

# TYPE 8 - LYMIO CC-13219 5% in DPG

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878



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

#### 1.1. Product identifier

Product form : Mixture  
Product name : TYPE 8 - LYMIO CC-13219 5% in DPG  
Product code : CC-13219\_5%  
Type of product : Perfumes, fragrances

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

##### 1.2.1. Relevant identified uses

Industrial/Professional use spec : Industrial  
For professional use only  
Use of the substance/mixture : Perfumes, fragrances  
Function or use category : Odour agents

##### 1.2.2. Uses advised against

No additional information available

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

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

#### 1.4. Emergency telephone number

No additional information available

### SECTION 2: Hazards identification

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

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

Hazardous to the aquatic environment – Chronic Hazard, H412  
Category 3  
Full text of H- and EUH-statements: see section 16

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

No additional information available

#### 2.2. Label elements

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

Signal word (CLP) : -  
Hazard statements (CLP) : H412 - Harmful to aquatic life with long lasting effects.  
Precautionary statements (CLP) : P273 - Avoid release to the environment.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.  
EUH-statements : EUH208 - Contains 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone. May produce an allergic reaction.  
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 %

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### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name  | Product identifier  | %                          | Classification according to Regulation (EC) No. 1272/2008 [CLP]   |
|---|---|----------------------------|---|
| benzyl benzoate   | CAS-No.: 120-51-4<br>EC-No.: 204-402-9<br>EC Index-No.: 607-085-00-9<br>REACH-no: 01-2119976371-33  | 1.795 – 3.59               | Acute Tox. 4 (Oral), H302<br>Aquatic Acute 1, H400<br>Aquatic Chronic 2, H411   |
| 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                              | 0.225 – 0.45               | Skin Irrit. 2, H315<br>Skin Sens. 1, H317<br>Aquatic Chronic 1, H410  |
| Benzyl acetate<br>substance with national workplace exposure limit(s)<br>(BE, DK, ES, IE, LT, LV, PT, RO)             | CAS-No.: 140-11-4<br>EC-No.: 205-399-7<br>REACH-no: 01-2119638272-42                                | 0.015 – 0.0275             | Aquatic Chronic 3, H412   |
| (R)-p-mentha-1,8-diene; d-limonene<br>substance with national workplace exposure limit(s)<br>(DE, ES, FI, SI, NO, CH) | CAS-No.: 5989-27-5<br>EC-No.: 205-341-0<br>EC Index-No.: 601-096-00-2<br>REACH-no: 01-2119493353-35 | 0.0038421 – 0.00704385     | 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 |
| Ethyl acetoacetate<br>substance with national workplace exposure limit(s)<br>(RO)                                     | CAS-No.: 141-97-9<br>EC-No.: 205-516-1  | 0 – 0.0025                 | Not classified  |
| .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  | 0.000573825 – 0.0010520125 | Flam. Liq. 3, H226  |

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

|                                       |   |
|---------------------------------------|---|
| First-aid measures general            | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation   | : Allow affected person to breathe fresh air. Allow the victim to rest.   |
| First-aid measures after skin contact | : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.                 |
| First-aid measures after eye contact  | : Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness persists.                         |
| First-aid measures after ingestion    | : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.  |

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

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

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

No additional information available

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

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

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

No additional information available

#### 5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

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

##### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

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

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

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

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

#### 6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

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

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container closed when not in use.  
Incompatible products : Strong bases. Strong acids.  
Incompatible materials : Sources of ignition. Direct sunlight.

#### Germany

Storage class (LGK, TRGS 510) : LGK 12 - Non-combustible liquids

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Joint storage table

|          |         |          |          |           |
|----------|---------|----------|----------|-----------|
| LGK 1    | LGK 2A  | LGK 2B   | LGK 3    | LGK 4.1A  |
| LGK 4.1B | LGK 4.2 | LGK 4.3  | LGK 5.1A | LGK 5.1B  |
| LGK 5.1C | LGK 5.2 | LGK 6.1A | LGK 6.1B | LGK 6.1C  |
| LGK 6.1D | LGK 6.2 | LGK 7    | LGK 8A   | LGK 8B    |
| LGK 10   | LGK 11  | LGK 12   | LGK 13   | LGK 10-13 |

Joint storage not permitted for

: LGK 1, LGK 6.2, LGK 7

Joint storage with restrictions permitted for

: LGK 4.1A, LGK 4.3, LGK 5.1C

Joint storage permitted for

: LGK 2A, LGK 2B, LGK 3, LGK 4.1B, LGK 4.2, LGK 5.1A, LGK 5.1B, LGK 5.2, LGK 6.1A, LGK 6.1B, LGK 6.1C, LGK 6.1D, LGK 8A, LGK 8B, LGK 10, LGK 11, LGK 12, LGK 13, LGK 10-13

### Switzerland

Storage class (LK)

: LK 10/12 - Liquids

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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

| (R)-p-mentha-1,8-diene; d-limonene (5989-27-5)           |   |
|--|---|
| <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  |
| <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) |
|  | 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>  |
|  | 5 ppm   |
| OEL STEL   | 112 mg/m <sup>3</sup>   |
|  | 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>   |
|  | 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>   |

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| <b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b> |   |
|---|---|
|   | 25 ppm  |
| Korttidsverdi (OEL STEL)                              | 175 mg/m <sup>3</sup> (value calculated)  |
|   | 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>  |
|   | 7 ppm   |
| KZGW (OEL STEL)                                       | 80 mg/m <sup>3</sup>  |
|   | 14 ppm  |
| OEL chemical category                                 | 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)                |
| <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  |

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| <b>.beta.-Pinene (127-91-3)</b>                   |   |
|---|---|
| <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>Benzyl acetate (140-11-4)</b>                  |   |
| <b>Belgium - Occupational Exposure Limits</b>     |   |
| OEL TWA   | 62 mg/m <sup>3</sup>                                      |
|   | 10 ppm  |
| <b>Denmark - Occupational Exposure Limits</b>     |   |
| OEL TWA   | 61 mg/m <sup>3</sup>                                      |
|   | 10 ppm  |
| OEL STEL  | 122 mg/m <sup>3</sup>                                     |
|   | 20 ppm  |
| <b>Ireland - Occupational Exposure Limits</b>     |   |
| OEL TWA   | 10 ppm  |
| OEL STEL  | 30 ppm (calculated)                                       |
| <b>Latvia - Occupational Exposure Limits</b>      |   |
| OEL TWA   | 5 mg/m <sup>3</sup>                                       |
| <b>Lithuania - Occupational Exposure Limits</b>   |   |
| IPRV (OEL TWA)                                    | 5 mg/m <sup>3</sup>                                       |
| <b>Portugal - Occupational Exposure Limits</b>    |   |
| OEL TWA   | 10 ppm  |
| OEL chemical category                             | A4 - Not Classifiable as a Human Carcinogen               |
| <b>Romania - Occupational Exposure Limits</b>     |   |
| OEL TWA   | 50 mg/m <sup>3</sup>                                      |
|   | 8 ppm   |
| OEL STEL  | 80 mg/m <sup>3</sup>                                      |
|   | 13 ppm  |
| <b>Spain - Occupational Exposure Limits</b>       |   |
| VLA-ED (OEL TWA)                                  | 62 mg/m <sup>3</sup>                                      |
|   | 10 ppm  |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |   |
| ACGIH OEL TWA                                     | 10 ppm  |
| ACGIH chemical category                           | Not Classifiable as a Human Carcinogen                    |

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

#### Romania - Occupational Exposure Limits

|          |                       |
|----------|-----------------------|
| OEL TWA  | 100 mg/m <sup>3</sup> |
|          | 19 ppm                |
| OEL STEL | 200 mg/m <sup>3</sup> |
|          | 38 ppm                |

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

No additional information available

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

No additional information available

#### 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

##### 8.2.2.2. Skin protection

**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

#### 8.2.3. Environmental exposure controls

**Other information:**

Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

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

Physical state : Liquid  
Colour : Standard.

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|   |                   |
|---|-------------------|
| Odour   | : characteristic. |
| Odour threshold                                 | : Not available   |
| Melting point                                   | : Not available   |
| Freezing point                                  | : Not available   |
| Boiling point                                   | : Not available   |
| Flammability                                    | : Non flammable.  |
| Lower explosion limit                           | : Not available   |
| Upper explosion limit                           | : Not available   |
| Flash point                                     | : > 93 °C         |
| Auto-ignition temperature                       | : Not available   |
| Decomposition temperature                       | : Not available   |
| pH  | : Not available   |
| Viscosity, kinematic                            | : Not available   |
| Solubility                                      | : Not available   |
| Partition coefficient n-octanol/water (Log Kow) | : Not available   |
| Vapour pressure                                 | : Not available   |
| Vapour pressure at 50°C                         | : Not available   |
| Density   | : Not available   |
| Relative density                                | : Not available   |
| Relative vapour density at 20°C                 | : Not available   |
| Particle characteristics                        | : Not applicable  |

### 9.2. Other information

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

No additional information available

#### 9.2.2. Other safety characteristics

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Not established.

### 10.3. Possibility of hazardous reactions

Not established.

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong bases.

### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## SECTION 11: Toxicological information

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

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



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| <b>benzyl benzoate (120-51-4)</b>                     |  |
|---|--|
| LD50 oral rat   | 500 mg/kg (Source: NLM_CIP)  |
| LD50 oral   | 1160 mg/kg bodyweight  |
| LD50 dermal rabbit                                    | 4000 mg/kg (Source: NLM_CIP)                                       |
| <b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b> |  |
| LD50 oral rat   | 4400 mg/kg (Source: CHEMVIEW)                                      |
| LD50 dermal rabbit                                    | > 5 g/kg (Source: CHEMVIEW)  |
| <b>.beta.-Pinene (127-91-3)</b>                       |  |
| LD50 oral rat   | > 5000 mg/kg (Source: EPA_HP)                                      |
| LD50 dermal rabbit                                    | > 5000 mg/kg (Source: CHEMVIEW)                                    |
| <b>Benzyl acetate (140-11-4)</b>                      |  |
| LD50 oral rat   | 2490 mg/kg (Source: JAPAN_GHS)                                     |
| LD50 oral   | 2490 mg/kg bodyweight  |
| LD50 dermal rabbit                                    | > 5000 mg/kg (Source: JAPAN_GHS)                                   |
| <b>Ethyl acetoacetate (141-97-9)</b>                  |  |
| LD50 oral rat   | 3980 mg/kg (Source: NLM_CIP)                                       |
| LD50 dermal rabbit                                    | > 5000 mg/kg (Source: NLM_CIP)                                     |
| Skin corrosion/irritation                             | : Not classified   |
| Additional information                                | : Based on available data, the classification criteria are not met |
| Serious eye damage/irritation                         | : Not classified   |
| Additional information                                | : Based on available data, the classification criteria are not met |
| Respiratory or skin sensitisation                     | : Not classified   |
| Additional information                                | : Based on available data, the classification criteria are not met |
| Germ cell mutagenicity                                | : Not classified   |
| Additional information                                | : Based on available data, the classification criteria are not met |
| Carcinogenicity                                       | : Not classified   |
| Additional information                                | : Based on available data, the classification criteria are not met |
| <b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b> |  |
| IARC group  | 3 - Not classifiable   |
| <b>Benzyl acetate (140-11-4)</b>                      |  |
| IARC group  | 3 - Not classifiable   |
| Reproductive toxicity                                 | : Not classified   |
| Additional information                                | : Based on available data, the classification criteria are not met |
| STOT-single exposure                                  | : Not classified   |
| Additional information                                | : Based on available data, the classification criteria are not met |
| STOT-repeated exposure                                | : Not classified   |
| Additional information                                | : Based on available data, the classification criteria are not met |
| Aspiration hazard                                     | : Not classified   |
| Additional information                                | : Based on available data, the classification criteria are not met |
| <b>benzyl benzoate (120-51-4)</b>                     |  |
| Viscosity, kinematic                                  | 7.456 mm <sup>2</sup> /s   |

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

No additional information available

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### 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

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

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

| <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>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b> |  |
| LC50 - Fish [1]                                       | 0.619 – 0.796 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through] Source: EPA) |
| LC50 - Fish [2]                                       | 35 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: EPA)                           |
| <b>Ethyl acetoacetate (141-97-9)</b>                  |  |
| LC50 - Fish [1]                                       | 298 mg/l (Exposure time: 96 h - Species: Pimephales promelas Source: IUCLID)                       |
| LC50 - Fish [2]                                       | 290 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss Source: IUCLID)                       |
| EC50 - Crustacea [1]                                  | 646 mg/l (Exposure time: 48 h - Species: Daphnia magna)  |
| EC50 72h - Algae [1]                                  | > 500 mg/l (Species: Desmodesmus subspicatus)  |

### 12.2. Persistence and degradability

| <b>TYPE 8 - LYMIO CC-13219 5% in DPG</b>   |   |
|--|---|
| Persistence and degradability  | Not established.  |
| <b>benzyl benzoate (120-51-4)</b>  |   |
| Persistence and degradability  | May cause long-term adverse effects in the environment. |
| <b>1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone (54464-57-2)</b> |   |
| Persistence and degradability  | Rapidly degradable                                      |
| <b>(R)-p-mentha-1,8-diene; d-limonene (5989-27-5)</b>  |   |
| Persistence and degradability  | Rapidly degradable                                      |
| <b>.beta.-Pinene (127-91-3)</b>  |   |
| Persistence and degradability  | Rapidly degradable                                      |
| <b>Benzyl acetate (140-11-4)</b>   |   |
| Persistence and degradability  | Rapidly degradable                                      |
| <b>Ethyl acetoacetate (141-97-9)</b>   |   |
| Persistence and degradability  | Rapidly degradable                                      |

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### 12.3. Bioaccumulative potential

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

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

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

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

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

|   |                             |
|---|-----------------------------|
| Partition coefficient n-octanol/water (Log Pow) | 4.38 (at 37 °C (at pH 7.2)) |
|---|-----------------------------|

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

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

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

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

### 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

|  |  |
|--|--|
| Product/Packaging disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations.  |
| Ecological information                     | : Avoid release to the environment.  |
| HP Code                                    | : HP14 - "Ecotoxic:" waste which presents or may present immediate or delayed risks for one or more sectors of the environment |

## SECTION 14: Transport information

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

| ADR                                     | IMDG           | IATA           | ADN            | RID            |
|---|----------------|----------------|----------------|----------------|
| <b>14.1. UN number or ID number</b>     |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.2. UN proper shipping name</b>    |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.3. Transport hazard class(es)</b> |                |                |                |                |
| Not applicable                          | Not applicable | Not applicable | Not applicable | Not applicable |

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| ADR                                    | IMDG           | IATA           | ADN            | RID            |
|--|----------------|----------------|----------------|----------------|
| <b>14.4. Packing group</b>             |                |                |                |                |
| Not applicable                         | Not applicable | Not applicable | Not applicable | Not applicable |
| <b>14.5. Environmental hazards</b>     |                |                |                |                |
| Not applicable                         | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available |                |                |                |                |

### 14.6. Special precautions for user

#### Overland transport

Not applicable

#### Transport by sea

Not applicable

#### Air transport

Not applicable

#### Inland waterway transport

Not applicable

#### Rail transport

Not applicable

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

Not applicable

## SECTION 15: Regulatory information

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

#### 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)                                   | (R)-p-mentha-1,8-diene;<br>d-limonene ; .beta.-<br>Pinene   | Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F          |
| 3(b)                                   | benzyl benzoate ; 1-<br>(1,2,3,4,5,6,7,8-<br>Octahydro-2,3,8,8-<br>tetramethyl-2-<br>naphthalenyl)ethanone ;<br>(R)-p-mentha-1,8-diene;<br>d-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)                                   | TYPE 8 - LYMIO CC-13219 5% in DPG ; benzyl benzoate ; 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone ; (R)-p-mentha-1,8-diene; d-limonene ; Benzyl acetate | 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.                                    | (R)-p-mentha-1,8-diene; d-limonene ; .beta.-Pinene   | 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)

### Dual-Use Regulation (428/2009)

Contains no substance subject to the COUNCIL REGULATION (EC) No 428/2009 of 5 May 2009 setting up a Community regime for the control of exports, transfer, brokering and transit of dual-use items.

### Explosives Precursors Regulation (2019/1148)

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

### Drug Precursors Regulation (273/2004)

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

## 15.1.2. National regulations

### Germany

Water hazard class (WGK) : WGK 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).  
Hazardous Incident Ordinance (12. BImSchV) : Is not subject to the Hazardous Incident Ordinance (12. BImSchV)

### Netherlands

ABM category : A(2) - toxic for aquatic organisms, may have longterm hazardous effects in aquatic environment  
SZW-lijst van kankerverwekkende stoffen : None of the components are listed  
SZW-lijst van mutagene stoffen : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid : None of the components are listed  
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

### Denmark

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

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Danish National Regulations : 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

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Other information : None.

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

|                     |  |
|---------------------|--|
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4  |
| Aquatic Acute 1     | Hazardous to the aquatic environment – Acute Hazard, Category 1  |
| Aquatic Chronic 1   | Hazardous to the aquatic environment – Chronic Hazard, Category 1  |
| Aquatic Chronic 2   | Hazardous to the aquatic environment – Chronic Hazard, Category 2  |
| Aquatic Chronic 3   | Hazardous to the aquatic environment – Chronic Hazard, Category 3  |
| Asp. Tox. 1         | Aspiration hazard, Category 1  |
| EUH208              | Contains 1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthalenyl)ethanone. May produce an allergic reaction. |
| Flam. Liq. 3        | Flammable liquids, Category 3  |
| H226                | Flammable liquid and vapour.   |
| H302                | Harmful if swallowed.  |
| H304                | May be fatal if swallowed and enters airways.  |
| H315                | Causes skin irritation.  |
| H317                | May cause an allergic skin reaction.   |
| 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.   |
| Skin Irrit. 2       | Skin corrosion/irritation, Category 2  |
| Skin Sens. 1        | Skin sensitisation, Category 1   |
| Skin Sens. 1B       | Skin sensitisation, category 1B  |

The classification complies with : ATP 12

Safety Data Sheet (SDS), EU

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