
| Aldehyde C-16         | CAS-No.: 77-83-8<br>EC-No.: 201-061-8<br>REACH-no: 01-2119967770-28                                 | 1.8 – 3.6842 | Skin Sens. 1B, H317<br>Aquatic Chronic 2, H411                                |
| Eugenol               | CAS-No.: 97-53-0<br>EC-No.: 202-589-1<br>REACH-no: 01-2119971802-33                                 | 1.2 – 2.4211 | Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317        |
| Iso E Super           | CAS-No.: 54464-57-2<br>EC-No.: 259-174-3<br>REACH-no: 01-2119489989-04                              | 1.1 – 2.2105 | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 1, H410          |

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| Name                                   | Product identifier  | %            | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|--|---|--------------|--|
| 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 | 1 – 2.053126 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317   |
| Oxypheylon (Raspberry ketone) crystals | CAS-No.: 5471-51-2<br>EC-No.: 226-806-4   | 0.9 – 1.8947 | Acute Tox. 4 (Oral), H302  |
| Orange oil                             | CAS-No.: 8008-57-9<br>EC-No.: 232-433-8<br>REACH-no: 01-2119493353-35                             | 0.9 – 1.7368 | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411     |
| Aldehyde C-14                          | CAS-No.: 104-67-6<br>EC-No.: 203-225-4<br>REACH-no: 01-2119959333-34                              | 0.8 – 1.6316 | Aquatic Chronic 3, H412  |
| Verdox                                 | CAS-No.: 88-41-5<br>EC-No.: 201-828-7<br>REACH-no: 01-2119970713-33                               | 0.8 – 1.579  | Aquatic Chronic 2, H411  |
| Linalyl acetate                        | CAS-No.: 115-95-7<br>EC-No.: 204-116-4<br>REACH-no: 01-2119454789-19                              | 0.6 – 1.1053 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317  |
| Hexyl cinnamic aldehyde                | CAS-No.: 101-86-0<br>EC-No.: 202-983-3<br>REACH-no: 01-2119533092-50                              | 0.6 – 1.1053 | Skin Sens. 1, H317<br>Aquatic Chronic 2, H411  |
| Geranyl acetate                        | CAS-No.: 105-87-3<br>EC-No.: 203-341-5<br>REACH-no: 01-2119973480-35                              | 0.5 – 0.9474 | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412   |
| acetyl cedrene                         | CAS-No.: 32388-55-9<br>EC-No.: 251-020-3<br>REACH-no: 01-2119969651-28                            | 0.3 – 0.6316 | Skin Sens. 1B, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410  |
| Allyl amyl glycolate                   | CAS-No.: 67634-00-8<br>EC-No.: 266-803-5  | 0.2 – 0.4211 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Acute Tox. 2 (Inhalation), H330  |
| Grapefruit oil                         | CAS-No.: 8016-20-4<br>EC-No.: 289-904-6;600-007-4   | 0.2 – 0.3158 | 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                               | 0.1 – 0.2632 | Acute Tox. 3 (Oral), H301<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Inhalation), H331<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411 |

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| Name  | Product identifier   | %            | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|---|--|--------------|---|
| Benzyl alcohol<br>substance with national workplace exposure limit(s)<br>(BG, CZ, DE, FI, LT, LV, PL, SI, CH) | CAS-No.: 100-51-6<br>EC-No.: 202-859-9<br>EC Index-No.: 603-057-00-5<br>REACH-no: 01-2119492630-38               | 0.1 – 0.2105 | Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Inhalation), H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319   |
| Ethyl acetoacetate<br>substance with national workplace exposure limit(s)<br>(RO)                             | CAS-No.: 141-97-9<br>EC-No.: 205-516-1   | 0.1 – 0.2105 | Not classified  |
| 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   | 0.1 – 0.2105 | 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 – 0.01315  | Flam. Liq. 3, H226  |
| .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 – 0.01315  | Flam. Liq. 3, H226  |
| 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.: 227-813-5<br>EC Index-No.: 601-029-00-7;601-096-00-2<br>REACH-no: 01-2119493353-35 | 0 – 0.00526  | 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                           |
| decyl alcohol<br>substance with national workplace exposure limit(s)<br>(BG, DE, LT, LV, RO, CH)              | CAS-No.: 112-30-1<br>EC-No.: 203-956-9   | 0 – 0.0029   | Aquatic Chronic 3, H412   |
| p-Cymene<br>substance with national workplace exposure limit(s)<br>(DK, EE, LT, LV, SE)                       | CAS-No.: 99-87-6<br>EC-No.: 202-796-7<br>EC Index-No.: 601-094-00-1  | 0 – 0.00263  | Flam. Liq. 3, H226<br>Acute Tox. 3 (Inhalation), H331<br>Acute Tox. 3 (Inhalation:dust,mist), H331<br>Repr. 2, H361<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |
| Aldehyde C-6<br>substance with national workplace exposure limit(s)<br>(FI, PL)                               | CAS-No.: 66-25-1<br>EC-No.: 200-624-5  | 0 – 0.0007   | Flam. Liq. 3, H226  |

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            | : 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.   |
| First-aid measures after skin contact | : 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  | : Rinse eyes with water as a precaution.   |
| First-aid measures after ingestion    | : 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 after skin contact | : May cause an allergic skin reaction. |
|-------------------------------------|--|

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### 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 : Water spray. Dry powder. Foam. Carbon dioxide.

### 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

Protection during firefighting : 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

#### 6.1.1. For non-emergency personnel

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

#### 6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 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.  
Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

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. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.  
Hygiene measures : Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. 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 : Store in a well-ventilated place. Keep cool.  
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.

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### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

| Benzyl alcohol (100-51-6)                                |   |
|--|---|
| <b>Bulgaria - Occupational Exposure Limits</b>           |   |
| OEL TWA  | 5 mg/m <sup>3</sup>   |
| <b>Czech Republic - Occupational Exposure Limits</b>     |   |
| PEL (OEL TWA)  | 40 mg/m <sup>3</sup>  |
| <b>Finland - Occupational Exposure Limits</b>            |   |
| HTP (OEL TWA) [1]  | 45 mg/m <sup>3</sup>  |
| HTP (OEL TWA) [2]  | 10 ppm  |
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b> |   |
| AGW (OEL TWA) [1]  | 22 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| AGW (OEL TWA) [2]  | 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   |
| <b>Latvia - Occupational Exposure Limits</b>             |   |
| OEL TWA  | 5 mg/m <sup>3</sup>   |
| <b>Lithuania - Occupational Exposure Limits</b>          |   |
| IPRV (OEL TWA)   | 5 mg/m <sup>3</sup>   |
| OEL chemical category                                    | Skin notation   |
| <b>Poland - Occupational Exposure Limits</b>             |   |
| NDS (OEL TWA)  | 240 mg/m <sup>3</sup>   |
| <b>Slovenia - Occupational Exposure Limits</b>           |   |
| OEL TWA  | 22 mg/m <sup>3</sup>  |
| OEL TWA [ppm]  | 5 ppm   |
| OEL STEL   | 44 mg/m <sup>3</sup>  |
| OEL STEL [ppm]   | 10 ppm  |
| OEL chemical category                                    | Potential for cutaneous absorption  |
| <b>Switzerland - Occupational Exposure Limits</b>        |   |
| MAK (OEL TWA) [1]  | 22 mg/m <sup>3</sup> (aerosol, vapour)  |
| MAK (OEL TWA) [2]  | 5 ppm (aerosol, vapour)   |
| OEL chemical category                                    | Skin notation   |
| <b>Ethyl acetoacetate (141-97-9)</b>                     |   |
| <b>Romania - Occupational Exposure Limits</b>            |   |
| OEL TWA  | 100 mg/m <sup>3</sup>   |

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| <b>Ethyl acetoacetate (141-97-9)</b>              |   |
|---|---|
| OEL TWA [ppm]                                     | 19 ppm                                      |
| OEL STEL  | 200 mg/m <sup>3</sup>                       |
| OEL STEL [ppm]                                    | 38 ppm                                      |
| <b>Benzyl acetate (140-11-4)</b>                  |   |
| <b>Belgium - Occupational Exposure Limits</b>     |   |
| OEL TWA   | 62 mg/m <sup>3</sup>                        |
| OEL TWA [ppm]                                     | 10 ppm                                      |
| <b>Denmark - Occupational Exposure Limits</b>     |   |
| OEL TWA [1]                                       | 61 mg/m <sup>3</sup>                        |
| OEL TWA [2]                                       | 10 ppm                                      |
| <b>Ireland - Occupational Exposure Limits</b>     |   |
| OEL TWA [2]                                       | 10 ppm                                      |
| OEL STEL [ppm]                                    | 30 ppm (calculated)                         |
| <b>Latvia - Occupational Exposure Limits</b>      |   |
| OEL TWA   | 5 mg/m <sup>3</sup>                         |
| <b>Lithuania - Occupational Exposure Limits</b>   |   |
| IPRV (OEL TWA)                                    | 5 mg/m <sup>3</sup>                         |
| <b>Portugal - Occupational Exposure Limits</b>    |   |
| OEL TWA [ppm]                                     | 10 ppm                                      |
| OEL chemical category                             | A4 - Not Classifiable as a Human Carcinogen |
| <b>Romania - Occupational Exposure Limits</b>     |   |
| OEL TWA   | 50 mg/m <sup>3</sup>                        |
| OEL TWA [ppm]                                     | 8 ppm                                       |
| OEL STEL  | 80 mg/m <sup>3</sup>                        |
| OEL STEL [ppm]                                    | 13 ppm                                      |
| <b>Spain - Occupational Exposure Limits</b>       |   |
| VLA-ED (OEL TWA) [1]                              | 62 mg/m <sup>3</sup>                        |
| VLA-ED (OEL TWA) [2]                              | 10 ppm                                      |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |   |
| ACGIH OEL TWA [ppm]                               | 10 ppm                                      |
| ACGIH chemical category                           | Not Classifiable as a Human Carcinogen      |
| <b>d-Limonene (5989-27-5)</b>                     |   |
| <b>Finland - Occupational Exposure Limits</b>     |   |
| HTP (OEL TWA) [1]                                 | 140 mg/m <sup>3</sup>                       |
| HTP (OEL TWA) [2]                                 | 25 ppm                                      |
| HTP (OEL STEL)                                    | 280 mg/m <sup>3</sup>                       |
| HTP (OEL STEL) [ppm]                              | 50 ppm                                      |

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| <b>d-Limonene (5989-27-5)</b>                            |   |
|--|---|
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b> |   |
| AGW (OEL TWA) [1]  | 28 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| AGW (OEL TWA) [2]  | 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   |
| <b>Slovenia - Occupational Exposure Limits</b>           |   |
| OEL TWA  | 28 mg/m <sup>3</sup>  |
| OEL TWA [ppm]  | 5 ppm   |
| OEL STEL   | 112 mg/m <sup>3</sup>   |
| OEL STEL [ppm]   | 20 ppm  |
| OEL chemical category                                    | Potential for cutaneous absorption  |
| <b>Spain - Occupational Exposure Limits</b>              |   |
| VLA-ED (OEL TWA) [1]                                     | 168 mg/m <sup>3</sup>   |
| VLA-ED (OEL TWA) [2]                                     | 30 ppm  |
| OEL chemical category                                    | Sensitizer, skin - potential for cutaneous absorption   |
| <b>Norway - Occupational Exposure Limits</b>             |   |
| Grenseverdi (OEL TWA) [1]                                | 140 mg/m <sup>3</sup>   |
| Grenseverdi (OEL TWA) [2]                                | 25 ppm  |
| Korttidsverdi (OEL STEL)                                 | 175 mg/m <sup>3</sup> (value calculated)  |
| Korttidsverdi (OEL STEL) [ppm]                           | 37.5 ppm (value calculated)   |
| OEL chemical category                                    | Allergenic substance  |
| <b>Switzerland - Occupational Exposure Limits</b>        |   |
| MAK (OEL TWA) [1]  | 40 mg/m <sup>3</sup>  |
| MAK (OEL TWA) [2]  | 7 ppm   |
| KZGW (OEL STEL)  | 80 mg/m <sup>3</sup>  |
| KZGW (OEL STEL) [ppm]                                    | 14 ppm  |
| OEL chemical category                                    | Sensitizer  |
| <b>p-Cymene (99-87-6)</b>                                |   |
| <b>Denmark - Occupational Exposure Limits</b>            |   |
| OEL TWA [1]  | 135 mg/m <sup>3</sup> (Methylisopropylbenzenes)   |
| OEL TWA [2]  | 25 ppm (Methylisopropylbenzenes)  |
| <b>Estonia - Occupational Exposure Limits</b>            |   |
| OEL TWA  | 140 mg/m <sup>3</sup>   |
| OEL TWA [ppm]  | 25 ppm  |
| OEL STEL   | 190 mg/m <sup>3</sup>   |
| OEL STEL [ppm]   | 35 ppm  |
| <b>Latvia - Occupational Exposure Limits</b>             |   |
| OEL TWA  | 10 mg/m <sup>3</sup> (Cymene (2, 3, 4-isomers mixture))   |



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| <b>p-Cymene (99-87-6)</b>                       |   |
|---|---|
| <b>Lithuania - Occupational Exposure Limits</b> |   |
| IPRV (OEL TWA)                                  | 140 mg/m <sup>3</sup>                                   |
| IPRV (OEL TWA) [ppm]                            | 25 ppm  |
| TPRV (OEL STEL)                                 | 190 mg/m <sup>3</sup>                                   |
| TPRV (OEL STEL) [ppm]                           | 35 ppm  |
| <b>Sweden - Occupational Exposure Limits</b>    |   |
| NGV (OEL TWA)                                   | 140 mg/m <sup>3</sup>                                   |
| NGV (OEL TWA) [ppm]                             | 25 ppm  |
| KTV (OEL STEL)                                  | 190 mg/m <sup>3</sup>                                   |
| KTV (OEL STEL) [ppm]                            | 35 ppm  |
| <b>.beta.-Pinene (127-91-3)</b>                 |   |
| <b>Belgium - Occupational Exposure Limits</b>   |   |
| OEL TWA [ppm]                                   | 20 ppm  |
| <b>Estonia - Occupational Exposure Limits</b>   |   |
| OEL TWA   | 150 mg/m <sup>3</sup>                                   |
| OEL TWA [ppm]                                   | 25 ppm  |
| OEL STEL  | 300 mg/m <sup>3</sup>                                   |
| OEL STEL [ppm]                                  | 50 ppm  |
| <b>Lithuania - Occupational Exposure Limits</b> |   |
| IPRV (OEL TWA)                                  | 150 mg/m <sup>3</sup>                                   |
| IPRV (OEL TWA) [ppm]                            | 25 ppm  |
| TPRV (OEL STEL)                                 | 300 mg/m <sup>3</sup>                                   |
| TPRV (OEL STEL) [ppm]                           | 50 ppm  |
| <b>Portugal - Occupational Exposure Limits</b>  |   |
| OEL TWA [ppm]                                   | 20 ppm (Turpentine and selected Monoterpenes)           |
| OEL chemical category                           | Sensitizer, A4 - Not Classifiable as a Human Carcinogen |
| <b>Spain - Occupational Exposure Limits</b>     |   |
| VLA-ED (OEL TWA) [1]                            | 113 mg/m <sup>3</sup>                                   |
| VLA-ED (OEL TWA) [2]                            | 20 ppm  |
| OEL chemical category                           | Sensitizer  |
| <b>Sweden - Occupational Exposure Limits</b>    |   |
| NGV (OEL TWA)                                   | 150 mg/m <sup>3</sup>                                   |
| NGV (OEL TWA) [ppm]                             | 25 ppm  |
| KTV (OEL STEL)                                  | 300 mg/m <sup>3</sup>                                   |
| KTV (OEL STEL) [ppm]                            | 50 ppm  |
| OEL chemical category                           | Sensitizer  |
| <b>Norway - Occupational Exposure Limits</b>    |   |
| Grønseverdi (OEL TWA) [1]                       | 140 mg/m <sup>3</sup>                                   |
| Grønseverdi (OEL TWA) [2]                       | 25 ppm  |

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| <b>.beta.-Pinene (127-91-3)</b>                   |   |
|---|---|
| Korttidsverdi (OEL STEL)                          | 175 mg/m <sup>3</sup> (value calculated)                  |
| Korttidsverdi (OEL STEL) [ppm]                    | 37.5 ppm (value calculated)                               |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |   |
| ACGIH OEL TWA [ppm]                               | 20 ppm (Turpentine and selected monoterpenes)             |
| ACGIH chemical category                           | Not Classifiable as a Human Carcinogen, dermal sensitizer |
| <b>.alpha.-Pinene (80-56-8)</b>                   |   |
| <b>Belgium - Occupational Exposure Limits</b>     |   |
| OEL TWA [ppm]                                     | 20 ppm  |
| <b>Estonia - Occupational Exposure Limits</b>     |   |
| OEL TWA   | 150 mg/m <sup>3</sup>                                     |
| OEL TWA [ppm]                                     | 25 ppm  |
| OEL STEL  | 300 mg/m <sup>3</sup>                                     |
| OEL STEL [ppm]                                    | 50 ppm  |
| <b>Lithuania - Occupational Exposure Limits</b>   |   |
| IPRV (OEL TWA)                                    | 150 mg/m <sup>3</sup>                                     |
| IPRV (OEL TWA) [ppm]                              | 25 ppm  |
| TPRV (OEL STEL)                                   | 300 mg/m <sup>3</sup>                                     |
| TPRV (OEL STEL) [ppm]                             | 50 ppm  |
| <b>Portugal - Occupational Exposure Limits</b>    |   |
| OEL TWA [ppm]                                     | 20 ppm (Turpentine and selected Monoterpenes)             |
| OEL chemical category                             | Sensitizer, A4 - Not Classifiable as a Human Carcinogen   |
| <b>Spain - Occupational Exposure Limits</b>       |   |
| VLA-ED (OEL TWA) [1]                              | 113 mg/m <sup>3</sup>                                     |
| VLA-ED (OEL TWA) [2]                              | 20 ppm  |
| OEL chemical category                             | Sensitizer  |
| <b>Sweden - Occupational Exposure Limits</b>      |   |
| NGV (OEL TWA)                                     | 150 mg/m <sup>3</sup>                                     |
| NGV (OEL TWA) [ppm]                               | 25 ppm  |
| KTV (OEL STEL)                                    | 300 mg/m <sup>3</sup>                                     |
| KTV (OEL STEL) [ppm]                              | 50 ppm  |
| OEL chemical category                             | Sensitizer  |
| <b>Norway - Occupational Exposure Limits</b>      |   |
| Grenseverdi (OEL TWA) [1]                         | 140 mg/m <sup>3</sup>                                     |
| Grenseverdi (OEL TWA) [2]                         | 25 ppm  |
| Korttidsverdi (OEL STEL)                          | 175 mg/m <sup>3</sup> (value calculated)                  |
| Korttidsverdi (OEL STEL) [ppm]                    | 37.5 ppm (value calculated)                               |
| OEL chemical category                             | Skin notation   |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |   |
| ACGIH OEL TWA [ppm]                               | 20 ppm (Turpentine and selected monoterpenes)             |

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| <b>.alpha.-Pinene (80-56-8)</b>                          |   |
|--|---|
| ACGIH chemical category                                  | Not Classifiable as a Human Carcinogen, dermal sensitizer   |
| <b>decyl alcohol (112-30-1)</b>                          |   |
| <b>Bulgaria - Occupational Exposure Limits</b>           |   |
| OEL TWA  | 10 mg/m <sup>3</sup>  |
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b> |   |
| AGW (OEL TWA) [1]  | 66 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| AGW (OEL TWA) [2]  | 10 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)               |
| <b>Latvia - Occupational Exposure Limits</b>             |   |
| OEL TWA  | 10 mg/m <sup>3</sup>  |
| <b>Lithuania - Occupational Exposure Limits</b>          |   |
| IPRV (OEL TWA)   | 10 mg/m <sup>3</sup>  |
| <b>Romania - Occupational Exposure Limits</b>            |   |
| OEL TWA  | 100 mg/m <sup>3</sup>   |
| OEL TWA [ppm]  | 15 ppm  |
| OEL STEL   | 200 mg/m <sup>3</sup>   |
| OEL STEL [ppm]   | 30 ppm  |
| <b>Switzerland - Occupational Exposure Limits</b>        |   |
| MAK (OEL TWA) [1]  | 66 mg/m <sup>3</sup> (aerosol, vapour)  |
| MAK (OEL TWA) [2]  | 10 ppm (aerosol, vapour)  |
| KZGW (OEL STEL)  | 66 mg/m <sup>3</sup> (aerosol, vapour)  |
| KZGW (OEL STEL) [ppm]                                    | 10 ppm (aerosol, vapour)  |
| <b>Aldehyde C-6 (66-25-1)</b>                            |   |
| <b>Finland - Occupational Exposure Limits</b>            |   |
| HTP (OEL STEL)   | 42 mg/m <sup>3</sup>  |
| HTP (OEL STEL) [ppm]                                     | 10 ppm  |
| <b>Poland - Occupational Exposure Limits</b>             |   |
| NDS (OEL TWA)  | 40 mg/m <sup>3</sup>  |
| NDSch (OEL STEL)   | 80 mg/m <sup>3</sup>  |

### 8.1.2. Recommended monitoring procedures

No additional information available

### 8.1.3. Air contaminants formed

No additional information available

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

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### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

**Appropriate engineering controls:**

Ensure good ventilation of the work station.

#### 8.2.2. Personal protection equipment

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



##### 8.2.2.1. Eye and face protection

**Eye protection:**

Safety glasses

##### 8.2.2.2. Skin protection

**Skin and body protection:**

Wear suitable protective clothing

**Hand protection:**

Protective gloves

##### 8.2.2.3. Respiratory protection

**Respiratory protection:**

In case of insufficient ventilation, wear suitable respiratory equipment

##### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

**Environmental exposure controls:**

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

|   |                                   |
|---|-----------------------------------|
| Physical state                                  | : Liquid                          |
| Colour  | : light yellow. amber.            |
| Odour   | : characteristic.                 |
| Odour threshold                                 | : Not available                   |
| Melting point                                   | : Not applicable                  |
| Freezing point                                  | : Not available                   |
| Boiling point                                   | : Not available                   |
| Flammability                                    | : Not applicable                  |
| Explosive limits                                | : Not available                   |
| Lower explosion limit                           | : Not available                   |
| Upper explosion limit                           | : Not available                   |
| Flash point                                     | : > 93 °C (closed cup) ASTM D7094 |
| 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                                | : ≈ 1.05                          |

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Relative vapour density at 20°C : Not available  
Particle characteristics : Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## 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

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 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

| Red Plum Freesia #EU31099F        |                           |
|-----------------------------------|---------------------------|
| ATE CLP (oral)                    | 1244.372 mg/kg bodyweight |
| Benzyl benzoate (120-51-4)        |                           |
| LD50 oral rat                     | 500 mg/kg                 |
| LD50 oral                         | 1500 mg/kg bodyweight     |
| LD50 dermal rabbit                | 4000 mg/kg                |
| LD50 dermal                       | 4000 mg/kg bodyweight     |
| Hexamethylindanopyran (1222-05-5) |                           |
| LD50 oral rat                     | > 3250 mg/kg              |
| LD50 dermal rabbit                | > 3250 mg/kg              |
| Ethylene brassylate (105-95-3)    |                           |
| LD50 oral rat                     | > 5000 mg/kg              |

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| Ethylene brassylate (105-95-3)                     |                       |
|--|-----------------------|
| LD50 dermal rabbit                                 | > 5000 mg/kg          |
| Aldehyde C-16 (77-83-8)                            |                       |
| LD50 oral rat                                      | 5470 mg/kg            |
| LD50 dermal rat                                    | > 2000 mg/kg          |
| Eugenol (97-53-0)                                  |                       |
| LD50 oral rat                                      | 1930 mg/kg            |
| LD50 oral  | 2500 mg/kg bodyweight |
| Linalool (78-70-6)                                 |                       |
| LD50 oral  | 2790 mg/kg bodyweight |
| Oxypheylon (Raspberry ketone) crystals (5471-51-2) |                       |
| LD50 oral rat                                      | 1320 mg/kg            |
| LD50 dermal rat                                    | > 2000 mg/kg          |
| Orange oil (8008-57-9)                             |                       |
| LD50 oral rat                                      | 4400 mg/kg            |
| LD50 dermal rabbit                                 | > 5000 mg/kg          |
| Aldehyde C-14 (104-67-6)                           |                       |
| LD50 oral rat                                      | 18500 mg/kg           |
| LD50 dermal rat                                    | > 2000 mg/kg          |
| Verdox (88-41-5)                                   |                       |
| LD50 oral rat                                      | 4600 mg/kg            |
| LD50 oral  | 4600 mg/kg bodyweight |
| Linalyl acetate (115-95-7)                         |                       |
| LD50 oral rat                                      | 14550 mg/kg           |
| LD50 dermal rabbit                                 | > 5000 mg/kg          |
| Hexyl cinnamic aldehyde (101-86-0)                 |                       |
| LD50 oral rat                                      | 3100 mg/kg            |
| LD50 oral  | 3100 mg/kg bodyweight |
| LD50 dermal rabbit                                 | > 3000 mg/kg          |
| LC50 Inhalation - Rat                              | > 5 mg/l/4h           |
| Geranyl acetate (105-87-3)                         |                       |
| LD50 oral rat                                      | 6330 mg/kg            |
| acetyl cedrene (32388-55-9)                        |                       |
| LD50 oral  | 4500 mg/kg bodyweight |
| LD50 dermal rabbit                                 | > 5000 mg/kg          |
| Allyl amyl glycolate (67634-00-8)                  |                       |
| LD50 oral  | 500 mg/kg bodyweight  |
| LD50 dermal rat                                    | > 2000 mg/kg          |

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| <b>Allyl amyl glycolate (67634-00-8)</b> |                                 |
|--|---------------------------------|
| LC50 Inhalation - Rat                    | 0.43 mg/l/4h                    |
| LC50 Inhalation - Rat (Dust/Mist)        | 0.5 mg/l/4h                     |
| <b>Grapefruit oil (8016-20-4)</b>        |                                 |
| LD50 oral rat                            | > 5 g/kg                        |
| <b>COUMARIN (91-64-5)</b>                |                                 |
| LD50 oral rat                            | > 5000 mg/kg                    |
| LD50 oral                                | 500 mg/kg bodyweight            |
| LD50 dermal rat                          | 293 mg/kg                       |
| <b>Benzyl alcohol (100-51-6)</b>         |                                 |
| LD50 oral rat                            | 1230 mg/kg                      |
| LD50 oral                                | 1620 mg/kg bodyweight           |
| LD50 dermal                              | 2500 mg/kg bodyweight           |
| <b>Ethyl acetoacetate (141-97-9)</b>     |                                 |
| LD50 oral rat                            | 3980 mg/kg                      |
| LD50 dermal rabbit                       | > 5000 mg/kg                    |
| <b>Benzyl acetate (140-11-4)</b>         |                                 |
| LD50 oral rat                            | 2490 mg/kg                      |
| LD50 oral                                | 2490 mg/kg bodyweight           |
| LD50 dermal rabbit                       | > 5000 mg/kg                    |
| <b>d-Limonene (5989-27-5)</b>            |                                 |
| LD50 oral rat                            | 4400 mg/kg                      |
| LD50 dermal rabbit                       | > 5 g/kg                        |
| <b>p-Cymene (99-87-6)</b>                |                                 |
| LD50 oral rat                            | 4750 mg/kg                      |
| LD50 oral                                | 4750 mg/kg bodyweight           |
| LD50 dermal rabbit                       | > 5000 mg/kg                    |
| LC50 Inhalation - Rat                    | > 9.7 mg/l (Exposure time: 5 h) |
| LC50 Inhalation - Rat (Vapours)          | 9.7 mg/l/4h                     |
| <b>.beta.-Pinene (127-91-3)</b>          |                                 |
| LD50 oral rat                            | > 5000 mg/kg                    |
| LD50 dermal rabbit                       | > 5000 mg/kg                    |
| <b>.alpha.-Pinene (80-56-8)</b>          |                                 |
| LD50 oral rat                            | 3700 mg/kg                      |
| LD50 oral                                | 500 mg/kg bodyweight            |
| LD50 dermal rat                          | > 5000 mg/kg                    |
| <b>decyl alcohol (112-30-1)</b>          |                                 |
| LD50 oral rat                            | 4720 mg/kg                      |

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| decyl alcohol (112-30-1)          |  |
|-----------------------------------|--|
| LD50 dermal rabbit                | 3560 mg/kg                             |
| Aldehyde C-6 (66-25-1)            |  |
| LD50 oral rat                     | 4890 mg/kg                             |
| LD50 dermal rabbit                | > 8100 mg/kg                           |
| Skin corrosion/irritation         | : Not classified                       |
| Serious eye damage/irritation     | : Not classified                       |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity            | : Not classified                       |
| Carcinogenicity                   | : Not classified                       |
| Eugenol (97-53-0)                 |  |
| IARC group                        | 3 - Not classifiable                   |
| COUMARIN (91-64-5)                |  |
| IARC group                        | 3 - Not classifiable                   |
| Benzyl acetate (140-11-4)         |  |
| IARC group                        | 3 - Not classifiable                   |
| d-Limonene (5989-27-5)            |  |
| IARC group                        | 3 - Not classifiable                   |
| Reproductive toxicity             | : Not classified                       |
| STOT-single exposure              | : Not classified                       |
| STOT-repeated exposure            | : Not classified                       |
| Aspiration hazard                 | : Not classified                       |
| Benzyl benzoate (120-51-4)        |  |
| Viscosity, kinematic              | 7.456 mm <sup>2</sup> /s               |
| Orange oil (8008-57-9)            |  |
| Hydrocarbon                       | Yes                                    |

### 11.2. Information on other hazards

No additional information available

## 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.                             |

| Benzyl benzoate (120-51-4)         |  |
|------------------------------------|--|
| LC50 - Fish [1]                    | 2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static]) |
| NOEC (chronic)                     | 0.168 mg/l   |
| Hexamethylindanopyran (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                        |



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| <b>Hexamethylindanopyran (1222-05-5)</b> |  |
|--|--|
| EC50 - Crustacea [2]                     | 260 µg/l REACH Dossier   |
| EC50 - Other aquatic organisms [1]       | 0.131 mg/l REACH Dossier   |
| <b>Aldehyde C-16 (77-83-8)</b>           |  |
| LC50 - Fish [1]                          | 4.2 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [semi-static])            |
| <b>Eugenol (97-53-0)</b>                 |  |
| LC50 - Fish [1]                          | 13 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static])                     |
| <b>Linalool (78-70-6)</b>                |  |
| EC50 96h - Algae [1]                     | 88.3 mg/l (Species: Desmodesmus subspicatus)   |
| <b>Aldehyde C-14 (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>Linalyl acetate (115-95-7)</b>        |  |
| LC50 - Fish [1]                          | 11 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through])                |
| <b>Benzyl alcohol (100-51-6)</b>         |  |
| LC50 - Fish [1]                          | 460 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])                 |
| LC50 - Fish [2]                          | 10 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])                  |
| EC50 - Crustacea [1]                     | 23 mg/l (Exposure time: 48 h - Species: water flea)                                    |
| <b>Ethyl acetoacetate (141-97-9)</b>     |  |
| LC50 - Fish [1]                          | 298 mg/l (Exposure time: 96 h - Species: Pimephales promelas)                          |
| LC50 - Fish [2]                          | 290 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)                          |
| EC50 - Crustacea [1]                     | 646 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                |
| EC50 72h - Algae [1]                     | > 500 mg/l (Species: Desmodesmus subspicatus)  |
| <b>d-Limonene (5989-27-5)</b>            |  |
| LC50 - Fish [1]                          | 0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| LC50 - Fish [2]                          | 35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)                           |
| <b>.alpha.-Pinene (80-56-8)</b>          |  |
| LC50 - Fish [1]                          | 0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])                |
| EC50 - Crustacea [1]                     | 41 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                 |
| <b>decyl alcohol (112-30-1)</b>          |  |
| LC50 - Fish [1]                          | 2.2 – 2.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])     |
| LC50 - Fish [2]                          | 4.12 – 6.2 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])          |
| EC50 - Crustacea [1]                     | 3 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                  |
| <b>Aldehyde C-6 (66-25-1)</b>            |  |
| LC50 - Fish [1]                          | 12 – 16.5 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])     |

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### 12.2. Persistence and degradability

#### Benzyl benzoate (120-51-4)

|                               |   |
|-------------------------------|---|
| Persistence and degradability | May cause long-term adverse effects in the environment. |
|-------------------------------|---|

### 12.3. Bioaccumulative potential

#### Benzyl benzoate (120-51-4)

|   |                 |
|---|-----------------|
| Partition coefficient n-octanol/water (Log Pow) | 3.97 (at 25 °C) |
|---|-----------------|

|                           |                  |
|---------------------------|------------------|
| Bioaccumulative potential | Not established. |
|---------------------------|------------------|

#### Hexamethylindanopyran (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)) |
|---|--------------------------|

#### Ethylene brassylate (105-95-3)

|   |                              |
|---|------------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 4.3 (at 25 °C (at pH 6.4-7)) |
|---|------------------------------|

#### Aldehyde C-16 (77-83-8)

|   |                             |
|---|-----------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 2.4 (at 25 °C (cis isomer)) |
|---|-----------------------------|

#### Eugenol (97-53-0)

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

#### Oxyphelylon (Raspberry ketone) crystals (5471-51-2)

|   |                 |
|---|-----------------|
| Partition coefficient n-octanol/water (Log Pow) | 1.33 (at 20 °C) |
|---|-----------------|

#### Aldehyde C-14 (104-67-6)

|   |                |
|---|----------------|
| Partition coefficient n-octanol/water (Log Pow) | 3.6 (at 25 °C) |
|---|----------------|

#### Linalyl acetate (115-95-7)

|   |                |
|---|----------------|
| Partition coefficient n-octanol/water (Log Pow) | 3.9 (at 25 °C) |
|---|----------------|

#### Geranyl acetate (105-87-3)

|   |      |
|---|------|
| Partition coefficient n-octanol/water (Log Pow) | 4.04 |
|---|------|

#### acetyl cedrene (32388-55-9)

|                |                                   |
|----------------|-----------------------------------|
| BCF - Fish [1] | (3920 dimensionless (organ w.w.)) |
|----------------|-----------------------------------|

|   |           |
|---|-----------|
| Partition coefficient n-octanol/water (Log Pow) | 5.6 – 5.9 |
|---|-----------|

#### Allyl amyl glycolate (67634-00-8)

|   |                             |
|---|-----------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 1.96 (at 25 °C (at pH 2.3)) |
|---|-----------------------------|

#### Benzyl alcohol (100-51-6)

|   |      |
|---|------|
| Partition coefficient n-octanol/water (Log Pow) | 1.05 |
|---|------|

#### Ethyl acetoacetate (141-97-9)

|   |                |
|---|----------------|
| Partition coefficient n-octanol/water (Log Pow) | 0.8 (at 20 °C) |
|---|----------------|

#### Benzyl acetate (140-11-4)

|   |                           |
|---|---------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 1.96 (at 25 °C (at pH 7)) |
|---|---------------------------|

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| <b>d-Limonene (5989-27-5)</b>                   |                             |
|---|-----------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 4.38 (at 37 °C (at pH 7.2)) |
| <b>p-Cymene (99-87-6)</b>                       |                             |
| Partition coefficient n-octanol/water (Log Pow) | 4.8 (at 20 °C (at pH 7))    |
| Partition coefficient n-octanol/water (Log Kow) | 0                           |
| <b>.alpha.-Pinene (80-56-8)</b>                 |                             |
| Partition coefficient n-octanol/water (Log Pow) | 4.1                         |
| <b>decyl alcohol (112-30-1)</b>                 |                             |
| Partition coefficient n-octanol/water (Log Pow) | 4.5 (at 25 °C (at pH 6))    |
| <b>Aldehyde C-6 (66-25-1)</b>                   |                             |
| Partition coefficient n-octanol/water (Log Pow) | 2.3 (at 25 °C (at pH 5))    |

### 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

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods

HP Code

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

: HP3 - "Flammable:"

– flammable liquid waste: liquid waste having a flash point below 60 °C or waste gas oil, diesel and light heating oils having a flash point > 55 °C and ≤ 75 °C;

– flammable pyrophoric liquid and solid waste: solid or liquid waste which, even in small quantities, is liable to ignite within five minutes after coming into contact with air;

– flammable solid waste: solid waste which is readily combustible or may cause or contribute to fire through friction;

– flammable gaseous waste: gaseous waste which is flammable in air at 20 °C and a standard pressure of 101.3 kPa;

– water reactive waste: waste which, in contact with water, emits flammable gases in dangerous quantities;

– other flammable waste: flammable aerosols, flammable self-heating waste, flammable organic peroxides and flammable self-reactive waste.

HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.

HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

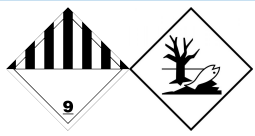
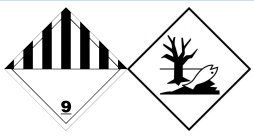
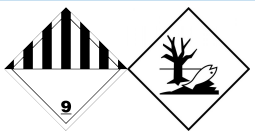
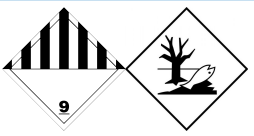
## SECTION 14: Transport information

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

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| ADR  | IMDG  | IATA  | ADN   | RID            |
|--|---|---|---|----------------|
| <b>14.1. UN number or ID number</b>  |   |   |   |                |
| UN 3082  | UN 3082   | UN 3082   | UN 3082   | Not applicable |
| <b>14.2. UN proper shipping name</b>   |   |   |   |                |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexamethylindanopyran)                      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexamethylindanopyran)                                   | Environmentally hazardous substance, liquid, n.o.s. (Hexamethylindanopyran)                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexamethylindanopyran)                 | Not applicable |
| <b>Transport document description</b>  |   |   |   |                |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexamethylindanopyran), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexamethylindanopyran), 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Hexamethylindanopyran), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Hexamethylindanopyran), 9, III | Not applicable |
| <b>14.3. Transport hazard class(es)</b>  |   |   |   |                |
| 9  | 9   | 9   | 9   | Not applicable |
|                |                             |           |          | Not applicable |
| <b>14.4. Packing group</b>   |   |   |   |                |
| III  | III   | III   | III   | Not applicable |
| <b>14.5. Environmental hazards</b>   |   |   |   |                |
| Dangerous for the environment: Yes   | Dangerous for the environment: Yes<br>Marine pollutant: Yes   | Dangerous for the environment: Yes  | Dangerous for the environment: Yes  | Not applicable |
| No supplementary information available   |   |   |   |                |

### 14.6. Special precautions for user


#### Overland transport

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

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|                               |   |   |
|-------------------------------|---|---|
| Orange plates                 | : |  |
| Tunnel restriction code (ADR) | : | -   |
| EAC code                      | : | •3Z   |

### Transport by sea

|                                   |   |               |
|-----------------------------------|---|---------------|
| Special provisions (IMDG)         | : | 274, 335, 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)    | : | TP2, TP29     |
| EmS-No. (Fire)                    | : | F-A           |
| EmS-No. (Spillage)                | : | S-F           |
| 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 |
| ERG code (IATA)                              | : | 9L              |

### Inland waterway transport

|                                   |   |                    |
|-----------------------------------|---|--------------------|
| Classification code (ADN)         | : | M6                 |
| Special provisions (ADN)          | : | 274, 335, 375, 601 |
| 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

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

#### 15.1.1. 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 ; Grapefruit oil | 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 |

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| EU restriction list (REACH Annex XVII) |  |  |
|--|--|--|
| Reference code                         | Applicable on  | Entry title or description   |
| 3(b)                                   | Red Plum Freesia #EU31099F ; Benzyl benzoate ; Aldehyde C-16 ; Eugenol ; Iso E Super ; Linalool ; Orange oil ; Linalyl acetate ; Hexyl cinnamic aldehyde ; Geranyl acetate ; acetyl cedrene ; Allyl amyl glycolate ; Grapefruit oil          | 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)                                   | Red Plum Freesia #EU31099F ; Benzyl benzoate ; Hexamethylindanopyran ; Ethylene brassylate ; Aldehyde C-16 ; Iso E Super ; Orange oil ; Aldehyde C-14 ; Verdox ; Hexyl cinnamic aldehyde ; Geranyl acetate ; acetyl cedrene ; Grapefruit oil | 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  |
| 40.                                    | Orange oil ; Grapefruit oil  | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. |

### 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 (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

### 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)

### 15.1.2. National regulations

#### Germany

- Employment restrictions : Observe restrictions according Act on the Protection of Working Mothers (MuSchG).  
Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).
- Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).
- Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

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### Netherlands

|  |   |
|--|---|
| ABM category                                       | : A(1) - highly toxic for aquatic organisms, may have longterm hazardous effects in aquatic environment |
| SZW-lijst van kankerverwekkende stoffen            | : Orange oil ,Allyl amyl glycolate,Grapefruit oil are listed  |
| SZW-lijst van mutagene stoffen                     | : Orange oil ,Allyl amyl glycolate,Grapefruit oil are listed  |
| SZW-lijst van reprotoxische stoffen – Borstvoeding | : None of the components are listed   |
| SZW-lijst van reprotoxische stoffen –              | : None of the components are listed   |
| Vruchtbaarheid                                     |   |
| 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 product<br>Pregnant/breastfeeding women working with the product must not be in direct contact with the product |

### Switzerland

|                    |                      |
|--------------------|----------------------|
| Storage class (LK) | : LK 10/12 - Liquids |
|--------------------|----------------------|

## 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## 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   |
| BCF                         | Bioconcentration factor   |
| BLV                         | Biological limit value  |
| BOD                         | Biochemical oxygen demand (BOD)   |
| COD                         | Chemical oxygen demand (COD)  |
| DMEL                        | Derived Minimal Effect level  |
| DNEL                        | Derived-No Effect Level   |
| EC-No.                      | European Community number   |
| EC50                        | Median effective concentration  |
| EN                          | European Standard   |
| IARC                        | International Agency for Research on Cancer   |
| 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  |
| OECD                        | Organisation for Economic Co-operation and Development  |

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| Abbreviations and acronyms: |  |
|-----------------------------|--|
| OEL                         | Occupational Exposure Limit  |
| PBT                         | Persistent Bioaccumulative Toxic   |
| PNEC                        | Predicted No-Effect Concentration  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet  |
| STP                         | Sewage treatment plant   |
| ThOD                        | Theoretical oxygen demand (ThOD)   |
| TLM                         | Median Tolerance Limit   |
| VOC                         | Volatile Organic Compounds   |
| CAS-No.                     | Chemical Abstract Service number   |
| N.O.S.                      | Not Otherwise Specified  |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| ED                          | Endocrine disrupting properties  |

| Full text of H- and EUH-statements: |   |
|-------------------------------------|---|
| Acute Tox. 2 (Inhalation)           | Acute toxicity (inhal.), Category 2                               |
| Acute Tox. 3 (Dermal)               | Acute toxicity (dermal), Category 3                               |
| Acute Tox. 3 (Inhalation)           | Acute toxicity (inhal.), Category 3                               |
| Acute Tox. 3 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 3                  |
| Acute Tox. 3 (Oral)                 | Acute toxicity (oral), Category 3                                 |
| Acute Tox. 4 (Inhalation)           | Acute toxicity (inhal.), 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                                     |
| Eye Irrit. 2                        | Serious eye damage/eye irritation, Category 2                     |
| Flam. Liq. 3                        | Flammable liquids, Category 3                                     |
| H226                                | Flammable liquid and vapour.                                      |
| H301                                | Toxic if swallowed.   |
| H302                                | Harmful if swallowed.   |
| H304                                | May be fatal if swallowed and enters airways.                     |
| H311                                | Toxic in contact with skin.                                       |
| H315                                | Causes skin irritation.   |
| H317                                | May cause an allergic skin reaction.                              |
| H319                                | Causes serious eye irritation.                                    |
| H330                                | Fatal if inhaled.   |



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| Full text of H- and EUH-statements: |   |
|-------------------------------------|---|
| H331                                | Toxic if inhaled.                                     |
| H332                                | Harmful 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.    |
| Repr. 2                             | Reproductive toxicity, Category 2                     |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                 |
| Skin Sens. 1                        | Skin sensitisation, Category 1                        |
| Skin Sens. 1B                       | Skin sensitisation, category 1B                       |

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.