

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

#### 1.1. Product identifier

|                 |                         |
|-----------------|-------------------------|
| Product form    | : Mixture               |
| Product name    | : Aloha O'Ahu #EU49095F |
| UFI             | : FRYW-D8N1-X007-KXFG   |
| Product code    | : EU49095F              |
| 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                | : Professional use, Industrial use        |
| Industrial/Professional use spec | : Industrial<br>For professional use only |
| Use of the substance/mixture     | : Perfumes, fragrances                    |
| Function or use category         | : Odour agents                            |

##### 1.2.2. 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 corrosion/irritation, Category 2                             | H315 |
| Serious eye damage/eye irritation, Category 1                     | H318 |
| Skin sensitisation, Category 1                                    | H317 |
| Hazardous to the aquatic environment — Chronic Hazard, Category 2 | H411 |

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

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

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

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### 2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

Contains

Hazard statements (CLP)

Precautionary statements (CLP)

- : Danger
- : Benzyl benzoate, Linalool, Benzyl salicylate, Iso E Super, Geraniol, Nerol, Cyclamal, d-Limonene, Linalyl acetate, HELIOTROPINE, Ylang ylang oil III, Methyl isoeugenol, Cedramber, Orange oil, delta-Damascone, Dipentene, Lime oil distilled, Triplal (Vertocitral), Geranyl acetate, Cistus oil (Labdanum oil)
- : H302 - Harmful if swallowed.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H318 - Causes serious eye damage.  
H411 - Toxic to aquatic life with long lasting effects.
- : P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P330 - Rinse mouth.  
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

## 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 | 10.6 – 21.2   | Acute Tox. 4 (Oral), H302<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411 |
| 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  | 5.005 – 10.01 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317              |
| 2-Hydroxybenzoic acid, benzyl ester | CAS-No.: 118-58-1<br>EC-No.: 204-262-9<br>EC Index-No.: 607-754-00-5<br>REACH-no: 01-2119969442-31 | 4.6 – 9.2     | Eye Irrit. 2, H319<br>Skin Sens. 1B, H317<br>Aquatic Chronic 3, H412          |

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| Name                                                         | Product identifier                                                                                               | %           | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                          |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Phenylethyl alcohol                                          | CAS-No.: 60-12-8<br>EC-No.: 200-456-2<br>REACH-no: 01-2119963921-31                                              | 3.95 – 7.9  | Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2, H319                                                                                          |
| Ethylene brassylate                                          | CAS-No.: 105-95-3<br>EC-No.: 203-347-8<br>REACH-no: 01-2119976314-33                                             | 3.5 – 7     | Aquatic Chronic 2, H411                                                                                                                  |
| Benzyl acetate                                               | CAS-No.: 140-11-4<br>EC-No.: 205-399-7<br>REACH-no: 01-2119638272-42                                             | 3 – 6       | Aquatic Chronic 3, H412                                                                                                                  |
| Iso E Super                                                  | CAS-No.: 54464-57-2<br>EC-No.: 259-174-3<br>REACH-no: 01-2119489989-04                                           | 2.5 – 5     | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 1, H410                                                                     |
| 2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol                  | CAS-No.: 63500-71-0<br>EC-No.: 405-040-6<br>EC Index-No.: 603-101-00-3<br>REACH-no: 01-000015458-64              | 1.21 – 2.42 | Eye Irrit. 2, H319                                                                                                                       |
| Oranger Crystals                                             | CAS-No.: 93-08-3<br>EC-No.: 202-216-2                                                                            | 1 – 2       | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Aquatic Chronic 2, H411                                        |
| Geraniol                                                     | CAS-No.: 106-24-1<br>EC-No.: 203-377-1<br>EC Index-No.: 603-241-00-5<br>REACH-no: 01-2119552430-49               | 0.9 – 1.8   | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317                                                                            |
| Cyclamal                                                     | CAS-No.: 103-95-7<br>EC-No.: 203-161-7<br>REACH-no: 01-2119970582-32                                             | 0.75 – 1.5  | Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Aquatic Chronic 2, H411                                                                    |
| d-Limonene                                                   | 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 | 0.66 – 1.32 | 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 1, H410 |
| Nerol                                                        | CAS-No.: 106-25-2<br>EC-No.: 203-378-7                                                                           | 0.6 – 1.2   | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317                                                                          |
| 2-Methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol | CAS-No.: 28219-60-5<br>EC-No.: 248-907-2                                                                         | 0.6 – 1.2   | Eye Irrit. 2, H319<br>Aquatic Acute 1, H400<br>Skin Irrit. 2, H315                                                                       |
| Phenylethyl acetate                                          | CAS-No.: 103-45-7<br>EC-No.: 203-113-5<br>REACH-no: 01-2119976340-38                                             | 0.6 – 1.2   | Eye Dam. 1, H318                                                                                                                         |

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| Name                  | Product identifier                                                                          | %            | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                                          |
|-----------------------|---------------------------------------------------------------------------------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Linalyl acetate       | CAS-No.: 115-95-7<br>EC-No.: 204-116-4<br>REACH-no: 01-2119454789-19                        | 0.57 – 1.14  | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317                                                                          |
| Aldehyde C-14         | CAS-No.: 104-67-6<br>EC-No.: 203-225-4<br>REACH-no: 01-2119959333-34                        | 0.5 – 1      | Aquatic Chronic 3, H412                                                                                                                  |
| Undecavertol          | CAS-No.: 81782-77-6<br>EC-No.: 279-815-0                                                    | 0.35 – 0.7   | Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411                                                                                         |
| Heliotropine crystals | CAS-No.: 120-57-0<br>EC-No.: 204-409-7<br>REACH-no: 01-2119983608-21                        | 0.25 – 0.5   | Skin Sens. 1B, H317                                                                                                                      |
| Ylang ylang oil III   | CAS-No.: 8006-81-3<br>EC-No.: 281-092-1, 616-893-0                                          | 0.2 – 0.4    | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412                         |
| Methyl isoeugenol     | CAS-No.: 93-16-3<br>EC-No.: 202-224-6<br>REACH-no: 01-2120223689-47                         | 0.175 – 0.35 | Skin Sens. 1B, H317                                                                                                                      |
| Cedramber             | CAS-No.: 19870-74-7<br>EC-No.: 243-384-7                                                    | 0.1 – 0.2    | Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410<br>Skin Sens. 1B, H317                                                                  |
| Cedarwood oil, Texas  | CAS-No.: 68990-83-0<br>EC-No.: 294-461-7;614-888-8                                          | 0.1 – 0.2    | Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                                                                    |
| Orange oil            | CAS-No.: 8008-57-9<br>EC-No.: 232-433-8; 600-006-9; 616-926-9<br>REACH-no: 01-2119493353-35 | 0.1 – 0.2    | 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 |
| delta-Damascone       | CAS-No.: 57378-68-4<br>EC-No.: 260-709-8                                                    | 0.075 – 0.15 | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 1, H410                                        |
| Dipentene             | CAS-No.: 138-86-3<br>EC-No.: 205-341-0<br>EC Index-No.: 601-029-00-7                        | 0.07 – 0.14  | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410                      |
| Lime oil distilled    | CAS-No.: 8008-26-2<br>EC-No.: 290-010-3<br>REACH-no: 01-2120138646-51                       | 0.07 – 0.14  | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Repr. 2, H361<br>Asp. Tox. 1, H304<br>Aquatic Chronic 1, H410         |

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| Name                                                                 | Product identifier                                                                                 | %            | Classification according to Regulation (EC) No. 1272/2008 [CLP]                                                 |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------|-----------------------------------------------------------------------------------------------------------------|
| Triplal (Vertocitral)                                                | CAS-No.: 68039-49-6<br>EC-No.: 268-264-1                                                           | 0.055 – 0.11 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412                      |
| Geranyl acetate                                                      | CAS-No.: 105-87-3<br>EC-No.: 203-341-5<br>REACH-no: 01-2119973480-35                               | 0.055 – 0.11 | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412                                            |
| Cistus oil (Labdanum oil)                                            | CAS-No.: 8016-26-0<br>EC-No.: 639-656-3                                                            | 0.05 – 0.1   | Flam. Liq. 3, H226<br>Asp. Tox. 1, H304<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412 |
| Ethyl acetate<br>substance with a Community workplace exposure limit | CAS-No.: 141-78-6<br>EC-No.: 205-500-4<br>EC Index-No.: 607-022-00-5<br>REACH-no: 01-2119475103-46 | 0 – 0.02     | Flam. Liq. 1, H224<br>Eye Irrit. 2, H319<br>STOT SE 3, H336                                                     |

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 cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately. |
| 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 | : Irritation. May cause an allergic skin reaction. |
| Symptoms/effects after eye contact  | : Serious damage to eyes.                          |

### 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. |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|

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### 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. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray.  
Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Contaminated work clothing should not be allowed out of the workplace.

#### 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.

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

##### Belgium - Occupational Exposure Limits

|               |                      |
|---------------|----------------------|
| OEL TWA       | 62 mg/m <sup>3</sup> |
| OEL TWA [ppm] | 10 ppm               |

##### Denmark - Occupational Exposure Limits

|             |                      |
|-------------|----------------------|
| OEL TWA [1] | 61 mg/m <sup>3</sup> |
|-------------|----------------------|

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| Benzyl acetate (140-11-4)                         |                                                                                                                       |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| OEL TWA [2]                                       | 10 ppm                                                                                                                |
| Ireland - Occupational Exposure Limits            |                                                                                                                       |
| OEL TWA [2]                                       | 10 ppm                                                                                                                |
| OEL STEL [ppm]                                    | 30 ppm (calculated)                                                                                                   |
| Latvia - Occupational Exposure Limits             |                                                                                                                       |
| OEL TWA                                           | 5 mg/m <sup>3</sup>                                                                                                   |
| Lithuania - Occupational Exposure Limits          |                                                                                                                       |
| IPRV (OEL TWA)                                    | 5 mg/m <sup>3</sup>                                                                                                   |
| Portugal - Occupational Exposure Limits           |                                                                                                                       |
| OEL TWA [ppm]                                     | 10 ppm                                                                                                                |
| OEL chemical category                             | A4 - Not Classifiable as a Human Carcinogen                                                                           |
| Romania - Occupational Exposure Limits            |                                                                                                                       |
| 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                                                                                                                |
| Spain - Occupational Exposure Limits              |                                                                                                                       |
| VLA-ED (OEL TWA) [1]                              | 62 mg/m <sup>3</sup>                                                                                                  |
| VLA-ED (OEL TWA) [2]                              | 10 ppm                                                                                                                |
| USA - ACGIH - Occupational Exposure Limits        |                                                                                                                       |
| ACGIH OEL TWA [ppm]                               | 10 ppm                                                                                                                |
| ACGIH chemical category                           | Not Classifiable as a Human Carcinogen                                                                                |
| d-Limonene (5989-27-5)                            |                                                                                                                       |
| Finland - Occupational Exposure Limits            |                                                                                                                       |
| 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                                                                                                                |
| Germany - Occupational Exposure Limits (TRGS 900) |                                                                                                                       |
| 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                                                                                     |
| Slovenia - Occupational Exposure Limits           |                                                                                                                       |
| 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                                                                                                                |

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| d-Limonene (5989-27-5)                     |                                                       |
|--------------------------------------------|-------------------------------------------------------|
| OEL chemical category                      | Potential for cutaneous absorption                    |
| Spain - Occupational Exposure Limits       |                                                       |
| 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 |
| Norway - Occupational Exposure Limits      |                                                       |
| 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                                  |
| Switzerland - Occupational Exposure Limits |                                                       |
| 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                                            |
| Dipentene (138-86-3)                       |                                                       |
| Estonia - Occupational Exposure Limits     |                                                       |
| 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                                                |
| Lithuania - Occupational Exposure Limits   |                                                       |
| 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                                                |
| OEL chemical category                      | Sensitizer                                            |
| Sweden - Occupational Exposure Limits      |                                                       |
| 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                                            |
| Norway - Occupational Exposure Limits      |                                                       |
| 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)              |



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| Dipentene (138-86-3)                               |                             |
|----------------------------------------------------|-----------------------------|
| Korttidsverdi (OEL STEL) [ppm]                     | 37.5 ppm (value calculated) |
| OEL chemical category                              | Allergenic substance        |
| Ethyl acetate (141-78-6)                           |                             |
| EU - Indicative Occupational Exposure Limit (IOEL) |                             |
| IOEL TWA                                           | 734 mg/m <sup>3</sup>       |
| IOEL TWA [ppm]                                     | 200 ppm                     |
| IOEL STEL                                          | 1468 mg/m <sup>3</sup>      |
| IOEL STEL [ppm]                                    | 400 ppm                     |
| Austria - Occupational Exposure Limits             |                             |
| MAK (OEL TWA)                                      | 734 mg/m <sup>3</sup>       |
| MAK (OEL TWA) [ppm]                                | 200 ppm                     |
| MAK (OEL STEL)                                     | 1468 mg/m <sup>3</sup>      |
| MAK (OEL STEL) [ppm]                               | 400 ppm                     |
| Belgium - Occupational Exposure Limits             |                             |
| OEL TWA                                            | 734 mg/m <sup>3</sup>       |
| OEL TWA [ppm]                                      | 200 ppm                     |
| OEL STEL                                           | 1468 mg/m <sup>3</sup>      |
| OEL STEL [ppm]                                     | 400 ppm                     |
| Bulgaria - Occupational Exposure Limits            |                             |
| OEL TWA                                            | 734 mg/m <sup>3</sup>       |
| OEL TWA [ppm]                                      | 200 ppm                     |
| OEL STEL                                           | 1468 mg/m <sup>3</sup>      |
| OEL STEL [ppm]                                     | 400 ppm                     |
| Croatia - Occupational Exposure Limits             |                             |
| GVI (OEL TWA) [1]                                  | 734 mg/m <sup>3</sup>       |
| GVI (OEL TWA) [2]                                  | 200 ppm                     |
| KGVI (OEL STEL)                                    | 1468 mg/m <sup>3</sup>      |
| KGVI (OEL STEL) [ppm]                              | 400 ppm                     |
| Cyprus - Occupational Exposure Limits              |                             |
| OEL TWA                                            | 734 mg/m <sup>3</sup>       |
| OEL TWA [ppm]                                      | 200 ppm                     |
| OEL STEL                                           | 1468 mg/m <sup>3</sup>      |
| OEL STEL [ppm]                                     | 400 ppm                     |
| Czech Republic - Occupational Exposure Limits      |                             |
| PEL (OEL TWA)                                      | 700 mg/m <sup>3</sup>       |
| Denmark - Occupational Exposure Limits             |                             |
| OEL TWA [1]                                        | 540 mg/m <sup>3</sup>       |
| OEL TWA [2]                                        | 150 ppm                     |

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| Ethyl acetate (141-78-6)                          |                                                                                                                        |
|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Estonia - Occupational Exposure Limits            |                                                                                                                        |
| OEL TWA                                           | 500 mg/m <sup>3</sup>                                                                                                  |
| OEL TWA [ppm]                                     | 150 ppm                                                                                                                |
| OEL STEL                                          | 1100 mg/m <sup>3</sup>                                                                                                 |
| OEL STEL [ppm]                                    | 300 ppm                                                                                                                |
| Finland - Occupational Exposure Limits            |                                                                                                                        |
| HTP (OEL TWA) [1]                                 | 730 mg/m <sup>3</sup>                                                                                                  |
| HTP (OEL TWA) [2]                                 | 200 ppm                                                                                                                |
| HTP (OEL STEL)                                    | 1470 mg/m <sup>3</sup>                                                                                                 |
| HTP (OEL STEL) [ppm]                              | 400 ppm                                                                                                                |
| France - Occupational Exposure Limits             |                                                                                                                        |
| VME (OEL TWA)                                     | 1400 mg/m <sup>3</sup>                                                                                                 |
| VME (OEL TWA) [ppm]                               | 400 ppm                                                                                                                |
| Germany - Occupational Exposure Limits (TRGS 900) |                                                                                                                        |
| AGW (OEL TWA) [1]                                 | 730 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]                                 | 200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)               |
| Gibraltar - Occupational Exposure Limits          |                                                                                                                        |
| OEL TWA                                           | 200 mg/m <sup>3</sup>                                                                                                  |
| OEL TWA [ppm]                                     | 734 ppm                                                                                                                |
| OEL STEL                                          | 400 mg/m <sup>3</sup>                                                                                                  |
| OEL STEL [ppm]                                    | 1468 ppm                                                                                                               |
| Greece - Occupational Exposure Limits             |                                                                                                                        |
| OEL TWA                                           | 734 mg/m <sup>3</sup>                                                                                                  |
| OEL TWA [ppm]                                     | 200 ppm                                                                                                                |
| OEL STEL                                          | 1468 mg/m <sup>3</sup>                                                                                                 |
| OEL STEL [ppm]                                    | 400 ppm                                                                                                                |
| Hungary - Occupational Exposure Limits            |                                                                                                                        |
| AK (OEL TWA)                                      | 734 mg/m <sup>3</sup>                                                                                                  |
| CK (OEL STEL)                                     | 1468 mg/m <sup>3</sup>                                                                                                 |
| OEL chemical category                             | Sensitizer                                                                                                             |
| Ireland - Occupational Exposure Limits            |                                                                                                                        |
| OEL TWA [1]                                       | 734 mg/m <sup>3</sup>                                                                                                  |
| OEL TWA [2]                                       | 200 ppm                                                                                                                |
| OEL STEL                                          | 1468 mg/m <sup>3</sup>                                                                                                 |
| OEL STEL [ppm]                                    | 400 ppm                                                                                                                |
| Italy - Occupational Exposure Limits              |                                                                                                                        |
| OEL TWA                                           | 734 mg/m <sup>3</sup>                                                                                                  |
| OEL TWA [ppm]                                     | 200 ppm                                                                                                                |

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| Ethyl acetate (141-78-6)                   |                                                 |
|--------------------------------------------|-------------------------------------------------|
| OEL STEL                                   | 1468 mg/m <sup>3</sup>                          |
| OEL STEL [ppm]                             | 400 ppm                                         |
| Latvia - Occupational Exposure Limits      |                                                 |
| OEL TWA                                    | 200 mg/m <sup>3</sup>                           |
| OEL TWA [ppm]                              | 54 ppm                                          |
| Lithuania - Occupational Exposure Limits   |                                                 |
| IPRV (OEL TWA)                             | 500 mg/m <sup>3</sup>                           |
| IPRV (OEL TWA) [ppm]                       | 150 ppm                                         |
| NRV (OEL C)                                | 1100 mg/m <sup>3</sup>                          |
| NRV (OEL C) [ppm]                          | 300 ppm                                         |
| Luxembourg - Occupational Exposure Limits  |                                                 |
| OEL STEL                                   | 1468 mg/m <sup>3</sup>                          |
| OEL STEL [ppm]                             | 400 ppm                                         |
| Malta - Occupational Exposure Limits       |                                                 |
| OEL TWA                                    | 734 mg/m <sup>3</sup>                           |
| OEL TWA [ppm]                              | 200 ppm                                         |
| OEL STEL                                   | 1468 mg/m <sup>3</sup>                          |
| OEL STEL [ppm]                             | 400 ppm                                         |
| Netherlands - Occupational Exposure Limits |                                                 |
| TGG-8u (OEL TWA)                           | 734 mg/m <sup>3</sup>                           |
| TGG-15min (OEL STEL)                       | 1468 mg/m <sup>3</sup>                          |
| Poland - Occupational Exposure Limits      |                                                 |
| NDS (OEL TWA)                              | 734 mg/m <sup>3</sup>                           |
| NDSch (OEL STEL)                           | 1468 mg/m <sup>3</sup>                          |
| Portugal - Occupational Exposure Limits    |                                                 |
| OEL TWA                                    | 734 mg/m <sup>3</sup> (indicative limit value)  |
| OEL TWA [ppm]                              | 200 ppm (indicative limit value)                |
| OEL STEL                                   | 1468 mg/m <sup>3</sup> (indicative limit value) |
| OEL STEL [ppm]                             | 400 ppm (indicative limit value)                |
| Romania - Occupational Exposure Limits     |                                                 |
| OEL TWA                                    | 400 mg/m <sup>3</sup>                           |
| OEL TWA [ppm]                              | 111 ppm                                         |
| OEL STEL                                   | 500 mg/m <sup>3</sup>                           |
| OEL STEL [ppm]                             | 139 ppm                                         |
| Slovakia - Occupational Exposure Limits    |                                                 |
| NPHV (OEL TWA) [1]                         | 734 mg/m <sup>3</sup>                           |
| NPHV (OEL TWA) [2]                         | 200 ppm                                         |
| NPHV (OEL C)                               | 1100 mg/m <sup>3</sup>                          |

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| Ethyl acetate (141-78-6)                      |                                                    |
|-----------------------------------------------|----------------------------------------------------|
| Slovenia - Occupational Exposure Limits       |                                                    |
| OEL TWA                                       | 734 mg/m <sup>3</sup>                              |
| OEL TWA [ppm]                                 | 200 ppm                                            |
| OEL STEL                                      | 1468 mg/m <sup>3</sup>                             |
| OEL STEL [ppm]                                | 400 ppm                                            |
| Spain - Occupational Exposure Limits          |                                                    |
| VLA-ED (OEL TWA) [1]                          | 734 mg/m <sup>3</sup>                              |
| VLA-ED (OEL TWA) [2]                          | 200 ppm                                            |
| VLA-EC (OEL STEL)                             | 1468 mg/m <sup>3</sup>                             |
| VLA-EC (OEL STEL) [ppm]                       | 400 ppm                                            |
| Sweden - Occupational Exposure Limits         |                                                    |
| NGV (OEL TWA)                                 | 550 mg/m <sup>3</sup>                              |
| NGV (OEL TWA) [ppm]                           | 150 ppm                                            |
| KTV (OEL STEL)                                | 1100 mg/m <sup>3</sup>                             |
| KTV (OEL STEL) [ppm]                          | 300 ppm                                            |
| United Kingdom - Occupational Exposure Limits |                                                    |
| WEL TWA (OEL TWA) [1]                         | 734 mg/m <sup>3</sup>                              |
| WEL TWA (OEL TWA) [2]                         | 200 ppm                                            |
| WEL STEL (OEL STEL)                           | 1468 mg/m <sup>3</sup>                             |
| WEL STEL (OEL STEL) [ppm]                     | 400 ppm                                            |
| Norway - Occupational Exposure Limits         |                                                    |
| Grenseverdi (OEL TWA) [1]                     | 734 mg/m <sup>3</sup>                              |
| Grenseverdi (OEL TWA) [2]                     | 200 ppm                                            |
| Korttidsverdi (OEL STEL)                      | 1468 mg/m <sup>3</sup> (value from the regulation) |
| Korttidsverdi (OEL STEL) [ppm]                | 400 ppm (value from the regulation)                |
| Switzerland - Occupational Exposure Limits    |                                                    |
| MAK (OEL TWA) [1]                             | 730 mg/m <sup>3</sup>                              |
| MAK (OEL TWA) [2]                             | 200 ppm                                            |
| KZGW (OEL STEL)                               | 1460 mg/m <sup>3</sup>                             |
| KZGW (OEL STEL) [ppm]                         | 400 ppm                                            |
| USA - ACGIH - Occupational Exposure Limits    |                                                    |
| ACGIH OEL TWA [ppm]                           | 400 ppm                                            |

### 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                                 | : No data available             |
| pH                                              | : No data available             |
| Relative evaporation rate (butylacetate=1)      | : No data available             |
| Melting point                                   | : Not applicable                |
| Freezing point                                  | : No data available             |
| Boiling point                                   | : No data available             |
| Flash point                                     | : 93 °C (closed cup) ASTM D7094 |
| Auto-ignition temperature                       | : No data available             |
| Decomposition temperature                       | : No data available             |
| Flammability (solid, gas)                       | : No data available             |
| Vapour pressure                                 | : No data available             |
| Relative vapour density at 20 °C                | : No data available             |
| Relative density                                | : ≈ 1.05                        |
| Solubility                                      | : No data available             |
| Partition coefficient n-octanol/water (Log Pow) | : No data available             |
| Viscosity, kinematic                            | : No data available             |
| Viscosity, dynamic                              | : No data available             |
| Explosive properties                            | : No data available             |
| Oxidising properties                            | : No data available             |

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Explosive limits : No data available

### 9.2. Other information

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 toxicological effects

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

| Aloha O'Ahu #EU49095F                          |                           |
|------------------------------------------------|---------------------------|
| ATE CLP (oral)                                 | 1948.942 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     |
| Linalool (78-70-6)                             |                           |
| LD50 oral                                      | 2790 mg/kg bodyweight     |
| 2-Hydroxybenzoic acid, benzyl ester (118-58-1) |                           |
| LD50 oral rat                                  | 2227 mg/kg                |
| LD50 oral                                      | 2200 mg/kg bodyweight     |
| LD50 dermal rabbit                             | > 5000 mg/kg              |
| Phenylethyl alcohol (60-12-8)                  |                           |
| LD50 oral rat                                  | 1609 mg/kg                |

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| Phenylethyl alcohol (60-12-8)                            |                       |
|----------------------------------------------------------|-----------------------|
| LD50 oral                                                | 1610 mg/kg bodyweight |
| LD50 dermal rabbit                                       | 2535 mg/kg            |
| LD50 dermal                                              | 2500 mg/kg bodyweight |
| LC50 Inhalation - Rat                                    | > 4.63 mg/l/4h        |
| Ethylene brassylate (105-95-3)                           |                       |
| LD50 oral rat                                            | > 5000 mg/kg          |
| LD50 dermal rabbit                                       | > 5000 mg/kg          |
| Benzyl acetate (140-11-4)                                |                       |
| LD50 oral rat                                            | 2490 mg/kg            |
| LD50 oral                                                | 2490 mg/kg bodyweight |
| LD50 dermal rabbit                                       | > 5000 mg/kg          |
| Geraniol (106-24-1)                                      |                       |
| LD50 oral rat                                            | 3600 mg/kg            |
| LD50 oral                                                | 3600 mg/kg bodyweight |
| LD50 dermal rabbit                                       | > 5 g/kg              |
| Nerol (106-25-2)                                         |                       |
| LD50 oral rat                                            | 4500 mg/kg            |
| LD50 oral                                                | 4500 mg/kg bodyweight |
| LD50 dermal rabbit                                       | > 5 g/kg              |
| 2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol (63500-71-0) |                       |
| LD50 dermal rabbit                                       | > 2000 mg/kg          |
| Oranger Crystals (93-08-3)                               |                       |
| LD50 oral                                                | 2500 mg/kg bodyweight |
| LD50 dermal rat                                          | > 2000 mg/kg          |
| Cyclamal (103-95-7)                                      |                       |
| LD50 oral rat                                            | 3810 mg/kg            |
| LD50 oral                                                | 3810 mg/kg bodyweight |
| LD50 dermal rat                                          | > 5000 mg/kg          |
| d-Limonene (5989-27-5)                                   |                       |
| LD50 oral rat                                            | 4400 mg/kg            |
| LD50 dermal rabbit                                       | > 5 g/kg              |
| Phenylethyl acetate (103-45-7)                           |                       |
| LD50 oral rat                                            | 3670 mg/kg            |
| LD50 oral                                                | 2500 mg/kg bodyweight |
| LD50 dermal rabbit                                       | 6210 mg/kg            |
| Linalyl acetate (115-95-7)                               |                       |
| LD50 oral rat                                            | 14550 mg/kg           |

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|                                              |                       |
|----------------------------------------------|-----------------------|
| <b>Linalyl acetate (115-95-7)</b>            |                       |
| LD50 dermal rabbit                           | > 5000 mg/kg          |
| <b>Aldehyde C-14 (104-67-6)</b>              |                       |
| LD50 oral rat                                | 18500 mg/kg           |
| LD50 dermal rat                              | > 2000 mg/kg          |
| <b>Heliotropine crystals (120-57-0)</b>      |                       |
| LD50 oral rat                                | 2700 mg/kg            |
| LD50 oral                                    | 2700 mg/kg bodyweight |
| LD50 dermal rat                              | > 5000 mg/kg          |
| <b>Ylang ylang oil III (8006-81-3)</b>       |                       |
| LD50 oral rat                                | > 5 g/kg              |
| <b>Methyl isoeugenol (93-16-3)</b>           |                       |
| LD50 oral rat                                | 2500 mg/kg            |
| LD50 oral                                    | 2500 mg/kg bodyweight |
| <b>Orange oil (8008-57-9)</b>                |                       |
| LD50 oral rat                                | 4400 mg/kg            |
| LD50 dermal rabbit                           | > 5000 mg/kg          |
| <b>delta-Damascone (57378-68-4)</b>          |                       |
| LD50 oral                                    | 1400 mg/kg bodyweight |
| <b>Dipentene (138-86-3)</b>                  |                       |
| LD50 oral rat                                | 5300 mg/kg            |
| <b>Lime oil distilled (8008-26-2)</b>        |                       |
| LD50 oral rat                                | 5600 mg/kg            |
| LD50 dermal rabbit                           | > 5000 mg/kg          |
| <b>Triplal (Vertocitral) (68039-49-6)</b>    |                       |
| LD50 oral                                    | 3900 mg/kg bodyweight |
| <b>Geranyl acetate (105-87-3)</b>            |                       |
| LD50 oral rat                                | 6330 mg/kg            |
| <b>Cistus oil (Labdanum oil) (8016-26-0)</b> |                       |
| LD50 oral rat                                | 8980 mg/kg            |
| LD50 dermal rat                              | > 89.8 mg/kg          |
| <b>Ethyl acetate (141-78-6)</b>              |                       |
| LD50 oral rat                                | 5620 mg/kg            |
| LD50 dermal rabbit                           | > 18000 mg/kg         |
| LC50 Inhalation - Rat [ppm]                  | 4000 ppm/4h           |

|                                   |                                        |
|-----------------------------------|----------------------------------------|
| Skin corrosion/irritation         | : Causes skin irritation.              |
| Serious eye damage/irritation     | : Causes serious eye damage.           |
| Respiratory or skin sensitisation | : May cause an allergic skin reaction. |
| Germ cell mutagenicity            | : Not classified                       |



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Carcinogenicity : Not classified

### 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

### Ethyl acetate (141-78-6)

|                      |                                    |
|----------------------|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |
|----------------------|------------------------------------|

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

Hazardous to the aquatic environment, short-term (acute) : Not classified

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 |
|----------------|------------|

### Linalool (78-70-6)

|                      |                                              |
|----------------------|----------------------------------------------|
| EC50 96h - Algae [1] | 88.3 mg/l (Species: Desmodesmus subspicatus) |
|----------------------|----------------------------------------------|

### 2-Hydroxybenzoic acid, benzyl ester (118-58-1)

|                 |                                                                      |
|-----------------|----------------------------------------------------------------------|
| LC50 - Fish [1] | 1.03 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static]) |
|-----------------|----------------------------------------------------------------------|

### Phenylethyl alcohol (60-12-8)

|                      |                                                            |
|----------------------|------------------------------------------------------------|
| EC50 - Crustacea [1] | 287.17 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
|----------------------|------------------------------------------------------------|

|                      |                                             |
|----------------------|---------------------------------------------|
| EC50 72h - Algae [1] | 490 mg/l (Species: Desmodesmus subspicatus) |
|----------------------|---------------------------------------------|

### Geraniol (106-24-1)

|                 |                                                               |
|-----------------|---------------------------------------------------------------|
| LC50 - Fish [1] | 22 mg/l (Exposure time: 96 h - Species: Danio rerio [static]) |
|-----------------|---------------------------------------------------------------|

### Nerol (106-25-2)

|                 |                                                                      |
|-----------------|----------------------------------------------------------------------|
| LC50 - Fish [1] | 20.3 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static]) |
|-----------------|----------------------------------------------------------------------|

### d-Limonene (5989-27-5)

|                 |                                                                                        |
|-----------------|----------------------------------------------------------------------------------------|
| 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) |
|-----------------|--------------------------------------------------------------|

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

|                 |                                                                         |
|-----------------|-------------------------------------------------------------------------|
| LC50 - Fish [1] | 11 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through]) |
|-----------------|-------------------------------------------------------------------------|

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

|                 |               |
|-----------------|---------------|
| LC50 - Fish [1] | 569 mg/l 96 h |
|-----------------|---------------|

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

|                                    |                |
|------------------------------------|----------------|
| EC50 - Crustacea [1]               | 5.85 mg/l 48 h |
| EC50 - Other aquatic organisms [1] | 5.94 mg/l 72 h |

### Heliotropine crystals (120-57-0)

|                 |                                                                    |
|-----------------|--------------------------------------------------------------------|
| LC50 - Fish [1] | 2.5 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [static]) |
|-----------------|--------------------------------------------------------------------|

### Ethyl acetate (141-78-6)

|                      |                                                                                    |
|----------------------|------------------------------------------------------------------------------------|
| LC50 - Fish [1]      | 220 – 250 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| LC50 - Fish [2]      | 484 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through])       |
| EC50 - Crustacea [1] | 560 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])                   |

## 12.2. Persistence and degradability

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

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

### Cedarwood oil, Texas (68990-83-0)

|                               |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |
|-------------------------------|------------------|

## 12.3. Bioaccumulative potential

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

|                                                 |                  |
|-------------------------------------------------|------------------|
| Partition coefficient n-octanol/water (Log Pow) | 4                |
| Bioaccumulative potential                       | Not established. |

### Phenylethyl alcohol (60-12-8)

|                                                 |                 |
|-------------------------------------------------|-----------------|
| Partition coefficient n-octanol/water (Log Pow) | 1.38 (at 25 °C) |
|-------------------------------------------------|-----------------|

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

|                                                 |      |
|-------------------------------------------------|------|
| Partition coefficient n-octanol/water (Log Pow) | 1.96 |
|-------------------------------------------------|------|

### Cedarwood oil, Texas (68990-83-0)

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

### Ethyl acetate (141-78-6)

|                                                 |     |
|-------------------------------------------------|-----|
| BCF - Fish [1]                                  | 30  |
| Partition coefficient n-octanol/water (Log Pow) | 0.6 |

## 12.4. Mobility in soil

No additional information available

## 12.5. Results of PBT and vPvB assessment

No additional information available

## 12.6. Other adverse effects

No additional information available

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

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

### SECTION 14: Transport information

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

#### 14.1 UN number

UN-No. (ADR) : UN 3082  
UN-No. (IMDG) : UN 3082  
UN-No. (IATA) : UN 3082  
UN-No. (ADN) : UN 3082  
UN-No. (RID) : UN 3082

#### 14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s.  
Proper Shipping Name (ADN) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Proper Shipping Name (RID) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
Transport document description (ADR) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISO E SUPER), 9, III, (-)  
Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISO E SUPER), 9, III, MARINE POLLUTANT  
Transport document description (IATA) : UN 3082 Environmentally hazardous substance, liquid, n.o.s. (ISO E SUPER), 9, III  
Transport document description (ADN) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISO E SUPER), 9, III  
Transport document description (RID) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISO E SUPER), 9, III

#### 14.3. Transport hazard class(es)

##### ADR

Transport hazard class(es) (ADR) : 9  
Danger labels (ADR) : 9



##### IMDG

Transport hazard class(es) (IMDG) : 9  
Danger labels (IMDG) : 9



##### IATA

Transport hazard class(es) (IATA) : 9  
Danger labels (IATA) : 9



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### ADN

Transport hazard class(es) (ADN) : 9  
Danger labels (ADN) :



### RID

Transport hazard class(es) (RID) : 9  
Danger labels (RID) :



### 14.4. Packing group

Packing group (ADR) : III  
Packing group (IMDG) : III  
Packing group (IATA) : III  
Packing group (ADN) : III  
Packing group (RID) : III

### 14.5. Environmental hazards

Dangerous for the environment : Yes  
Marine pollutant : Yes  
Other information : 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  
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

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|                                   |             |
|-----------------------------------|-------------|
| Special packing provisions (IMDG) | : PP1       |
| IBC packing instructions (IMDG)   | : IBC03     |
| Tank instructions (IMDG)          | : T4        |
| Tank special provisions (IMDG)    | : TP1, 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, A215 |
| 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

|                                                                         |                           |
|-------------------------------------------------------------------------|---------------------------|
| Classification code (RID)                                               | : M6                      |
| Special provisions (RID)                                                | : 274, 335, 375, 601      |
| Limited quantities (RID)                                                | : 5L                      |
| Excepted quantities (RID)                                               | : E1                      |
| Packing instructions (RID)                                              | : P001, IBC03, LP01, R001 |
| Special packing provisions (RID)                                        | : PP1                     |
| Mixed packing provisions (RID)                                          | : MP19                    |
| Portable tank and bulk container instructions (RID)                     | : T4                      |
| Portable tank and bulk container special provisions (RID)               | : TP1, TP29               |
| Tank codes for RID tanks (RID)                                          | : LGBV                    |
| Transport category (RID)                                                | : 3                       |
| Special provisions for carriage – Packages (RID)                        | : W12                     |
| Special provisions for carriage - Loading, unloading and handling (RID) | : CW13, CW31              |
| Colis express (express parcels) (RID)                                   | : CE8                     |
| Hazard identification number (RID)                                      | : 90                      |

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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

##### EU restriction list (REACH Annex XVII)

| Reference code | Applicable on                                                                                        |
|----------------|------------------------------------------------------------------------------------------------------|
| 3(a)           | d-Limonene ; Orange oil ; Dipentene ; Lime oil distilled ; Cistus oil (Labdanum oil) ; Ethyl acetate |

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| EU restriction list (REACH Annex XVII) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reference code                         | Applicable on                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 3(b)                                   | Aloha O'Ahu #EU49095F ; Benzyl benzoate ; Linalool ; 2-Hydroxybenzoic acid, benzyl ester ; Phenylethyl alcohol ; Iso E Super ; Geraniol ; Nerol ; 2-Isobutyl-4-methyltetrahydro-2H-pyran-4-ol ; Cyclamal ; d-Limonene ; 2-Methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol ; Phenylethyl acetate ; Linalyl acetate ; Ylang ylang oil III ; Methyl isoeugenol ; Cedramber ; Cedarwood oil, Texas ; Orange oil ; delta-Damascone ; Dipentene ; Lime oil distilled ; Triplal (Vertocitral) ; Geranyl acetate ; Cistus oil (Labdanum oil) ; Ethyl acetate |
| 3(c)                                   | Aloha O'Ahu #EU49095F ; Benzyl benzoate ; 2-Hydroxybenzoic acid, benzyl ester ; Ethylene brassylate ; Benzyl acetate ; Iso E Super ; Cyclamal ; d-Limonene ; 2-Methyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol ; Aldehyde C-14 ; Undecavertol ; Ylang ylang oil III ; Cedramber ; Cedarwood oil, Texas ; Orange oil ; delta-Damascone ; Dipentene ; Lime oil distilled ; Triplal (Vertocitral) ; Geranyl acetate ; Cistus oil (Labdanum oil)                                                                                                         |
| 40.                                    | d-Limonene ; Orange oil ; Dipentene ; Lime oil distilled ; Cistus oil (Labdanum oil) ; Ethyl acetate                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to REGULATION (EU) No 1005/2009 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 September 2009 on substances that deplete the ozone layer.

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Contains substance subject to Regulation (EC) 273/2004 of the European Parliament and of the Council of 11 February 2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances.

| Name      | CN designation | CAS-No.  | CN code    | Category   | Threshold | Annex   |
|-----------|----------------|----------|------------|------------|-----------|---------|
| Piperonal |                | 120-57-0 | 2932 93 00 | Category 1 |           | Annex I |

### 15.1.2. National regulations

| France                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Occupational diseases |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Code                  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| RG 84                 | Conditions caused by liquid organic solvents for professional use: saturated or unsaturated aliphatic or cyclic liquid hydrocarbons and mixtures thereof; liquid halogenated hydrocarbons; nitrated derivatives of aliphatic hydrocarbons; alcohols; glycols, glycol ethers; ketones; aldehydes; aliphatic and cyclic ethers, including tetrahydrofuran; esters; dimethylformamide and dimethylacetamide; acetonitrile and propionitrile; pyridine; dimethylsulfone and dimethylsulfoxide |

### 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)

### Netherlands

SZW-lijst van kankerverwekkende stoffen : Cedarwood oil, Texas ,Orange oil ,Triplal (Vertocitral) are listed

SZW-lijst van mutagene stoffen : Orange oil ,Triplal (Vertocitral) 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

Class for fire hazard : Class III-1

Store unit : 50 liter

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Classification remarks : Flammable according to the Danish Ministry of Justice; 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

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

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

|                     |                                                                        |
|---------------------|------------------------------------------------------------------------|
| 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 Dam. 1          | Serious eye damage/eye irritation, Category 1                          |
| Eye Irrit. 2        | Serious eye damage/eye irritation, Category 2                          |
| Flam. Liq. 1        | Flammable liquids, Category 1                                          |
| Flam. Liq. 3        | Flammable liquids, Category 3                                          |
| H224                | Extremely flammable liquid and vapour.                                 |
| H226                | Flammable liquid and vapour.                                           |
| H302                | Harmful if swallowed.                                                  |
| H304                | May be fatal if swallowed and enters airways.                          |
| H315                | Causes skin irritation.                                                |
| H317                | May cause an allergic skin reaction.                                   |
| H318                | Causes serious eye damage.                                             |
| H319                | Causes serious eye irritation.                                         |
| H336                | May cause drowsiness or dizziness.                                     |
| 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                                        |
| STOT SE 3           | Specific target organ toxicity — Single exposure, Category 3, Narcosis |

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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.