

# LAVENDER AND VANILLA CC-16435

## Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878  
Issue date: 10/1/2024



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

#### 1.1. Product identifier

|                 |                                 |
|-----------------|---------------------------------|
| Product form    | : Mixture                       |
| Trade name      | : LAVENDER AND VANILLA CC-16435 |
| UFI             | : M3J9-24TE-E00R-4XA0           |
| Product code    | : CC-16435                      |
| 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 | : For professional use only<br>Industrial |
| Use of the substance/mixture     | : Perfumes, fragrances                    |
| Function or use category         | : Odour agents                            |

##### 1.2.2. Uses advised against

No additional information available

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

Candle Craft  
Weiherwiese 10  
65510 Idstein - Germany  
T 49-6126-9363 -0  
info@candlecraft.de - www.candlecraft.de

#### 1.4. Emergency telephone number

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

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

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

|   |      |
|---|------|
| Acute toxicity (oral), Category 4                                 | H302 |
| Skin corrosion/irritation, Category 2                             | H315 |
| Serious eye damage/eye irritation, Category 2                     | H319 |
| Skin sensitisation, Category 1                                    | H317 |
| Hazardous to the aquatic environment – Acute Hazard, Category 1   | H400 |
| Hazardous to the aquatic environment – Chronic Hazard, Category 1 | H410 |

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

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

Toxic to aquatic life with long lasting effects. Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. Very 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)

: Warning

Contains

: benzyl benzoate; ACETYL HEXAMETHYL TETRALIN; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone; Hexyl salicylate; Mayol; 3-(2,2-dimethyl-3-hydroxypropyl)toluene; (alt.): 2,2-dimethyl-3-(3-methylphenyl)propanol; Cyclamal; Hydroxy; COUMARIN; Lavandin abrialis oil; Thyme oil, white; Coriander oil; Linalyl acetate; Cornmint oil (redist); Clary sage oil; Linalool; trans-Anethole; Geranium oil Egyptian ; Cashmeran; (R)-p-mentha-1,8-diene; d-limonene; Floralozone; Cardamom oil; Artemesia vulgaris oil (Armoise); Cinnamic aldehyde

Hazard statements (CLP)

: H302 - Harmful if swallowed.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.  
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Extra phrases

: For professional users only.

### 2.3. Other hazards

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

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

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                | Product identifier   | %             | Classification according to Regulation (EC) No. 1272/2008 [CLP]               |
|---------------------|--|---------------|---|
| Ethylene brassylate | CAS-No.: 105-95-3<br>EC-No.: 203-347-8<br>REACH-no: 01-2119976314-33                               | 9.3 – 18.6292 | Aquatic Chronic 2, H411   |
| 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 | 9 – 17.9993   | Acute Tox. 4 (Oral), H302<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411 |

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| Name  | Product identifier  | %                    | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|---|---|----------------------|---|
| ACETYL HEXAMETHYL TETRALIN  | CAS-No.: 21145-77-7<br>EC-No.: 244-240-6  | 7.4 – 14.8994        | Acute Tox. 4 (Oral), H302<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone                    | CAS-No.: 54464-57-2<br>EC-No.: 259-174-3<br>REACH-no: 01-2119489989-04                              | 7 – 13.9994          | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 1, H410  |
| tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans)                     | CAS-No.: 63500-71-0<br>EC-No.: 405-040-6<br>EC Index-No.: 603-101-00-3<br>REACH-no: 01-000015458-64 | 1.65 – 6.5497        | Eye Irrit. 2, H319  |
| Dihydromyrcenol   | CAS-No.: 18479-58-8<br>EC-No.: 242-362-4<br>REACH-no: 01-2119457274-37                              | 2.3 – 4.6498         | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319   |
| 3-(2,2-dimethyl-3-hydroxypropyl)toluene; (alt.): 2,2-dimethyl-3-(3-methylphenyl)propanol    | CAS-No.: 103694-68-4<br>EC-No.: 403-140-4<br>EC Index-No.: 603-138-00-5                             | 0.023 – 4.6498       | Skin Sens. 1, H317<br>Aquatic Chronic 3, H412   |
| ETHYLENE DODECANEDIOATE   | CAS-No.: 54982-83-1<br>EC-No.: 259-423-6  | 0.0023 – 4.6498      | Aquatic Acute 1, H400<br>Aquatic Chronic 3, H412  |
| COUMARIN  | CAS-No.: 91-64-5<br>EC-No.: 202-086-7<br>REACH-no: 01-2119943756-26                                 | 2.20001 – 4.39981    | Acute Tox. 4 (Oral), H302<br>Skin Sens. 1B, H317  |
| Carbitol<br>substance with national workplace exposure limit(s)<br>(AT, DE, EE, SE, SI, CH) | CAS-No.: 111-90-0<br>EC-No.: 203-919-7<br>REACH-no: 01-2119475105-42                                | 1.66359 – 3.36320034 | Not classified  |
| Vanillin  | CAS-No.: 121-33-5<br>EC-No.: 204-465-2<br>REACH-no: 01-2119516040-60                                | 1.2 – 2.3499         | Eye Irrit. 2, H319  |
| Methyl ionone (mixture of isomers)  | CAS-No.: 1335-46-2<br>EC-No.: 215-635-0   | 0.9 – 1.7499         | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Aquatic Chronic 2, H411  |
| Lavandin abrialis oil   | CAS-No.: 8022-15-9<br>EC-No.: 617-009-6   | 0.7 – 1.4999         | Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412  |
| Thyme oil, white  | CAS-No.: 8007-46-3<br>EC-No.: 284-535-7;616-910-1   | 0.5 – 1              | Flam. Liq. 3, H226<br>Acute Tox. 4 (Oral), H302<br>Skin Corr. 1, H314<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |
| Coriander oil   | CAS-No.: 8008-52-4<br>EC-No.: 288-922-1   | 0.5 – 0.95           | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411   |

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| Name  | Product identifier  | %                    | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|---|---|----------------------|---|
| Linalyl acetate   | CAS-No.: 115-95-7<br>EC-No.: 204-116-4<br>REACH-no: 01-2119454789-19                                | 0.4 – 0.8087         | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317   |
| Cornmint oil (redist)   | CAS-No.: 68917-18-0<br>EC-No.: 294-486-3  | 0.4 – 0.7459         | Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 2, H411                   |
| Hexyl salicylate  | CAS-No.: 6259-76-3<br>EC-No.: 228-408-6   | 0.033 – 0.65497      | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410   |
| Clary sage oil  | CAS-No.: 8016-63-5<br>EC-No.: 616-984-5   | 0.3 – 0.6526         | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412  |
| Linalool  | CAS-No.: 78-70-6<br>EC-No.: 201-134-4<br>EC Index-No.: 603-235-00-2<br>REACH-no: 01-2119474016-42   | 0.3 – 0.5541         | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317  |
| Sandela   | CAS-No.: 66068-84-6<br>EC-No.: 266-100-3  | 0.3 – 0.55           | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411   |
| Mayol   | CAS-No.: 13828-37-0<br>EC-No.: 237-539-8  | 0.0263 – 0.530477    | Skin Sens. 1B, H317<br>Skin Irrit. 2, H315  |
| trans-Anethole  | CAS-No.: 4180-23-8<br>EC-No.: 224-052-0   | 0.2 – 0.45           | Skin Sens. 1B, H317   |
| Geranium oil Egyptian   | CAS-No.: 8000-46-2<br>EC-No.: 290-140-0<br>REACH-no: 01-2120769423-50                               | 0.2 – 0.45           | Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Skin Sens. 1, H317<br>Aquatic Chronic 3, H412  |
| Hydroxy   | CAS-No.: 107-75-5<br>EC-No.: 203-518-7<br>REACH-no: 01-2119973482-31                                | 0.17802 – 0.35989452 | Eye Irrit. 2, H319<br>Skin Sens. 1B, H317   |
| Cashmeran   | CAS-No.: 33704-61-9<br>EC-No.: 251-649-3<br>REACH-no: 01-2119977131-40                              | 0.2 – 0.3            | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1B, H317<br>STOT RE 2, H373<br>Aquatic Chronic 2, H411                            |
| (R)-p-mentha-1,8-diene; d-limonene substance with national workplace exposure limit(s) (DE, ES, FI, SI, NO, CH) | CAS-No.: 5989-27-5<br>EC-No.: 205-341-0<br>EC Index-No.: 601-096-00-2<br>REACH-no: 01-2119493353-35 | 0.105 – 0.2586       | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 3, H412 |

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| Name  | Product identifier  | %                 | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|---|---|-------------------|--|
| Cyclamal  | CAS-No.: 103-95-7<br>EC-No.: 203-161-7<br>REACH-no: 01-2119970582-32                                | 0.1023 – 0.246498 | Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Aquatic Chronic 2, H411  |
| Floralozone   | CAS-No.: 67634-15-5<br>EC-No.: 266-819-2<br>REACH-no: 01-2120758796-34                              | 0.1 – 0.2         | Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317   |
| Cardamom oil  | CAS-No.: 8000-66-6<br>EC-No.: 288-922-1   | 0.1 – 0.2         | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411                                  |
| Artemesia vulgaris oil (Armoise)  | CAS-No.: 68991-20-8<br>EC-No.: 283-874-8  | 0.1 – 0.15        | Flam. Liq. 3, H226<br>Acute Tox. 4 (Oral), H302<br>Skin Sens. 1, H317<br>STOT SE 2, H371<br>Asp. Tox. 1, H304<br>Aquatic Chronic 3, H412<br>Eye Irrit. 2, H319         |
| Rose oxide  | CAS-No.: 16409-43-1<br>EC-No.: 240-457-5  | 0.1 – 0.1         | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Repr. 2, H361   |
| .alpha.-Pinene<br>substance with national workplace exposure limit(s)<br>(BE, EE, ES, LT, PT, SE, NO)   | CAS-No.: 80-56-8<br>EC-No.: 201-291-9   | 0.01 – 0.0604     | Flam. Liq. 3, H226<br>Acute Tox. 4 (Oral), H302<br>Skin Irrit. 2, H315<br>Skin Sens. 1B, H317<br>Asp. Tox. 1, H304<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410 |
| .beta.-Pinene<br>substance with national workplace exposure limit(s)<br>(BE, EE, ES, LT, PT, SE, NO)  | CAS-No.: 127-91-3<br>EC-No.: 204-872-5  | 0.01 – 0.051      | Flam. Liq. 3, H226   |
| citral<br>substance with national workplace exposure limit(s)<br>(BE, ES, IE, PL, PT)   | CAS-No.: 5392-40-5<br>EC-No.: 226-394-6<br>EC Index-No.: 605-019-00-3<br>REACH-no: 01-2119462829-23 | 0 – 0.05          | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317  |
| isobutyl acetate<br>substance with national workplace exposure limit(s)<br>(AT, BE, BG, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IT, LT, LU, LV, MT, NL, PL, PT, RO, SE, SI, SK, NO, CH, TR) | CAS-No.: 110-19-0<br>EC-No.: 203-745-1<br>EC Index-No.: 607-026-00-7                                | 0 – 0.0466        | Flam. Liq. 2, H225<br>STOT SE 3, H336  |
| dipentene; limonene<br>substance with national workplace exposure limit(s)<br>(EE, LT, SE, NO)  | CAS-No.: 138-86-3<br>EC-No.: 205-341-0  | 0 – 0.0256        | Flam. Liq. 3, H226<br>Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Acute 1, H400<br>Aquatic Chronic 1, H410  |

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| Name  | Product identifier   | %              | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|---|--|----------------|---|
| Cinnamic aldehyde   | CAS-No.: 104-55-2<br>EC-No.: 203-213-9<br>EC Index-No.: 606-155-00-6<br>REACH-no: 01-2119935242-45 | 0.005 – 0.0125 | Acute Tox. 4 (Dermal), H312<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1A, H317<br>Aquatic Chronic 3, H412  |
| p-Cymene<br>substance with national workplace exposure limit(s)<br>(DK, EE, LT, LV, SE) | CAS-No.: 99-87-6<br>EC-No.: 202-796-7<br>EC Index-No.: 601-094-00-1                                | 0.001 – 0.01   | Flam. Liq. 3, H226<br>Acute Tox. 3 (Inhalation), H331<br>Acute Tox. 3 (Inhalation:dust,mist), H331<br>Repr. 2, H361<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411 |

### Specific concentration limits:

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

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : If you feel unwell, seek medical advice (show the label where possible). Call a poison center or a doctor if you feel unwell.  |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing. Allow the victim to rest.   |
| First-aid measures after skin contact | : If skin irritation occurs: Get medical advice/attention. Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.  |
| First-aid measures after eye contact  | : Obtain medical attention if pain, blinking or redness persists. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion    | : Obtain emergency medical attention. Rinse mouth. Call a poison center or a doctor if you feel unwell.  |

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

|                                     |  |
|-------------------------------------|--|
| Symptoms/effects                    | : Not expected to present a significant hazard under anticipated conditions of normal use. |
| Symptoms/effects after skin contact | : Irritation. May cause an allergic skin reaction.   |
| Symptoms/effects after eye contact  | : Eye irritation.  |

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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

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

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

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### 5.3. Advice for firefighters

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

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

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

#### 6.1.2. For emergency responders

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

### 6.2. Environmental precautions

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

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

|                         |  |
|-------------------------|--|
| For containment         | : Collect spillage.  |
| Methods for cleaning up | : Take up liquid spill into absorbent material. Store away from other materials. |
| Other information       | : Dispose of materials or solid residues at an authorized site.                  |

### 6.4. Reference to other sections

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

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                               |   |
|-------------------------------|---|
| Precautions for safe handling | : Ensure good ventilation of the work station. Provide good ventilation in process area to prevent formation of vapour. Avoid contact with skin and eyes. Wear personal protective equipment. Avoid breathing dust/fume/gas/mist/vapours/spray. |
| Hygiene measures              | : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.                             |

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

|                            |   |
|----------------------------|---|
| Storage conditions         | : Keep container closed when not in use. Store in a well-ventilated place. Keep cool. |
| Incompatible products      | : Strong bases. Strong acids.   |
| Incompatible materials     | : Sources of ignition. Direct sunlight.   |
| Storage temperature        | : 25 °C   |
| Storage area               | : Store in a well-ventilated place. Store away from heat.                             |
| Special rules on packaging | : Store in a closed container.  |
| Packaging materials        | : Do not store in corrodable metal.   |

#### Switzerland

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

### 7.3. Specific end use(s)

No additional information available

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

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

| <b>Carbitol (111-90-0)</b>                               |   |
|--|---|
| <b>Austria - Occupational Exposure Limits</b>            |   |
| MAK (OEL TWA)  | 35 mg/m <sup>3</sup>  |
|  | 6 ppm   |
| MAK (OEL STEL)   | 140 mg/m <sup>3</sup>   |
|  | 24 ppm  |
| <b>Estonia - Occupational Exposure Limits</b>            |   |
| OEL TWA  | 50.1 mg/m <sup>3</sup>  |
|  | 10 ppm  |
| OEL chemical category                                    | Skin notation   |
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b> |   |
| AGW (OEL TWA)  | 35 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
|  | 6 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)                |
| <b>Slovenia - Occupational Exposure Limits</b>           |   |
| OEL TWA  | 35 mg/m <sup>3</sup>  |
|  | 6 ppm   |
| OEL STEL   | 70 mg/m <sup>3</sup>  |
|  | 12 ppm  |
| <b>Sweden - Occupational Exposure Limits</b>             |   |
| NGV (OEL TWA)  | 80 mg/m <sup>3</sup>  |
|  | 15 ppm  |
| KGV (OEL STEL)   | 170 mg/m <sup>3</sup>   |
|  | 30 ppm  |
| OEL chemical category                                    | Skin notation   |
| <b>Switzerland - Occupational Exposure Limits</b>        |   |
| MAK (OEL TWA)  | 50 mg/m <sup>3</sup> (aerosol, inhalable dust, vapour)  |
| KZGW (OEL STEL)  | 100 mg/m <sup>3</sup> (aerosol, inhalable dust, vapour)   |
| <b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b>    |   |
| <b>Finland - Occupational Exposure Limits</b>            |   |
| HTP (OEL TWA)  | 140 mg/m <sup>3</sup>   |
|  | 25 ppm  |
| HTP (OEL STEL)   | 280 mg/m <sup>3</sup>   |
|  | 50 ppm  |



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## Safety Data Sheet

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| <b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b>    |   |
|--|---|
| <b>Germany - Occupational Exposure Limits (TRGS 900)</b> |   |
| AGW (OEL TWA)  | 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)<br>5 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)   |
| Chemical category  | Skin notation, Skin sensitization   |
| <b>Slovenia - Occupational Exposure Limits</b>           |   |
| OEL TWA  | 28 mg/m <sup>3</sup><br>5 ppm   |
| OEL STEL   | 112 mg/m <sup>3</sup><br>20 ppm   |
| OEL chemical category                                    | Potential for cutaneous absorption  |
| <b>Spain - Occupational Exposure Limits</b>              |   |
| VLA-ED (OEL TWA)   | 168 mg/m <sup>3</sup><br>30 ppm   |
| OEL chemical category                                    | Sensitizer, skin - potential for cutaneous absorption   |
| <b>Norway - Occupational Exposure Limits</b>             |   |
| Grenseverdi (OEL TWA)                                    | 140 mg/m <sup>3</sup><br>25 ppm   |
| Korttidsverdi (OEL STEL)                                 | 175 mg/m <sup>3</sup> (value calculated)<br>37.5 ppm (value calculated)   |
| OEL chemical category                                    | Allergenic substance  |
| <b>Switzerland - Occupational Exposure Limits</b>        |   |
| MAK (OEL TWA)  | 40 mg/m <sup>3</sup><br>7 ppm   |
| KZGW (OEL STEL)  | 80 mg/m <sup>3</sup><br>14 ppm  |
| OEL chemical category                                    | Sensitizer  |
| <b>.alpha.-Pinene (80-56-8)</b>                          |   |
| <b>Belgium - Occupational Exposure Limits</b>            |   |
| OEL TWA  | 20 ppm  |
| <b>Estonia - Occupational Exposure Limits</b>            |   |
| OEL TWA  | 150 mg/m <sup>3</sup> (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)<br>25 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
| OEL STEL   | 300 mg/m <sup>3</sup> (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)<br>50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |

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| <b>.alpha.-Pinene (80-56-8)</b>                   |   |
|---|---|
| <b>Lithuania - Occupational Exposure Limits</b>   |   |
| IPRV (OEL TWA)                                    | 150 mg/m <sup>3</sup>   |
|   | 25 ppm  |
| TPRV (OEL STEL)                                   | 300 mg/m <sup>3</sup>   |
|   | 50 ppm  |
| <b>Portugal - Occupational Exposure Limits</b>    |   |
| OEL TWA   | 20 ppm (Turpentine and selected Monoterpenes)   |
| OEL chemical category                             | Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen  |
| <b>Spain - Occupational Exposure Limits</b>       |   |
| VLA-ED (OEL TWA)                                  | 113 mg/m <sup>3</sup>   |
|   | 20 ppm  |
| OEL chemical category                             | Sensitizer  |
| <b>Sweden - Occupational Exposure Limits</b>      |   |
| NGV (OEL TWA)                                     | 150 mg/m <sup>3</sup>   |
|   | 25 ppm  |
| KGV (OEL STEL)                                    | 300 mg/m <sup>3</sup>   |
|   | 50 ppm  |
| OEL chemical category                             | Sensitizer  |
| <b>Norway - Occupational Exposure Limits</b>      |   |
| Grenseverdi (OEL TWA)                             | 140 mg/m <sup>3</sup>   |
|   | 25 ppm  |
| Korttidsverdi (OEL STEL)                          | 175 mg/m <sup>3</sup> (value calculated)  |
|   | 37.5 ppm (value calculated)   |
| OEL chemical category                             | Skin notation   |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |   |
| ACGIH OEL TWA                                     | 20 ppm (Turpentine and selected Monoterpenes)   |
| ACGIH chemical category                           | Not Classifiable as a Human Carcinogen, dermal sensitizer   |
| <b>.beta.-Pinene (127-91-3)</b>                   |   |
| <b>Belgium - Occupational Exposure Limits</b>     |   |
| OEL TWA   | 20 ppm  |
| <b>Estonia - Occupational Exposure Limits</b>     |   |
| OEL TWA   | 150 mg/m <sup>3</sup> (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
|   | 25 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)                |
| OEL STEL  | 300 mg/m <sup>3</sup> (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
|   | 50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)                |

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| <b>.beta.-Pinene (127-91-3)</b>                   |  |
|---|--|
| <b>Lithuania - Occupational Exposure Limits</b>   |  |
| IPRV (OEL TWA)                                    | 150 mg/m <sup>3</sup>  |
|   | 25 ppm   |
| TPRV (OEL STEL)                                   | 300 mg/m <sup>3</sup>  |
|   | 50 ppm   |
| <b>Portugal - Occupational Exposure Limits</b>    |  |
| OEL TWA   | 20 ppm (Turpentine and selected Monoterpenes)                  |
| OEL chemical category                             | Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen |
| <b>Spain - Occupational Exposure Limits</b>       |  |
| VLA-ED (OEL TWA)                                  | 113 mg/m <sup>3</sup>  |
|   | 20 ppm   |
| OEL chemical category                             | Sensitizer   |
| <b>Sweden - Occupational Exposure Limits</b>      |  |
| NGV (OEL TWA)                                     | 150 mg/m <sup>3</sup>  |
|   | 25 ppm   |
| KGV (OEL STEL)                                    | 300 mg/m <sup>3</sup>  |
|   | 50 ppm   |
| OEL chemical category                             | Sensitizer   |
| <b>Norway - Occupational Exposure Limits</b>      |  |
| Grenseverdi (OEL TWA)                             | 140 mg/m <sup>3</sup>  |
|   | 25 ppm   |
| Korttidsverdi (OEL STEL)                          | 175 mg/m <sup>3</sup> (value calculated)                       |
|   | 37.5 ppm (value calculated)                                    |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |  |
| ACGIH OEL TWA                                     | 20 ppm (Turpentine and selected Monoterpenes)                  |
| ACGIH chemical category                           | Not Classifiable as a Human Carcinogen, dermal sensitizer      |
| <b>p-Cymene (99-87-6)</b>                         |  |
| <b>Denmark - Occupational Exposure Limits</b>     |  |
| OEL TWA   | 135 mg/m <sup>3</sup> (Methylisopropylbenzenes)                |
|   | 25 ppm (Methylisopropylbenzenes)                               |
| OEL STEL  | 270 mg/m <sup>3</sup> (Methylisopropylbenzenes)                |
|   | 50 ppm (Methylisopropylbenzenes)                               |
| <b>Estonia - Occupational Exposure Limits</b>     |  |
| OEL TWA   | 140 mg/m <sup>3</sup>  |
|   | 25 ppm   |
| OEL STEL  | 190 mg/m <sup>3</sup>  |
|   | 35 ppm   |
| <b>Latvia - Occupational Exposure Limits</b>      |  |
| OEL TWA   | 10 mg/m <sup>3</sup> (Cymene (2, 3, 4-isomers mixture))        |

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| <b>p-Cymene (99-87-6)</b>                         |   |
|---|---|
| <b>Lithuania - Occupational Exposure Limits</b>   |   |
| IPRV (OEL TWA)                                    | 140 mg/m <sup>3</sup>   |
|   | 25 ppm  |
| TPRV (OEL STEL)                                   | 190 mg/m <sup>3</sup>   |
|   | 35 ppm  |
| <b>Sweden - Occupational Exposure Limits</b>      |   |
| NGV (OEL TWA)                                     | 140 mg/m <sup>3</sup>   |
|   | 25 ppm  |
| KGV (OEL STEL)                                    | 190 mg/m <sup>3</sup>   |
|   | 35 ppm  |
| <b>citral (5392-40-5)</b>                         |   |
| <b>Belgium - Occupational Exposure Limits</b>     |   |
| OEL TWA   | 32 mg/m <sup>3</sup> (vapor and aerosol)  |
|   | 5 ppm (vapor and aerosol)   |
| OEL chemical category                             | Skin  |
| <b>Ireland - Occupational Exposure Limits</b>     |   |
| OEL TWA   | 5 ppm   |
| OEL STEL  | 15 ppm (calculated)   |
| <b>Poland - Occupational Exposure Limits</b>      |   |
| NDS (OEL TWA)                                     | 27 mg/m <sup>3</sup>  |
| NDSch (OEL STEL)                                  | 54 mg/m <sup>3</sup>  |
| <b>Portugal - Occupational Exposure Limits</b>    |   |
| OEL TWA   | 5 ppm (inhalable fraction; vapor)   |
| OEL chemical category                             | Sensitizer dermal, A4 - Not Classifiable as a Human Carcinogen, skin - potential for cutaneous exposure   |
| <b>Spain - Occupational Exposure Limits</b>       |   |
| VLA-ED (OEL TWA)                                  | 5 ppm (inhalable fraction and vapor)  |
| OEL chemical category                             | Sensitizer, skin - potential for cutaneous absorption   |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |   |
| ACGIH OEL TWA                                     | 5 ppm (inhalable fraction and vapor)  |
| ACGIH chemical category                           | Not Classifiable as a Human Carcinogen, Skin - potential significant contribution to overall exposure by the cutaneous route, dermal sensitizer |
| <b>isobutyl acetate (110-19-0)</b>                |   |
| <b>Austria - Occupational Exposure Limits</b>     |   |
| MAK (OEL TWA)                                     | 241 mg/m <sup>3</sup> (Butyl acetates)  |
|   | 50 ppm (Butyl acetates)   |
| MAK (OEL STEL)                                    | 480 mg/m <sup>3</sup> (Butyl acetate)   |
|   | 100 ppm (Butyl acetate)   |

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| isobutyl acetate (110-19-0)                          |  |
|--|--|
| <b>Belgium - Occupational Exposure Limits</b>        |  |
| OEL TWA  | 238 mg/m <sup>3</sup>                              |
|  | 50 ppm   |
| OEL STEL   | 712 mg/m <sup>3</sup>                              |
|  | 150 ppm  |
| <b>Bulgaria - Occupational Exposure Limits</b>       |  |
| OEL TWA  | 241 mg/m <sup>3</sup>                              |
|  | 50 ppm   |
| OEL STEL   | 723 mg/m <sup>3</sup>                              |
|  | 150 ppm  |
| <b>Croatia - Occupational Exposure Limits</b>        |  |
| GVI (OEL TWA)  | 241 mg/m <sup>3</sup>                              |
|  | 50 ppm   |
| KGVI (OEL STEL)                                      | 723 mg/m <sup>3</sup>                              |
|  | 150 ppm  |
| <b>Cyprus - Occupational Exposure Limits</b>         |  |
| OEL TWA  | 241 mg/m <sup>3</sup>                              |
|  | 50 ppm   |
| OEL STEL   | 723 mg/m <sup>3</sup>                              |
|  | 150 ppm  |
| <b>Czech Republic - Occupational Exposure Limits</b> |  |
| PEL (OEL TWA)  | 241 mg/m <sup>3</sup>                              |
| <b>Denmark - Occupational Exposure Limits</b>        |  |
| OEL TWA  | 241 mg/m <sup>3</sup> (Butyl acetate, all isomers) |
|  | 50 ppm (Butyl acetate, all isomers)                |
| OEL STEL   | 723 mg/m <sup>3</sup>                              |
|  | 150 ppm  |
| <b>Estonia - Occupational Exposure Limits</b>        |  |
| OEL TWA  | 241 mg/m <sup>3</sup>                              |
|  | 50 ppm   |
| OEL STEL   | 723 mg/m <sup>3</sup>                              |
|  | 150 ppm  |
| <b>Finland - Occupational Exposure Limits</b>        |  |
| HTP (OEL TWA)  | 240 mg/m <sup>3</sup> (Butyl acetate)              |
|  | 50 ppm (Butyl acetate)                             |
| HTP (OEL STEL)                                       | 725 mg/m <sup>3</sup> (Butyl acetate)              |
|  | 150 ppm (Butyl acetate)                            |
| <b>France - Occupational Exposure Limits</b>         |  |
| VME (OEL TWA)  | 241 mg/m <sup>3</sup> (restrictive limit)          |

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| isobutyl acetate (110-19-0)                       |  |
|---|--|
|   | 50 ppm (restrictive limit)   |
| VLE (OEL C/STEL)                                  | 723 mg/m <sup>3</sup> (restrictive limit)  |
|   | 150 ppm (restrictive limit)  |
| Germany - Occupational Exposure Limits (TRGS 900) |  |
| AGW (OEL TWA)                                     | 300 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
|   | 62 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)                |
| Greece - Occupational Exposure Limits             |  |
| OEL TWA   | 241 mg/m <sup>3</sup>  |
|   | 50 ppm   |
| OEL STEL  | 723 mg/m <sup>3</sup>  |
|   | 150 ppm  |
| Hungary - Occupational Exposure Limits            |  |
| AK (OEL TWA)                                      | 241 mg/m <sup>3</sup>  |
| CK (OEL STEL)                                     | 723 mg/m <sup>3</sup>  |
| OEL chemical category                             | Sensitizer   |
| Ireland - Occupational Exposure Limits            |  |
| OEL TWA   | 241 mg/m <sup>3</sup>  |
|   | 50 ppm   |
| OEL STEL  | 723 mg/m <sup>3</sup> (calculated)   |
|   | 150 ppm (calculated)   |
| Italy - Occupational Exposure Limits              |  |
| OEL TWA   | 241 mg/m <sup>3</sup>  |
|   | 50 ppm   |
| OEL STEL  | 723 mg/m <sup>3</sup>  |
|   | 150 ppm  |
| Latvia - Occupational Exposure Limits             |  |
| OEL TWA   | 241 mg/m <sup>3</sup>  |
|   | 50 ppm   |
| Lithuania - Occupational Exposure Limits          |  |
| IPRV (OEL TWA)                                    | 241 mg/m <sup>3</sup>  |
|   | 50 ppm   |
| TPRV (OEL STEL)                                   | 723 mg/m <sup>3</sup>  |
|   | 150 ppm  |
| Luxembourg - Occupational Exposure Limits         |  |
| OEL TWA   | 241 mg/m <sup>3</sup>  |
|   | 50 ppm   |
| OEL STEL  | 723 mg/m <sup>3</sup>  |
|   | 150 ppm  |

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| isobutyl acetate (110-19-0)                       |  |
|---|--|
| <b>Malta - Occupational Exposure Limits</b>       |  |
| OEL TWA   | 241 mg/m <sup>3</sup>                          |
|   | 50 ppm   |
| OEL STEL  | 723 mg/m <sup>3</sup>                          |
|   | 150 ppm  |
| <b>Netherlands - Occupational Exposure Limits</b> |  |
| TGG-8u (OEL TWA)                                  | 241 mg/m <sup>3</sup>                          |
|   | 50 ppm   |
| TGG-15min (OEL STEL)                              | 723 mg/m <sup>3</sup>                          |
|   | 150 ppm  |
| <b>Poland - Occupational Exposure Limits</b>      |  |
| NDS (OEL TWA)                                     | 240 mg/m <sup>3</sup>                          |
| NDSch (OEL STEL)                                  | 720 mg/m <sup>3</sup>                          |
| <b>Portugal - Occupational Exposure Limits</b>    |  |
| OEL TWA   | 241 mg/m <sup>3</sup> (indicative limit value) |
|   | 50 ppm (indicative limit value)                |
| OEL STEL  | 723 mg/m <sup>3</sup> (indicative limit value) |
|   | 150 ppm (indicative limit value)               |
| <b>Romania - Occupational Exposure Limits</b>     |  |
| OEL TWA   | 241 mg/m <sup>3</sup>                          |
|   | 50 ppm   |
| OEL STEL  | 723 mg/m <sup>3</sup>                          |
|   | 150 ppm  |
| <b>Slovakia - Occupational Exposure Limits</b>    |  |
| NPHV (OEL TWA)                                    | 241 mg/m <sup>3</sup>                          |
|   | 50 ppm   |
| NPHV (OEL C)                                      | 723 mg/m <sup>3</sup>                          |
| <b>Slovenia - Occupational Exposure Limits</b>    |  |
| OEL TWA   | 241 mg/m <sup>3</sup>                          |
|   | 50 ppm   |
| OEL STEL  | 723 mg/m <sup>3</sup>                          |
|   | 150 ppm  |
| <b>Spain - Occupational Exposure Limits</b>       |  |
| VLA-ED (OEL TWA)                                  | 241 mg/m <sup>3</sup>                          |
|   | 50 ppm   |
| VLA-EC (OEL STEL)                                 | 723 mg/m <sup>3</sup>                          |
|   | 150 ppm  |
| <b>Sweden - Occupational Exposure Limits</b>      |  |
| NGV (OEL TWA)                                     | 241 mg/m <sup>3</sup> (Butyl acetates)         |

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| <b>isobutyl acetate (110-19-0)</b>                   |   |
|--|---|
|  | 50 ppm (Butyl acetates)   |
| KGV (OEL STEL)                                       | 723 mg/m <sup>3</sup> (Butyl acetates)  |
|  | 150 ppm (Butyl acetates)  |
| <b>United Kingdom - Occupational Exposure Limits</b> |   |
| WEL TWA (OEL TWA)                                    | 724 mg/m <sup>3</sup>   |
|  | 150 ppm   |
| WEL STEL (OEL STEL)                                  | 903 mg/m <sup>3</sup>   |
|  | 187 ppm   |
| <b>Norway - Occupational Exposure Limits</b>         |   |
| Grenseverdi (OEL TWA)                                | 241 mg/m <sup>3</sup>   |
|  | 50 ppm  |
| Korttidsverdi (OEL STEL)                             | 723 mg/m <sup>3</sup> (value from the regulation)   |
|  | 150 ppm (value from the regulation)   |
| <b>Switzerland - Occupational Exposure Limits</b>    |   |
| MAK (OEL TWA)  | 240 mg/m <sup>3</sup>   |
|  | 50 ppm  |
| KZGW (OEL STEL)                                      | 720 mg/m <sup>3</sup>   |
|  | 150 ppm   |
| <b>USA - ACGIH - Occupational Exposure Limits</b>    |   |
| ACGIH OEL TWA  | 50 ppm (Butyl acetates, all isomers)  |
| ACGIH OEL STEL                                       | 150 ppm (Butyl acetates, all isomers)   |
| <b>dipentene; limonene (138-86-3)</b>                |   |
| <b>Estonia - Occupational Exposure Limits</b>        |   |
| OEL TWA  | 150 mg/m <sup>3</sup> (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
|  | 25 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)                |
| OEL STEL   | 300 mg/m <sup>3</sup> (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect) |
|  | 50 ppm (Turpentine produced from Nordic conifers has an irritating effect on the skin, monoterpenes, with the exception of 3-Carene, have a lesser effect)                |
| <b>Lithuania - Occupational Exposure Limits</b>      |   |
| IPRV (OEL TWA)                                       | 150 mg/m <sup>3</sup>   |
|  | 25 ppm  |
| TPRV (OEL STEL)                                      | 300 mg/m <sup>3</sup>   |
|  | 50 ppm  |
| OEL chemical category                                | Sensitizer coniferous resin sensitizes the skin   |
| <b>Sweden - Occupational Exposure Limits</b>         |   |
| NGV (OEL TWA)  | 150 mg/m <sup>3</sup>   |
|  | 25 ppm  |



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| dipentene; limonene (138-86-3)        |  |
|---------------------------------------|--|
| KGV (OEL STEL)                        | 300 mg/m <sup>3</sup>                    |
|                                       | 50 ppm                                   |
| OEL chemical category                 | Sensitizer                               |
| Norway - Occupational Exposure Limits |  |
| Grenseverdi (OEL TWA)                 | 140 mg/m <sup>3</sup>                    |
|                                       | 25 ppm                                   |
| Korttidsverdi (OEL STEL)              | 175 mg/m <sup>3</sup> (value calculated) |
|                                       | 37.5 ppm (value calculated)              |
| OEL chemical category                 | Allergenic substance                     |

### 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

## 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:

Avoid all unnecessary exposure.

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



#### 8.2.2.1. Eye and face protection

##### Eye protection:

Chemical goggles or safety glasses. Safety glasses

#### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

##### Hand protection:

Wear protective gloves.

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

Wear appropriate mask

#### 8.2.2.4. Thermal hazards

No additional information available

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### 8.2.3. Environmental exposure controls

#### Environmental exposure controls:

Avoid release to the environment.

#### Other information:

Do not eat, drink or smoke during use.

## SECTION 9: Physical and chemical properties

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

|   |  |
|---|--|
| Physical state                                  | : Liquid                               |
| Colour  | : Conforms to standard.                |
| Odour   | : characteristic. characteristic.      |
| Odour threshold                                 | : Not available                        |
| Melting point                                   | : Not applicable                       |
| Freezing point                                  | : Not available                        |
| Boiling point                                   | : Not available                        |
| Flammability                                    | : Not applicable                       |
| Lower explosion limit                           | : Not available                        |
| Upper explosion limit                           | : Not available                        |
| Flash point                                     | : > 93 °C                              |
| Auto-ignition temperature                       | : Not available                        |
| Decomposition temperature                       | : Not available                        |
| pH  | : Not available                        |
| Viscosity, kinematic                            | : Not available                        |
| Solubility                                      | : Not available                        |
| Partition coefficient n-octanol/water (Log Kow) | : Not available                        |
| Vapour pressure                                 | : 0.000640793 mm Hg (calculated value) |
| Vapour pressure at 50°C                         | : Not available                        |
| Density   | : Not available                        |
| Relative density                                | : 1.24                                 |
| Relative vapour density at 20°C                 | : Not available                        |
| Particle characteristics                        | : Not applicable                       |

### 9.2. Other information

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

No additional information available

#### 9.2.2. Other safety characteristics

VOC content : 8.49235794 % (calculated value)(CARB VOC) (%w/w)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

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

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

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### 10.6. Hazardous decomposition products

Carbon dioxide.

## SECTION 11: Toxicological information

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

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

| LAVENDER AND VANILLA CC-16435  |                                 |
|--|---------------------------------|
| ATE CLP (oral)   | 1371.037 mg/kg bodyweight       |
| Ethylene brassylate (105-95-3)   |                                 |
| LD50 oral rat  | > 5000 mg/kg (Source: ECHA)     |
| LD50 dermal rabbit   | > 5000 mg/kg (Source: ECHA)     |
| benzyl benzoate (120-51-4)   |                                 |
| LD50 oral rat  | > 2000 mg/kg (Source: ECHA_API) |
| LD50 oral  | 1160 mg/kg bodyweight           |
| LD50 dermal rabbit   | 4000 mg/kg (Source: NLM_CIP)    |
| ACETYL HEXAMETHYL TETRALIN (21145-77-7)  |                                 |
| LD50 oral rat  | 570 mg/kg (Source: NLM_CIP)     |
| LD50 oral  | 1000 mg/kg bodyweight           |
| LD50 dermal rabbit   | > 5 g/kg (Source: NLM_HSDB)     |
| tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) (63500-71-0)                   |                                 |
| LD50 dermal rabbit   | > 2000 mg/kg (Source: ECHA_API) |
| Hexyl salicylate (6259-76-3)   |                                 |
| LD50 oral rat  | > 5 g/kg (Source: ECHA)         |
| LD50 dermal rabbit   | > 5000 mg/kg (Source: ECHA_API) |
| Dihydromyrcenol (18479-58-8)   |                                 |
| LD50 oral rat  | 3600 mg/kg (Source: NLM_CIP)    |
| LD50 oral  | 3020 mg/kg                      |
| LD50 dermal rabbit   | > 5 g/kg (Source: CHEMVIEW)     |
| 3-(2,2-dimethyl-3-hydroxypropyl)toluene; (alt.): 2,2-dimethyl-3-(3-methylphenyl)propanol (103694-68-4) |                                 |
| LD50 oral  | 3440 mg/kg bodyweight           |
| LD50 dermal rabbit   | > 5 ml/kg (Source: ECHA_API)    |
| ETHYLENE DODECANEDIOATE (54982-83-1)   |                                 |
| LD50 oral  | 4500 mg/kg bodyweight           |
| Cyclamal (103-95-7)  |                                 |
| LD50 oral rat  | 3810 mg/kg (Source: NLM_CIP)    |
| LD50 oral  | 3810 mg/kg bodyweight           |
| LD50 dermal rat  | > 5000 mg/kg (Source: ECHA_API) |

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| <b>Carbitol (111-90-0)</b>                            |   |
|---|---|
| LD50 oral rat   | 10502 mg/kg (Source: OECD_SIDS)                               |
| LD50 dermal rabbit                                    | 9143 mg/kg (Source: OECD_SIDS)                                |
| LC50 Inhalation - Rat                                 | > 5240 mg/m <sup>3</sup> (Exposure time: 4 h Source: NLM_CIP) |
| <b>Hydroxy (107-75-5)</b>                             |   |
| LD50 oral rat   | > 6400 mg/kg (Source: ECHA)                                   |
| LD50 dermal rabbit                                    | > 2000 mg/kg (Source: ECHA_API)                               |
| <b>COUMARIN (91-64-5)</b>                             |   |
| LD50 oral rat   | > 5000 mg/kg (Source: JAPAN_GHS)                              |
| LD50 dermal rat                                       | 293 mg/kg (Source: ECHA_API)                                  |
| <b>Vanillin (121-33-5)</b>                            |   |
| LD50 dermal rabbit                                    | > 5010 mg/kg (Source: OECD_SIDS)                              |
| LD50 dermal   | 2600 mg/kg bodyweight   |
| <b>Methyl ionone (mixture of isomers) (1335-46-2)</b> |   |
| LD50 oral rat   | > 5000 mg/kg  |
| LD50 dermal rabbit                                    | > 5000 mg/kg (Source: CHEMVIEW)                               |
| LD50 dermal   | 2900 mg/kg bodyweight   |
| <b>Lavandin abrialis oil (8022-15-9)</b>              |   |
| LD50 oral rat   | > 5 g/kg (Source: NLM_CIP)                                    |
| <b>Thyme oil, white (8007-46-3)</b>                   |   |
| LD50 oral rat   | 2840 mg/kg (Source: NLM_CIP)                                  |
| LD50 oral   | 1800 mg/kg bodyweight   |
| <b>Coriander oil (8008-52-4)</b>                      |   |
| LD50 oral rat   | 4130 mg/kg (Source: NLM_CIP)                                  |
| <b>Linalyl acetate (115-95-7)</b>                     |   |
| LD50 oral rat   | 14550 mg/kg (Source: EPA_HPVS)                                |
| LD50 dermal rabbit                                    | > 5000 mg/kg (Source: ECHA)                                   |
| LC50 Inhalation - Rat                                 | > 18.94 mg/l (Exposure time: 8 h Source: ECHA)                |
| <b>Cornmint oil (redist) (68917-18-0)</b>             |   |
| LD50 oral rat   | 1240 mg/kg (Source: NZ_CCID)                                  |
| LD50 oral   | 1200 mg/kg bodyweight   |
| <b>Clary sage oil (8016-63-5)</b>                     |   |
| LD50 oral rat   | 5600 mg/kg (Source: NLM_CIP)                                  |
| <b>Linalool (78-70-6)</b>                             |   |
| LD50 oral   | 2790 mg/kg  |
| <b>Sandela (66068-84-6)</b>                           |   |
| LD50 dermal rat                                       | > 2000 mg/kg (Source: ECHA_API)                               |
| LC50 Inhalation - Rat                                 | > 5.27 mg/l/4h  |

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| <b>trans-Anethole (4180-23-8)</b>                     |  |
|---|--|
| LD50 oral rat   | 2090 mg/kg (Source: NLM_CIP)                   |
| LD50 dermal rabbit                                    | > 4900 mg/kg (Source: ECHA_API)                |
| LC50 Inhalation - Rat                                 | > 5.1 mg/l/4h                                  |
| <b>Geranium oil Egyptian (8000-46-2)</b>              |  |
| LD50 oral   | 4811 mg/kg bodyweight                          |
| LD50 dermal   | 2500 mg/kg bodyweight                          |
| <b>Cashmeran (33704-61-9)</b>                         |  |
| LD50 oral rat   | 2685 mg/kg (Source: ECHA_API)                  |
| LD50 oral   | 2900 mg/kg bodyweight                          |
| <b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b> |  |
| LD50 oral rat   | 4400 mg/kg (Source: CHEMVIEW)                  |
| LD50 dermal rabbit                                    | > 5 g/kg (Source: CHEMVIEW)                    |
| <b>.alpha.-Pinene (80-56-8)</b>                       |  |
| LD50 oral rat   | 3700 mg/kg (Source: NLM_CIP)                   |
| LD50 dermal rat                                       | > 5000 mg/kg (Source: CHEMVIEW)                |
| <b>.beta.-Pinene (127-91-3)</b>                       |  |
| LD50 oral rat   | > 5000 mg/kg (Source: EPA_HPVS)                |
| LD50 dermal rabbit                                    | > 5000 mg/kg (Source: CHEMVIEW)                |
| <b>p-Cymene (99-87-6)</b>                             |  |
| LD50 oral rat   | 4750 mg/kg (Source: NLM_CIP)                   |
| LD50 oral   | 4750 mg/kg bodyweight                          |
| LD50 dermal rabbit                                    | > 5000 mg/kg (Source: CHEMVIEW)                |
| LC50 Inhalation - Rat                                 | > 9.7 mg/l (Exposure time: 5 h Source: EU_CLH) |
| LC50 Inhalation - Rat (Vapours)                       | 9.7 mg/l/4h                                    |
| <b>Cardamom oil (8000-66-6)</b>                       |  |
| LD50 oral rat   | 5 g/kg (Source: NLM_CIP)                       |
| <b>Artemisia vulgaris oil (Armoise) (68991-20-8)</b>  |  |
| LD50 oral   | 747 mg/kg bodyweight                           |
| <b>Rose oxide (16409-43-1)</b>                        |  |
| LD50 oral rat   | 4300 mg/kg (Source: NLM_CIP)                   |
| LD50 oral   | 4300 mg/kg bodyweight                          |
| <b>Cinnamic aldehyde (104-55-2)</b>                   |  |
| LD50 oral rat   | 2220 mg/kg (Source: NLM_CIP)                   |
| LD50 oral   | 2220 mg/kg                                     |
| LD50 dermal rabbit                                    | 1260 mg/kg (Source: EPA_HPVS)                  |
| <b>citral (5392-40-5)</b>                             |  |
| LD50 oral rat   | 4960 mg/kg (Source: NLM_CIP)                   |

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|   |  |
|---|--|
| <b>citral (5392-40-5)</b>                             |  |
| LD50 dermal rabbit                                    | 2250 mg/kg (Source: NLM_CIP)                                       |
| <b>isobutyl acetate (110-19-0)</b>                    |  |
| LD50 oral rat   | 15400 mg/kg (Source: JAPAN_GHS)                                    |
| LD50 dermal rabbit                                    | > 17400 mg/kg (Source: NLM_CIP)                                    |
| <b>dipentene; limonene (138-86-3)</b>                 |  |
| LD50 oral rat   | 5300 mg/kg (Source: NLM_CIP)                                       |
| Skin corrosion/irritation                             | : Causes skin irritation.  |
| Serious eye damage/irritation                         | : Causes serious eye irritation.                                   |
| Respiratory or skin sensitisation                     | : May cause an allergic skin reaction.                             |
| Germ cell mutagenicity                                | : Not classified   |
| Carcinogenicity                                       | : Not classified   |
| <b>COUMARIN (91-64-5)</b>                             |  |
| IARC group  | 3 - Not classifiable   |
| <b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b> |  |
| IARC group  | 3 - Not classifiable   |
| Reproductive toxicity                                 | : Not classified   |
| STOT-single exposure                                  | : Not classified   |
| <b>Artemisia vulgaris oil (Armoise) (68991-20-8)</b>  |  |
| STOT-single exposure                                  | May cause damage to organs.  |
| <b>isobutyl acetate (110-19-0)</b>                    |  |
| STOT-single exposure                                  | May cause drowsiness or dizziness.                                 |
| STOT-repeated exposure                                | : Not classified   |
| <b>Cashmeran (33704-61-9)</b>                         |  |
| STOT-repeated exposure                                | May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard                                     | : Not classified   |
| <b>benzyl benzoate (120-51-4)</b>                     |  |
| Viscosity, kinematic                                  | 7.456 mm <sup>2</sup> /s   |
| <b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b> |  |
| Hydrocarbon   | Yes  |
| <b>.alpha.-Pinene (80-56-8)</b>                       |  |
| Hydrocarbon   | Yes  |
| <b>.beta.-Pinene (127-91-3)</b>                       |  |
| Hydrocarbon   | Yes  |
| <b>p-Cymene (99-87-6)</b>                             |  |
| Hydrocarbon   | Yes  |
| <b>dipentene; limonene (138-86-3)</b>                 |  |
| Hydrocarbon   | Yes  |

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### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

No additional information available

#### 11.2.2. Other information

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

## SECTION 12: Ecological information

### 12.1. Toxicity

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

Hazardous to the aquatic environment, short-term (acute) : Very toxic to aquatic life.

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

| <b>benzyl benzoate (120-51-4)</b>                     |  |
|---|--|
| LC50 - Fish [1]                                       | 2.32 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)                  |
| NOEC (chronic)  | 0.168 mg/l   |
| <b>ETHYLENE DODECANEDIOATE (54982-83-1)</b>           |  |
| LC50 - Fish [1]                                       | 0.88 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [flow-through] Source: ECHA)         |
| <b>Carbitol (111-90-0)</b>                            |  |
| LC50 - Fish [1]                                       | 10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static] Source: EPA)               |
| LC50 - Fish [2]                                       | 19100 – 23900 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through] Source: EPA) |
| EC50 - Crustacea [1]                                  | 3940 – 4670 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                    |
| <b>Vanillin (121-33-5)</b>                            |  |
| LC50 - Fish [1]                                       | 53 – 61.3 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA)     |
| LC50 - Fish [2]                                       | 88 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: EPA)                  |
| NOEC (acute)  | 10000 mg/kg (Exposure time: 42 Days - Species: Eisenia foetida [soil dry weight])                  |
| <b>Methyl ionone (mixture of isomers) (1335-46-2)</b> |  |
| LC50 - Fish [1]                                       | 2.3 mg/l (Exposure time: 96 h - Species: Danio rerio [static] Source: ECHA)                        |
| <b>Linalyl acetate (115-95-7)</b>                     |  |
| LC50 - Fish [1]                                       | 11 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [flow-through] Source: ECHA)               |
| <b>Linalool (78-70-6)</b>                             |  |
| EC50 96h - Algae [1]                                  | 88.3 mg/l (Species: Desmodemus subspicatus)  |
| <b>Cashmeran (33704-61-9)</b>                         |  |
| LC50 - Fish [1]                                       | 10.3 mg/l (Exposure time: 96 h - Species: Danio rerio [semi-static] Source: ECHA)                  |
| <b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b> |  |
| LC50 - Fish [1]                                       | 0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |

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|   |  |
|---|--|
| <b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b> |  |
| LC50 - Fish [2]                                       | 35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)               |
| <b>.alpha.-Pinene (80-56-8)</b>                       |  |
| LC50 - Fish [1]                                       | 0.28 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static] Source: IUCLID) |
| EC50 - Crustacea [1]                                  | 41 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                 |
| <b>citral (5392-40-5)</b>                             |  |
| EC50 - Crustacea [1]                                  | 7 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                  |
| EC50 72h - Algae [1]                                  | 16 mg/l (Species: Desmodesmus subspicatus)   |
| EC50 96h - Algae [1]                                  | 19 mg/l (Species: Desmodesmus subspicatus)   |
| <b>isobutyl acetate (110-19-0)</b>                    |  |
| LC50 - Fish [1]                                       | 17 mg/l (Exposure time: 96 h - Species: Oryzias latipes Source: ECHA)                  |

### 12.2. Persistence and degradability

|   |   |
|---|---|
| <b>LAVENDER AND VANILLA CC-16435</b>  |   |
| Persistence and degradability   | Not established.  |
| <b>Ethylene brassylate (105-95-3)</b>   |   |
| Persistence and degradability   | Rapidly degradable                                      |
| <b>benzyl benzoate (120-51-4)</b>   |   |
| Persistence and degradability   | May cause long-term adverse effects in the environment. |
| <b>ACETYL HEXAMETHYL TETRALIN (21145-77-7)</b>  |   |
| Persistence and degradability   | Rapidly degradable                                      |
| <b>1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8-tetramethyl-2-naphthalenyl)ethanone (54464-57-2)</b>                    |   |
| Persistence and degradability   | Rapidly degradable                                      |
| <b>tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) (63500-71-0)</b>                   |   |
| Persistence and degradability   | Rapidly degradable                                      |
| <b>Hexyl salicylate (6259-76-3)</b>   |   |
| Persistence and degradability   | Rapidly degradable                                      |
| <b>Mayol (13828-37-0)</b>   |   |
| Persistence and degradability   | Rapidly degradable                                      |
| <b>Dihydromyrcenol (18479-58-8)</b>   |   |
| Persistence and degradability   | Rapidly degradable                                      |
| <b>3-(2,2-dimethyl-3-hydroxypropyl)toluene; (alt.): 2,2-dimethyl-3-(3-methylphenyl)propanol (103694-68-4)</b> |   |
| Persistence and degradability   | Rapidly degradable                                      |
| <b>ETHYLENE DODECANEDIOATE (54982-83-1)</b>   |   |
| Persistence and degradability   | Rapidly degradable                                      |
| <b>Cyclamal (103-95-7)</b>  |   |
| Persistence and degradability   | Rapidly degradable                                      |



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|   |   |
|---|---|
| <b>Carbitol (111-90-0)</b>                            |   |
| Persistence and degradability                         | Rapidly degradable                                      |
| <b>Hydroxy (107-75-5)</b>                             |   |
| Persistence and degradability                         | Rapidly degradable                                      |
| <b>COUMARIN (91-64-5)</b>                             |   |
| Persistence and degradability                         | Rapidly degradable                                      |
| <b>Vanillin (121-33-5)</b>                            |   |
| Persistence and degradability                         | Rapidly degradable                                      |
| <b>Methyl ionone (mixture of isomers) (1335-46-2)</b> |   |
| Persistence and degradability                         | Rapidly degradable                                      |
| <b>Lavandin abrialis oil (8022-15-9)</b>              |   |
| Persistence and degradability                         | Rapidly degradable                                      |
| <b>Thyme oil, white (8007-46-3)</b>                   |   |
| Persistence and degradability                         | Rapidly degradable                                      |
| <b>Coriander oil (8008-52-4)</b>                      |   |
| Persistence and degradability                         | Rapidly degradable                                      |
| <b>Linalyl acetate (115-95-7)</b>                     |   |
| Persistence and degradability                         | Rapidly degradable                                      |
| <b>Cornmint oil (redist) (68917-18-0)</b>             |   |
| Persistence and degradability                         | Rapidly degradable                                      |
| <b>Clary sage oil (8016-63-5)</b>                     |   |
| Persistence and degradability                         | Rapidly degradable                                      |
| <b>Linalool (78-70-6)</b>                             |   |
| Persistence and degradability                         | Rapidly degradable                                      |
| <b>Sandela (66068-84-6)</b>                           |   |
| Persistence and degradability                         | Rapidly degradable                                      |
| <b>trans-Anethole (4180-23-8)</b>                     |   |
| Persistence and degradability                         | Rapidly degradable                                      |
| <b>Geranium oil Egyptian (8000-46-2)</b>              |   |
| Persistence and degradability                         | May cause long-term adverse effects in the environment. |
| <b>Cashmeran (33704-61-9)</b>                         |   |
| Persistence and degradability                         | Rapidly degradable                                      |
| <b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b> |   |
| Persistence and degradability                         | Rapidly degradable                                      |
| <b>Floralozone (67634-15-5)</b>                       |   |
| Persistence and degradability                         | Rapidly degradable                                      |

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|  |                    |
|--|--------------------|
| <b>.alpha.-Pinene (80-56-8)</b>                      |                    |
| Persistence and degradability                        | Rapidly degradable |
| <b>.beta.-Pinene (127-91-3)</b>                      |                    |
| Persistence and degradability                        | Rapidly degradable |
| <b>p-Cymene (99-87-6)</b>                            |                    |
| Persistence and degradability                        | Rapidly degradable |
| <b>Cardamom oil (8000-66-6)</b>                      |                    |
| Persistence and degradability                        | Rapidly degradable |
| <b>Artemisia vulgaris oil (Armoise) (68991-20-8)</b> |                    |
| Persistence and degradability                        | Rapidly degradable |
| <b>Rose oxide (16409-43-1)</b>                       |                    |
| Persistence and degradability                        | Rapidly degradable |
| <b>Cinnamic aldehyde (104-55-2)</b>                  |                    |
| Persistence and degradability                        | Rapidly degradable |
| <b>citral (5392-40-5)</b>                            |                    |
| Persistence and degradability                        | Rapidly degradable |
| <b>isobutyl acetate (110-19-0)</b>                   |                    |
| Persistence and degradability                        | Rapidly degradable |
| <b>dipentene; limonene (138-86-3)</b>                |                    |
| Persistence and degradability                        | Rapidly degradable |

### 12.3. Bioaccumulative potential

|   |                                    |
|---|------------------------------------|
| <b>LAVENDER AND VANILLA CC-16435</b>  |                                    |
| Bioaccumulative potential   | Not established.                   |
| <b>Ethylene brassylate (105-95-3)</b>   |                                    |
| Partition coefficient n-octanol/water (Log Pow)   | 4.3 (at 25 °C (at pH 6.4-7)        |
| <b>benzyl benzoate (120-51-4)</b>   |                                    |
| Partition coefficient n-octanol/water (Log Pow)   | 3.97 (at 25 °C)                    |
| Bioaccumulative potential   | Not established.                   |
| <b>ACETYL HEXAMETHYL TETRALIN (21145-77-7)</b>  |                                    |
| Partition coefficient n-octanol/water (Log Pow)   | 5.7 (at 24 °C)                     |
| <b>tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) (63500-71-0)</b> |                                    |
| Partition coefficient n-octanol/water (Log Pow)   | 1.65 (at 23 °C (at pH >6.09-<6.74) |
| <b>Hexyl salicylate (6259-76-3)</b>   |                                    |
| Partition coefficient n-octanol/water (Log Pow)   | 5.5 (at 30 °C (at pH 7)            |
| <b>Dihydromyrcenol (18479-58-8)</b>   |                                    |
| Partition coefficient n-octanol/water (Log Pow)   | 3.25 (at 40 °C (at pH 7)           |

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|   |                                       |
|---|---------------------------------------|
| <b>3-(2,2-dimethyl-3-hydroxypropyl)toluene; (alt.): 2,2-dimethyl-3-(3-methylphenyl)propanol (103694-68-4)</b> |                                       |
| Partition coefficient n-octanol/water (Log Pow)   | 3.07 (at 20 °C)                       |
| <b>ETHYLENE DODECANEDIOATE (54982-83-1)</b>   |                                       |
| BCF - Fish [1]  | (156 dimensionless (whole body w.w.)) |
| Partition coefficient n-octanol/water (Log Pow)   | 3.65 (at 20 °C (at pH >=7.39-<=7.99)) |
| <b>Cyclamal (103-95-7)</b>  |                                       |
| Partition coefficient n-octanol/water (Log Pow)   | 3.4 (at 35 °C)                        |
| <b>Carbitol (111-90-0)</b>  |                                       |
| Partition coefficient n-octanol/water (Log Pow)   | -0.8                                  |
| <b>Hydroxy (107-75-5)</b>   |                                       |
| Partition coefficient n-octanol/water (Log Pow)   | 1.68 (at 25 °C)                       |
| <b>Vanillin (121-33-5)</b>  |                                       |
| Partition coefficient n-octanol/water (Log Pow)   | 1.23 (at 22 °C)                       |
| <b>Methyl ionone (mixture of isomers) (1335-46-2)</b>   |                                       |
| Partition coefficient n-octanol/water (Log Pow)   | (>4.5 - <5 - at 23 °C (at pH 6.2))    |
| <b>Linalyl acetate (115-95-7)</b>   |                                       |
| Partition coefficient n-octanol/water (Log Pow)   | 3.9 (at 25 °C)                        |
| <b>Geranium oil Egyptian (8000-46-2)</b>  |                                       |
| Bioaccumulative potential   | Not established.                      |
| <b>Cashmeran (33704-61-9)</b>   |                                       |
| BCF - Fish [1]  | (81 dimensionless (whole body w.w.))  |
| Partition coefficient n-octanol/water (Log Pow)   | 4.2 (at 20 °C)                        |
| <b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b>   |                                       |
| Partition coefficient n-octanol/water (Log Pow)   | 4.38 (at 37 °C (at pH 7.2))           |
| <b>.alpha.-Pinene (80-56-8)</b>   |                                       |
| Partition coefficient n-octanol/water (Log Pow)   | 4.1                                   |
| <b>p-Cymene (99-87-6)</b>   |                                       |
| Partition coefficient n-octanol/water (Log Pow)   | 4.8 (at 20 °C (at pH 7))              |
| Partition coefficient n-octanol/water (Log Pow)   | 0                                     |
| <b>Rose oxide (16409-43-1)</b>  |                                       |
| Partition coefficient n-octanol/water (Log Pow)   | 3.3 (at 23 °C (at pH 6.5))            |
| <b>Cinnamic aldehyde (104-55-2)</b>   |                                       |
| Partition coefficient n-octanol/water (Log Pow)   | 2.1065 (at 25 °C)                     |
| <b>citral (5392-40-5)</b>   |                                       |
| Partition coefficient n-octanol/water (Log Pow)   | 2.76 (at 25 °C)                       |
| <b>isobutyl acetate (110-19-0)</b>  |                                       |
| BCF - Fish [1]  | (no significant bioconcentration)     |

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### isobutyl acetate (110-19-0)

Partition coefficient n-octanol/water (Log Pow) 2.3 (at 25 °C (at pH 7)

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

No additional information available

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

Additional information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.  
Ecological information : Avoid release to the environment.  
HP Code : HP6 - "Acute Toxicity:" waste which can cause acute toxic effects following oral or dermal administration, or inhalation exposure.  
HP4 - "Irritant – skin irritation and eye damage:" waste which on application can cause skin irritation or damage to the eye.  
HP13 - "Sensitising:" waste which contains one or more substances known to cause sensitising effects to the skin or the respiratory organs.  
HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment

## SECTION 14: Transport information






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

| ADR   | IMDG   | IATA   | ADN  | RID  |
|---|--|--|--|--|
| <b>14.1. UN number or ID number</b>   |  |  |  |  |
| UN 3082   | UN 3082  | UN 3082  | UN 3082  | UN 3082  |
| <b>14.2. UN proper shipping name</b>  |  |  |  |  |
| ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acetyl Hexamethyl Tetralin)                      | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acetyl Hexamethyl Tetralin)                                   | Environmentally hazardous substance, liquid, n.o.s. (Acetyl Hexamethyl Tetralin)                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acetyl Hexamethyl Tetralin)                 | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acetyl Hexamethyl Tetralin)                 |
| <b>Transport document description</b>   |  |  |  |  |
| UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acetyl Hexamethyl Tetralin), 9, III, (-) | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acetyl Hexamethyl Tetralin), 9, III, MARINE POLLUTANT | UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Acetyl Hexamethyl Tetralin), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acetyl Hexamethyl Tetralin), 9, III | UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Acetyl Hexamethyl Tetralin), 9, III |

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| ADR   | IMDG  | IATA  | ADN  | RID   |
|---|---|---|--|---|
| <b>14.3. Transport hazard class(es)</b>   |   |   |  |   |
| 9   | 9   | 9   | 9  | 9   |
|  |  |  |  |  |
| <b>14.4. Packing group</b>  |   |   |  |   |
| III   | III   | III   | III  | III   |
| <b>14.5. Environmental hazards</b>  |   |   |  |   |
| Dangerous for the environment: Yes  | Dangerous for the environment: Yes<br>Marine pollutant: Yes                       | Dangerous for the environment: Yes  | Dangerous for the environment: Yes   | Dangerous for the environment: Yes  |
| No supplementary information available  |   |   |  |   |

### 14.6. Special precautions for user

#### Overland transport

|   |  |
|---|--|
| Classification code (ADR)   | : M6   |
| Special provisions (ADR)  | : 274, 335, 375, 601   |
| 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   | : <br> |
| Tunnel restriction code (ADR)   | : -  |
| EAC code  | : +3Z  |

#### Transport by sea

|                                   |                 |
|-----------------------------------|-----------------|
| Special provisions (IMDG)         | : 274, 335, 969 |
| Limited quantities (IMDG)         | : 5 L           |
| Excepted quantities (IMDG)        | : E1            |
| Packing instructions (IMDG)       | : LP01, P001    |
| Special packing provisions (IMDG) | : PP1           |
| IBC packing instructions (IMDG)   | : IBC03         |
| Tank instructions (IMDG)          | : T4            |
| Tank special provisions (IMDG)    | : TP1, TP29     |
| EmS-No. (Fire)                    | : F-A           |
| EmS-No. (Spillage)                | : S-F           |
| Stowage category (IMDG)           | : A             |

#### Air transport

|                                |      |
|--------------------------------|------|
| PCA Excepted quantities (IATA) | : E1 |
|--------------------------------|------|

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|  |                         |
|--|-------------------------|
| 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. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

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

| EU restriction list (REACH Annex XVII) |  |  |
|--|--|--|
| Reference code                         | Applicable on  | Entry title or description   |
| 3(a)                                   | Thyme oil, white ; (R)-p-mentha-1,8-diene; d-limonene ; .alpha.-Pinene ; .beta.-Pinene ; p-Cymene ; Cardamom oil ; Artemesia vulgaris oil (Armoise) ; isobutyl acetate ; dipentene; limonene | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F |

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| EU restriction list (REACH Annex XVII) |   |   |
|--|---|---|
| Reference code                         | Applicable on   | Entry title or description  |
| 3(b)                                   | LAVENDER AND VANILLA<br>CC-16435 ; benzyl benzoate ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone ; tetrahydro-2-isobutyl-4-methylpyran-4-ol, mixed isomers (cis and trans) ; Hexyl salicylate ; Mayol ; Dihydromyrcenol ; 3-(2,2-dimethyl-3-hydroxypropyl)toluene; (alt.): 2,2-dimethyl-3-(3-methylphenyl)propanol ; Cyclamal ; Hydroxy ; Methyl ionone (mixture of isomers) ; Lavandin abrialis oil ; Thyme oil, white ; Coriander oil ; Linalyl acetate ; Cornmint oil (redist) ; Clary sage oil ; Linalool ; Sandela ; trans-Anethole ; Geranium oil Egyptian ; Cashmeran ; (R)-p-mentha-1,8-diene; d-limonene ; Floralozone ; .alpha.-Pinene ; p-Cymene ; Cardamom oil ; Artemesia vulgaris oil (Armoise) ; Rose oxide ; Cinnamic aldehyde ; citral ; isobutyl acetate ; dipentene; limonene | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 |

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| EU restriction list (REACH Annex XVII) |  |  |
|--|--|--|
| Reference code                         | Applicable on  | Entry title or description   |
| 3(c)                                   | LAVENDER AND VANILLA<br>CC-16435 ; Ethylene brassylate ; benzyl benzoate ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8-tetramethyl-2-naphthalenyl)ethanone ; Hexyl salicylate ; 3-(2,2-dimethyl-3-hydroxypropyl)toluene ; (alt.): 2,2-dimethyl-3-(3-methylphenyl)propanol ; ETHYLENE<br>DODECANEDIOATE ; Cyclamal ; Methyl ionone (mixture of isomers) ; Lavandin abrialis oil ; Thyme oil, white ; Coriander oil ; Corrmint oil (redist) ; Clary sage oil ; Sandela ; Geranium oil Egyptian ; Cashmeran ; (R)-p-mentha-1,8-diene ; d-limonene ; Floralozone ; .alpha.-Pinene ; p-Cymene ; Cardamom oil ; Artemesia vulgaris oil (Armoise) ; Cinnamic aldehyde ; dipentene ; limonene | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1  |
| 40.                                    | Thyme oil, white ; (R)-p-mentha-1,8-diene ; d-limonene ; .alpha.-Pinene ; .beta.-Pinene ; p-Cymene ; Cardamom oil ; Artemesia vulgaris oil (Armoise) ; isobutyl acetate ; dipentene ; limonene   | Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. |

### REACH Annex XIV (Authorisation List)

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

### REACH Candidate List (SVHC)

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

### PIC Regulation (Prior Informed Consent)

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

### POP Regulation (Persistent Organic Pollutants)

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

### Ozone Regulation (1005/2009)

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

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

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



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### VOC Directive (2004/42)

VOC content : 8.49235794 % (calculated value)(CARB VOC) (%w/w)

### Explosives Precursors Regulation (2019/1148)

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

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

### 15.1.2. National regulations

#### 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 dimethylacetamine; 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 3, Highly hazardous to water (Classification according to AwSV, Annex 1).

List of sensitizing substances (TRGS 907) : Contains sensitizing substances according TRGS 907.

Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

#### Netherlands

ABM category : A(1) - highly toxic for aquatic organisms, may have longterm hazardous effects in aquatic environment

SZW-lijst van kankerverwekkende stoffen : Thyme oil, white, Cornmint oil (redist), Sandela, Floralozone, Artemesia vulgaris oil (Armoise) are listed

SZW-lijst van mutagene stoffen : Thyme oil, white, Sandela, Floralozone, Artemesia vulgaris oil (Armoise) are listed

SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed

SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed

SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

#### Denmark

Classification remarks : Emergency management guidelines for the storage of flammable liquids must be followed

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product  
Pregnant/breastfeeding women working with the product must not be in direct contact with the product

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

| Abbreviations and acronyms: |   |
|-----------------------------|---|
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR                         | European Agreement concerning the International Carriage of Dangerous Goods by Road             |
| ATE                         | Acute Toxicity Estimate   |
| BCF                         | Bioconcentration factor   |

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| Abbreviations and acronyms: |  |
|-----------------------------|--|
| BLV                         | Biological limit value   |
| BOD                         | Biochemical oxygen demand (BOD)  |
| COD                         | Chemical oxygen demand (COD)   |
| DMEL                        | Derived Minimal Effect level   |
| DNEL                        | Derived-No Effect Level  |
| EC-No.                      | European Community number  |
| EC50                        | Median effective concentration   |
| EN                          | European Standard  |
| IARC                        | International Agency for Research on Cancer                                  |
| IATA                        | International Air Transport Association                                      |
| IMDG                        | International Maritime Dangerous Goods                                       |
| LC50                        | Median lethal concentration  |
| LD50                        | Median lethal dose   |
| LOAEL                       | Lowest Observed Adverse Effect Level   |
| NOAEC                       | No-Observed Adverse Effect Concentration                                     |
| NOAEL                       | No-Observed Adverse Effect Level   |
| NOEC                        | No-Observed Effect Concentration   |
| OECD                        | Organisation for Economic Co-operation and Development                       |
| OEL                         | Occupational Exposure Limit  |
| PBT                         | Persistent Bioaccumulative Toxic   |
| PNEC                        | Predicted No-Effect Concentration  |
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| SDS                         | Safety Data Sheet  |
| STP                         | Sewage treatment plant   |
| ThOD                        | Theoretical oxygen demand (ThOD)   |
| TLM                         | Median Tolerance Limit   |
| VOC                         | Volatile Organic Compounds   |
| CAS-No.                     | Chemical Abstract Service number   |
| N.O.S.                      | Not Otherwise Specified  |
| vPvB                        | Very Persistent and Very Bioaccumulative                                     |
| ED                          | Endocrine disrupting properties  |

Other information : None.

| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| Acute Tox. 3 (Inhalation)           | Acute toxicity (inhal.), Category 3              |
| Acute Tox. 3 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 3 |
| Acute Tox. 4 (Dermal)               | Acute toxicity (dermal), Category 4              |
| Acute Tox. 4 (Oral)                 | Acute toxicity (oral), Category 4                |

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| Full text of H- and EUH-statements: |  |
|-------------------------------------|--|
| 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. 2                        | Flammable liquids, Category 2  |
| Flam. Liq. 3                        | Flammable liquids, Category 3  |
| H225                                | Highly flammable liquid and vapour.                                    |
| H226                                | Flammable liquid and vapour.   |
| H302                                | Harmful if swallowed.  |
| H304                                | May be fatal if swallowed and enters airways.                          |
| H312                                | Harmful in contact with skin.  |
| H314                                | Causes severe skin burns and eye damage.                               |
| H315                                | Causes skin irritation.  |
| H317                                | May cause an allergic skin reaction.                                   |
| H318                                | Causes serious eye damage.   |
| H319                                | Causes serious eye irritation.   |
| H331                                | Toxic if inhaled.  |
| H336                                | May cause drowsiness or dizziness.                                     |
| H361                                | Suspected of damaging fertility or the unborn child.                   |
| H371                                | May cause damage to organs.  |
| H373                                | May cause damage to organs through prolonged or repeated exposure.     |
| H400                                | Very toxic to aquatic life.  |
| H410                                | Very toxic to aquatic life with long lasting effects.                  |
| H411                                | Toxic to aquatic life with long lasting effects.                       |
| H412                                | Harmful to aquatic life with long lasting effects.                     |
| Repr. 2                             | Reproductive toxicity, Category 2                                      |
| Skin Corr. 1                        | Skin corrosion/irritation, Category 1                                  |
| Skin Irrit. 2                       | Skin corrosion/irritation, Category 2                                  |
| Skin Sens. 1                        | Skin sensitisation, Category 1   |
| Skin Sens. 1A                       | Skin sensitisation, category 1A  |
| Skin Sens. 1B                       | Skin sensitisation, category 1B  |
| STOT RE 2                           | Specific target organ toxicity – Repeated exposure, Category 2         |
| STOT SE 2                           | Specific target organ toxicity – Single exposure, Category 2           |
| STOT SE 3                           | Specific target organ toxicity – Single exposure, Category 3, Narcosis |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

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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.