

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

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## Safety Boots 400ml

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

#### 1.1. Product identifier

Trade name/designation:

Safety Boots 400ml

Article No.:

T902010

UFI:

K62R-36AM-Q023-QRYC

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

Use of the substance/mixture:

Cleaner for air conditioners

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

Supplier:

**KANDO Service GmbH**

Hartleitnerstraße 3

4653 Eberstalzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

#### 1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

### SECTION 2: Hazards identification

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

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

| Hazard classes and hazard categories                       | Hazard statements  | Classification procedure |
|--|--|--------------------------|
| Aerosols ( <i>Aerosol 1</i> )                              | H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated. |                          |
| Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )  | H319: Causes serious eye irritation.   |                          |
| Respiratory or skin sensitisation ( <i>Skin Sens. 1B</i> ) | H317: May cause an allergic skin reaction.   |                          |
| STOT-single exposure ( <i>STOT SE 3</i> )                  | H336: May cause drowsiness or dizziness.   |                          |

#### 2.2. Label elements

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

Hazard pictograms:



**GHS02**  
Flame



**GHS07**  
Exclamation mark

Signal word: Danger

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### Hazard components for labelling:

(R)-p-mentha-1,8-diene; propan-2-ol; Acetone; citral; (S)-p-mentha-1,8-diene; Cubeb root (Litsea cubeba) fruit oil; Rectified Hydrocarbons by-products from synthetic process of Turpentine and acid, alcohols fraction; Orange, sweet, extract

#### Hazard statements for physical hazards

|      |   |
|------|---|
| H222 | Extremely flammable aerosol.                |
| H229 | Pressurised container: May burst if heated. |

#### Hazard statements for health hazards

|      |                                      |
|------|--------------------------------------|
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation.       |
| H336 | May cause drowsiness or dizziness.   |

#### Supplemental hazard information

|        |   |
|--------|---|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
|--------|---|

#### Precautionary statements Prevention

|      |  |
|------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source.  |
| P251 | Do not pierce or burn, even after use.   |
| P280 | Wear protective gloves and eye protection/face protection.                                     |

#### Precautionary statements Storage

|             |  |
|-------------|--|
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |
|-------------|--|

#### Precautionary statements Disposal

|      |   |
|------|---|
| P501 | Dispose of contents/container to an appropriate recycling or disposal facility. |
|------|---|

### 2.3. Other hazards

#### Adverse human health effects and symptoms:

The product does not contain any substances with endocrine-disrupting properties in concentrations of  $\geq 0.1\%$ .

#### Adverse environmental effects:

Based on the available information, the product does not contain any PBT or vPvB substances in content percentages  $\geq 0.1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Additional information:

The product is an aerosol containing propellants. With regard to the calculation of health hazards, the propellants are not taken into account (unless they constitute a health hazard). The percentages given include the propellants.

Percentage of blowing agents: 75,50%

Regulation (EC) No. 648/2004 [Detergents regulation]:

< 30% aliphatic hydrocarbons

Fragrances, citral, Limonene

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### Hazardous ingredients / Hazardous impurities / Stabilisers:

| Product identifiers  | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP]  | Concentration           |
|--|---|-------------------------|
| CAS No.: 74-98-6<br>EC No.: 200-827-9<br>Index No.: 601-003-00-5<br>REACH No.:<br>01-2119486944-21   | <b>propane</b><br>Flam. Gas 1A (H220), Press. Gas (Liq.) (H280)<br>Danger   | ≥ 33 - ≤ 37<br>Vol-%    |
| CAS No.: 106-97-8<br>EC No.: 203-448-7<br>Index No.: 601-004-00-0<br>REACH No.:<br>01-2119474691-32  | <b>butane</b><br>Flam. Gas 1A (H220), Press. Gas (Liq.) (H280)<br>Danger  | ≥ 25 - ≤ 29<br>Vol-%    |
| CAS No.: 67-63-0<br>EC No.: 200-661-7<br>Index No.: 603-117-00-0<br>REACH No.:<br>01-2119457558-25   | <b>propan-2-ol</b><br>Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336)<br>Danger  | ≥ 20 - ≤ 22.5<br>Vol-%  |
| CAS No.: 75-28-5<br>EC No.: 200-857-2<br>REACH No.:<br>01-2119485395-27                              | <b>isobutane</b><br>Flam. Gas 1A (H220), Press. Gas (Comp.) (H280)<br>Danger  | ≥ 12.5 - ≤ 14<br>Vol-%  |
| CAS No.: 67-64-1<br>Index No.: 606-001-00-8<br>REACH No.:<br>01-2119471330-49                        | <b>Acetone</b><br>Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336)<br>Danger EUH066   | ≥ 2 - ≤ 2.5<br>Vol-%    |
| CAS No.: 5989-27-5<br>EC No.: 227-813-5<br>Index No.: 601-096-00-2<br>REACH No.:<br>01-2119529223-47 | <b>(R)-p-mentha-1,8-diene</b><br>Aquatic Acute 1 (H400), Aquatic Chronic 3 (H412), Asp. Tox. 1 (H304),<br>Flam. Liq. 3 (H226), Skin Irrit. 2 (H315), Skin Sens. 1B (H317)<br>Danger<br>M-factor (acute): 1                          | ≥ 0.25 - ≤ 0.3<br>Vol-% |
| EC No.: 949-141-8<br>REACH No.:<br>01-2120789752-39  | <b>Rectified Hydrocarbons by- products from synthetic process of Turpentine and acid, alcohols fraction</b><br>Asp. Tox. 1 (H304), Eye Irrit. 2 (H319), Flam. Liq. 3 (H226),<br>Skin Irrit. 2 (H315), Skin Sens. 1 (H317)<br>Danger | ≥ 0.2<br>Vol-%          |
| CAS No.: 8028-48-6<br>EC No.: 232-433-8<br>REACH No.:<br>01-2119493353-35                            | <b>Orange, sweet, extract</b><br>Aquatic Chronic 1 (H410), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226),<br>Skin Irrit. 2 (H315), Skin Sens. 1 (H317)<br>Danger<br>M-factor (chronic): 1   | ≥ 0.2<br>Vol-%          |
| CAS No.: 7173-51-5<br>EC No.: 230-525-2<br>Index No.: 612-131-00-6<br>REACH No.:<br>01-2119945987-15 | <b>didecyldimethylammonium chloride</b><br>Acute Tox. 3 (H301), Aquatic Acute 1 (H400), Aquatic Chronic 2 (H411),<br>Eye Dam. 1 (H318), Skin Corr. 1B (H314)<br>Danger<br>M-factor (acute): 10                                      | ≥ 0.1 - ≤ 0.15<br>Vol-% |
| CAS No.: 5989-54-8<br>EC No.: 227-815-6<br>Index No.: 601-029-00-7<br>REACH No.:<br>01-2119958629-18 | <b>(S)-p-mentha-1,8-diene</b><br>Aquatic Chronic 1 (H410), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226),<br>Skin Irrit. 2 (H315), Skin Sens. 1 (H317)<br>Danger<br>M-factor (chronic): 1   | ≥ 0.05 - ≤ 0.1<br>Vol-% |
| CAS No.: 68855-99-2<br>EC No.: 290-018-7<br>REACH No.:<br>01-2120118332-70                           | <b>Cubeb root (Litsea cubeba) fruit oil</b><br>Aquatic Chronic 2 (H411), Eye Irrit. 2 (H319), Skin Irrit. 2 (H315),<br>Skin Sens. 1 (H317)<br>Warning   | ≥ 0.05 - ≤ 0.1<br>Vol-% |

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| Product identifiers  | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP]             | Concentration           |
|--|--|-------------------------|
| CAS No.: 5392-40-5<br>EC No.: 226-394-6<br>Index No.: 605-019-00-3<br>REACH No.:<br>01-2119462829-23 | <b>citral</b><br>Eye Irrit. 2 (H319), Skin Irrit. 2 (H315), Skin Sens. 1 (H317)<br>⚠ Warning | ≥ 0.05 - ≤ 0.1<br>Vol-% |

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Following inhalation:

A doctor must be consulted immediately. The person concerned shall be carried outside, away from the scene of the accident. If breathing stops, artificial respiration shall be given. The appropriate measures for the rescuer are to be taken.

#### In case of skin contact:

Soiled, soaked clothing must be taken off. One must take a shower immediately. A doctor must be consulted immediately.

#### After eye contact:

Any contact lenses must be removed. One must immediately and extensively wash with water for at least 30 / 60 minutes, opening the eyelids well. A doctor must be consulted immediately.

#### Following ingestion:

The largest possible amount of water must be administered. Vomiting must not be induced unless specifically ordered by the doctor.

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

There is no known specific information on symptoms and effects caused by this product.

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

Data not available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Carbon dioxide, Foam, Extinguishing powder, Water mist

#### Unsuitable extinguishing media:

No further details.

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

If overheated, there is a risk that aerosol containers will deform, burst and be hurled a considerable distance. Before approaching the fire, one must put on a protective helmet. Avoid inhalation of combustion products.

### 5.3. Advice for firefighters

#### General information

The containers shall be cooled with water jets to prevent the decomposition of the product and the formation of potentially harmful substances. Complete fire protective clothing must be worn at all times.

#### Personal protection equipment:

Normal firefighting clothing, e.g. an open-circuit compressed air respirator (EN 137) firefighting kit (EN469), firefighting gloves (EN 659) and firefighting boots (HO A 29 or A30)

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### SECTION 6: Accidental release measures

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

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

**Personal precautions:**

Any source of ignition (cigarettes, flames, sparks, etc.) or heat must be disposed of from the area where the product has been spilled. Remove persons without protective clothing from the site.

**Protective equipment:**

Wear protective gloves/protective clothing/eye protection/face protection.

##### 6.1.2. For emergency responders

No data available

#### 6.2. Environmental precautions

Discharge into the environment must be avoided.

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

**For cleaning up:**

Allow to be absorbed by absorbent material. Provide adequate ventilation.

**Other information:**

Contaminated material must be disposed of in accordance with the regulations under point 13.

#### 6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Protective measures**

**Advices on safe handling:**

Accumulation of electrostatic charges must be avoided.

**Fire prevent measures:**

It must not be sprayed into flames or onto glowing bodies.

**Measures to prevent aerosol and dust generation:**

Vapours can ignite with an explosion, so prevent accumulation by keeping doors and windows open with a draught.

**Advices on general occupational hygiene**

Do not eat, drink or smoke when using the product. Do not inhale aerosol.

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

**Technical measures and storage conditions:**

It must be kept in a well-ventilated area, away from direct sunlight, at temperatures below 50°C / 122°F and away from any source of combustion.

**Storage class (TRGS 510, Germany):** 2B – Aerosol dispensers and lighters

#### 7.3. Specific end use(s)

**Recommendation:**

Data not available.

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### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1. Occupational exposure limit values

| Limit value type (country of origin) | Substance name  | ① Long-term occupational exposure limit value<br>② Short-term occupational exposure limit value<br>③ Instantaneous value<br>④ Monitoring and observation processes<br>⑤ Remark |
|--------------------------------------|---|--|
| MAK (AT)                             | <b>propane</b><br>CAS No.: 74-98-6<br>EC No.: 200-827-9     | ② 2,000 ppm (3,600 mg/m <sup>3</sup> )<br>⑤ (max. 3x60 min./Schicht, Momentanwert)   |
| MAK (AT)                             | <b>propane</b><br>CAS No.: 74-98-6<br>EC No.: 200-827-9     | ① 1,000 ppm (1,800 mg/m <sup>3</sup> )   |
| MAK (AT)                             | <b>butane</b><br>CAS No.: 106-97-8<br>EC No.: 203-448-7     | ① 800 ppm (1,900 mg/m <sup>3</sup> )   |
| MAK (AT)                             | <b>butane</b><br>CAS No.: 106-97-8<br>EC No.: 203-448-7     | ② 1,600 ppm (3,800 mg/m <sup>3</sup> )<br>⑤ (max. 3x60 min./Schicht, Momentanwert)   |
| MAK (AT)                             | <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7 | ② 800 ppm (2,000 mg/m <sup>3</sup> )<br>⑤ (max. 4x15 min./Schicht)   |
| MAK (AT)                             | <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7 | ① 200 ppm (500 mg/m <sup>3</sup> )   |
| MAK (AT)                             | <b>isobutane</b><br>CAS No.: 75-28-5<br>EC No.: 200-857-2   | ② 1,600 ppm (3,800 mg/m <sup>3</sup> )<br>⑤ (max. 3x60 min./Schicht Momentanwert)  |
| MAK (AT)                             | <b>isobutane</b><br>CAS No.: 75-28-5<br>EC No.: 200-857-2   | ① 800 ppm (1,900 mg/m <sup>3</sup> )   |
| MAK (AT)                             | <b>Acetone</b><br>CAS No.: 67-64-1                          | ② 2,000 ppm (4,800 mg/m <sup>3</sup> )<br>⑤ (max. 4x15 min./Schicht)   |
| IOELV (EU)                           | <b>Acetone</b><br>CAS No.: 67-64-1                          | ① 500 ppm (1,210 mg/m <sup>3</sup> )   |
| MAK (AT)                             | <b>Acetone</b><br>CAS No.: 67-64-1                          | ① 500 ppm (1,200 mg/m <sup>3</sup> )   |

##### 8.1.2. Biological limit values

No data available

##### 8.1.3. DNEL-/PNEC-values

| Substance name  | DNEL value            | ① DNEL type<br>② Exposure route                               |
|---|-----------------------|---|
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7 | 500 mg/m <sup>3</sup> | ① DNEL worker<br>② Long-term - inhalation, systemic effects   |
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7 | 89 mg/m <sup>3</sup>  | ① DNEL Consumer<br>② Long-term - inhalation, systemic effects |
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7 | 888 mg/kg bw/<br>day  | ① DNEL worker<br>② Long-term - dermal, systemic effects       |
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7 | 319 mg/kg bw/<br>day  | ① DNEL Consumer<br>② Long-term - dermal, systemic effects     |

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| Substance name   | DNEL value               | ① DNEL type<br>② Exposure route                               |
|--|--------------------------|---|
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7              | 26 mg/kg bw/day          | ① DNEL Consumer<br>② Long-term - oral, systemic effects       |
| <b>Acetone</b><br>CAS No.: 67-64-1                                       | 1,210 mg/m <sup>3</sup>  | ① DNEL worker<br>② Long-term - inhalation, systemic effects   |
| <b>Acetone</b><br>CAS No.: 67-64-1                                       | 200 mg/m <sup>3</sup>    | ① DNEL Consumer<br>② Long-term - inhalation, systemic effects |
| <b>Acetone</b><br>CAS No.: 67-64-1                                       | 2,420 mg/m <sup>3</sup>  | ① DNEL worker<br>② Long-term - inhalation, local effects      |
| <b>Acetone</b><br>CAS No.: 67-64-1                                       | 186 mg/kg bw/day         | ① DNEL worker<br>② Long-term - dermal, systemic effects       |
| <b>Acetone</b><br>CAS No.: 67-64-1                                       | 62 mg/kg bw/day          | ① DNEL Consumer<br>② Long-term - dermal, systemic effects     |
| <b>Acetone</b><br>CAS No.: 67-64-1                                       | 62 mg/kg bw/day          | ① DNEL Consumer<br>② Long-term - oral, systemic effects       |
| <b>(R)-p-mentha-1,8-diene</b><br>CAS No.: 5989-27-5<br>EC No.: 227-813-5 | 33.3 mg/m <sup>3</sup>   | ① DNEL worker<br>② Long-term - inhalation, systemic effects   |
| <b>(R)-p-mentha-1,8-diene</b><br>CAS No.: 5989-27-5<br>EC No.: 227-813-5 | 8.3 mg/m <sup>3</sup>    | ① DNEL Consumer<br>② Long-term - inhalation, systemic effects |
| <b>(R)-p-mentha-1,8-diene</b><br>CAS No.: 5989-27-5<br>EC No.: 227-813-5 | 0.222 mg/kg              | ① DNEL worker<br>② Acute - dermal, local effects              |
| <b>(R)-p-mentha-1,8-diene</b><br>CAS No.: 5989-27-5<br>EC No.: 227-813-5 | 0.111 mg/kg              | ① DNEL Consumer<br>② Acute - dermal, local effects            |
| <b>(R)-p-mentha-1,8-diene</b><br>CAS No.: 5989-27-5<br>EC No.: 227-813-5 | 4.76 mg/kg               | ① DNEL Consumer<br>② Long-term - oral, systemic effects       |
| <b>Orange, sweet, extract</b><br>CAS No.: 8028-48-6<br>EC No.: 232-433-8 | 31.1 mg/m <sup>3</sup>   | ① DNEL worker<br>② Long-term - inhalation, systemic effects   |
| <b>Orange, sweet, extract</b><br>CAS No.: 8028-48-6<br>EC No.: 232-433-8 | 7.78 mg/m <sup>3</sup>   | ① DNEL worker<br>② Acute - inhalation, local effects          |
| <b>Orange, sweet, extract</b><br>CAS No.: 8028-48-6<br>EC No.: 232-433-8 | 8.89 mg/kg bw/day        | ① DNEL worker<br>② Long-term - dermal, systemic effects       |
| <b>Orange, sweet, extract</b><br>CAS No.: 8028-48-6<br>EC No.: 232-433-8 | 4.44 mg/kg bw/day        | ① DNEL Consumer<br>② Long-term - dermal, systemic effects     |
| <b>Orange, sweet, extract</b><br>CAS No.: 8028-48-6<br>EC No.: 232-433-8 | 0.929 mg/cm <sup>2</sup> | ① DNEL worker<br>② Acute - dermal, local effects              |

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| Substance name   | DNEL value           | ① DNEL type<br>② Exposure route                         |
|--|----------------------|---|
| <b>Orange, sweet, extract</b><br>CAS No.: 8028-48-6<br>EC No.: 232-433-8 | 4.44 mg/kg<br>bw/day | ① DNEL Consumer<br>② Long-term - oral, systemic effects |

| Substance name   | PNEC Value   | ① PNEC type                          |
|--|--------------|--------------------------------------|
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7              | 140.9 mg/L   | ① PNEC aquatic, freshwater           |
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7              | 140.9 mg/L   | ① PNEC aquatic, marine water         |
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7              | 2,251 mg/L   | ① PNEC sewage treatment plant        |
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7              | 552 mg/kg    | ① PNEC sediment, freshwater          |
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7              | 552 mg/kg    | ① PNEC sediment, marine water        |
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7              | 28 mg/kg     | ① PNEC soil                          |
| <b>propan-2-ol</b><br>CAS No.: 67-63-0<br>EC No.: 200-661-7              | 140.9 mg/L   | ① PNEC aquatic, intermittent release |
| <b>Acetone</b><br>CAS No.: 67-64-1                                       | 10.6 mg/L    | ① PNEC aquatic, freshwater           |
| <b>Acetone</b><br>CAS No.: 67-64-1                                       | 1.06 mg/L    | ① PNEC aquatic, marine water         |
| <b>Acetone</b><br>CAS No.: 67-64-1                                       | 100 mg/L     | ① PNEC sewage treatment plant        |
| <b>Acetone</b><br>CAS No.: 67-64-1                                       | 30.4 mg/L    | ① PNEC sediment, freshwater          |
| <b>Acetone</b><br>CAS No.: 67-64-1                                       | 3.04 mg/L    | ① PNEC sediment, marine water        |
| <b>Acetone</b><br>CAS No.: 67-64-1                                       | 29.5 mg/kg   | ① PNEC soil                          |
| <b>(R)-p-mentha-1,8-diene</b><br>CAS No.: 5989-27-5<br>EC No.: 227-813-5 | 0.0054 mg/L  | ① PNEC aquatic, freshwater           |
| <b>(R)-p-mentha-1,8-diene</b><br>CAS No.: 5989-27-5<br>EC No.: 227-813-5 | 0.00054 mg/L | ① PNEC aquatic, marine water         |
| <b>(R)-p-mentha-1,8-diene</b><br>CAS No.: 5989-27-5<br>EC No.: 227-813-5 | 1.8 mg/L     | ① PNEC sewage treatment plant        |
| <b>(R)-p-mentha-1,8-diene</b><br>CAS No.: 5989-27-5<br>EC No.: 227-813-5 | 1.32 mg/kg   | ① PNEC sediment, freshwater          |
| <b>(R)-p-mentha-1,8-diene</b><br>CAS No.: 5989-27-5<br>EC No.: 227-813-5 | 0.13 mg/kg   | ① PNEC sediment, marine water        |
| <b>(R)-p-mentha-1,8-diene</b><br>CAS No.: 5989-27-5<br>EC No.: 227-813-5 | 0.262 mg/kg  | ① PNEC soil                          |



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| Substance name   | PNEC Value   | ① PNEC type                          |
|--|--------------|--------------------------------------|
| <b>(R)-p-mentha-1,8-diene</b><br>CAS No.: 5989-27-5<br>EC No.: 227-813-5           | 3.33 mg/kg   | ① PNEC secondary poisoning           |
| <b>Orange, sweet, extract</b><br>CAS No.: 8028-48-6<br>EC No.: 232-433-8           | 5.4 mg/kg    | ① PNEC aquatic, freshwater           |
| <b>Orange, sweet, extract</b><br>CAS No.: 8028-48-6<br>EC No.: 232-433-8           | 0.54 mg/kg   | ① PNEC aquatic, marine water         |
| <b>Orange, sweet, extract</b><br>CAS No.: 8028-48-6<br>EC No.: 232-433-8           | 2.1 mg/kg    | ① PNEC sewage treatment plant        |
| <b>Orange, sweet, extract</b><br>CAS No.: 8028-48-6<br>EC No.: 232-433-8           | 1.3 mg/L     | ① PNEC sediment, freshwater          |
| <b>Orange, sweet, extract</b><br>CAS No.: 8028-48-6<br>EC No.: 232-433-8           | 0.13 mg/L    | ① PNEC sediment, marine water        |
| <b>Orange, sweet, extract</b><br>CAS No.: 8028-48-6<br>EC No.: 232-433-8           | 0.261 mg/kg  | ① PNEC soil                          |
| <b>Orange, sweet, extract</b><br>CAS No.: 8028-48-6<br>EC No.: 232-433-8           | 5.77 mg/L    | ① PNEC aquatic, intermittent release |
| <b>didecyldimethylammonium chloride</b><br>CAS No.: 7173-51-5<br>EC No.: 230-525-2 | 0.0011 mg/L  | ① PNEC aquatic, freshwater           |
| <b>didecyldimethylammonium chloride</b><br>CAS No.: 7173-51-5<br>EC No.: 230-525-2 | 0.00011 mg/L | ① PNEC aquatic, marine water         |
| <b>didecyldimethylammonium chloride</b><br>CAS No.: 7173-51-5<br>EC No.: 230-525-2 | 0.14 mg/L    | ① PNEC sewage treatment plant        |
| <b>didecyldimethylammonium chloride</b><br>CAS No.: 7173-51-5<br>EC No.: 230-525-2 | 61.86 mg/kg  | ① PNEC sediment, freshwater          |
| <b>didecyldimethylammonium chloride</b><br>CAS No.: 7173-51-5<br>EC No.: 230-525-2 | 6.186 mg/kg  | ① PNEC sediment, marine water        |
| <b>didecyldimethylammonium chloride</b><br>CAS No.: 7173-51-5<br>EC No.: 230-525-2 | 1.4 mg/kg    | ① PNEC soil                          |

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

No data available

### 8.2.2. Personal protection equipment

#### Eye/face protection:

The use of penetration-proof goggles is recommended (ref. standard EN 166).

#### Skin protection:

Work clothing with long sleeves and category III accident protection footwear must be worn (see Regulation 2016/425 and standard EN ISO 20344). After taking off the protective clothing, one must wash with soap and water.

#### Respiratory protection:

If the threshold value (e.g. TLV-TWA) of the substance or one or more substances contained in the product is exceeded, it is recommended to wear a mask with filter type AX in combination with a filter type P (ref. standard EN 14387).

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If the technical measures taken are not sufficient to reduce the exposure of the worker to the thresholds considered, the use of respiratory protective devices is necessary. The protection provided by the mask is limited in any case.

NACHPRÜFUNGEN DER UMWELTAUSSETZUNG. Emissions from manufacturing processes, including those from ventilation equipment, should be checked for compliance with environmental legislation.

### Other protection measures:

Considering that appropriate protective measures should always take precedence over personal protective clothing, ensure that the workplace is well ventilated by effective local exhaust ventilation. For the selection of personal protective equipment, the trusted chemical manufacturers may need to be consulted. The personal protective equipment must be CE marked to indicate its suitability for the applicable regulations.

Emergency stop showers with face-eye-rinsing are to be provided.

### 8.2.3. Environmental exposure controls

Emissions from manufacturing processes, including those from ventilation equipment, should be checked for compliance with environmental legislation.

## SECTION 9: Physical and chemical properties

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

#### Appearance

Physical state: Aerosol

Colour: colourless

Odour: characteristic

#### Safety relevant basis data

| Parameter                                    | Value                    | at °C | ① Method<br>② Remark  |
|--|--------------------------|-------|---|
| pH   | <i>not applicable</i>    |       | ② Reason for missing data: the substance/<br>mixture is non-polar/aprotic |
| Initial boiling point and boiling range      | <i>not applicable</i>    |       |   |
| Flash point                                  | <i>not applicable</i>    |       |   |
| Evaporation rate                             | <i>No data available</i> |       |   |
| Upper/lower flammability or explosive limits | <i>No data available</i> |       |   |
| Vapour pressure                              | <i>No data available</i> |       |   |
| Density                                      | 0.605 kg/L               | 20 °C | ① ASTM D 1298   |
| Bulk density                                 | <i>not applicable</i>    |       |   |
| Water solubility                             | miscible                 | 20 °C |   |

#### particle characteristics:

not applicable

### 9.2. Other information

#### 9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU): 98,90% - 598,35 g/l

VOC (volatile carbon): 65,48% - 396,14 g/l

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No special reaction hazards with other substances under normal conditions of use.

Acetone

Decomposes under the influence of heat.

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### 10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

(R)-p-mentha-1,8-diene

Chemically stable under conditions of storage, handling and use.

### 10.3. Possibility of hazardous reactions

Under normal conditions of use and storage, no hazardous reactions are foreseen.

Acetone

Explosion hazard in contact with: Bromine trifluoride, dioxygen difluoride, hydrogen peroxide, nitrosyl chloride, 2-methylbuta-1,3-diene, nitromethane, nitrosyl perchlorate. May react dangerously with: Potassium tert-butanolate, alkaline hydroxides, bromine, bromoform, isoprene, sodium, sulphur dioxide, chromium trioxide, chromium (VI) oxide dichloride, nitric acid, chloroform, peroxomonosulphuric acid, phosphorus oxychloride, chromosulphuric acid, fluorine, strong oxidising agents, strong reducing agents. Develops flammable gases on contact with: Nitrosylperchlorat

(R)-P-MENTHADIEN-1,8

May react dangerously with: Strong oxidising agents, mineral acids

### 10.4. Conditions to avoid

Avoid heating.

Acetone

Avoid exposure to: Heat sources, open flames

(R)-P-MENTHADIEN-1,8

Avoid exposure to: Heat, open flames, electrostatic discharges

### 10.5. Incompatible materials

Strong reducing and oxidising agents, strong bases and acids, materials at high temperatures.

Acetone

Incompatible with: Acids, Oxidising substances

(R)-P-MENTHADIEN-1,8

Incompatible with: Strong acid, Oxidizing agent

### 10.6. Hazardous decomposition products

Acetone

Can develop: Ketene, irritants

(R)-P-MENTHADIEN-1,8

Developed during decay: Carbon dioxide, Nitric oxide

## SECTION 11: Toxicological information

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

#### Toxicological information

| Acute Toxicity Estimate for Mixtures  |
|---|
| <b>ATE (oral):</b> >2,000 mg/kg   |
| <b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9                             |
| <b>LD<sub>50</sub> oral:</b> 5,840 mg/kg (Rat)                                |
| <b>LD<sub>50</sub> dermal:</b> 13,900 mg/kg (Rabbit)                          |
| <b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> >25 ppmV 4 h (Rat)    |
| <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> ≥50 mg/L 4 h (Rat) |

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|  |
|--|
| <b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7  |
| <b>LD<sub>50</sub> oral:</b> ≥5,000 mg/kg (Rat)  |
| <b>LD<sub>50</sub> dermal:</b> ≥5,000 mg/kg (Rabbit)   |
| <b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> 658 ppmV 4 h (Rat)   |
| <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> ≥50 mg/L 4 h (Rat)  |
| <b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7  |
| <b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Rat)  |
| <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Rat)  |
| <b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> >25 ppmV (Rat)   |
| <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >20 mg/L (Rat)  |
| <b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2  |
| <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> 52,000 mg/L 2 h (Rat)   |
| <b>Acetone</b> CAS No.: 67-64-1  |
| <b>LD<sub>50</sub> oral:</b> ≥5,000 mg/kg (Rat)  |
| <b>LD<sub>50</sub> dermal:</b> >20 mg/kg (Rat)   |
| <b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> >20 ppmV 4 h (Rat)   |
| <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >50 mg/L 4 h (Rat)  |
| <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 76 mg/L 4 h (Rat)  |
| <b>(R)-p-mentha-1,8-diene</b> CAS No.: 5989-27-5 EC No.: 227-813-5   |
| <b>LD<sub>50</sub> oral:</b> >2,000 mg/kg (Rat)  |
| <b>LD<sub>50</sub> dermal:</b> >5,000 mg/kg (Rabbit)   |
| <b>Rectified Hydrocarbons by- products from synthetic process of Turpentine and acid, alcohols fraction</b><br>EC No.: 949-141-8 |
| <b>LD<sub>50</sub> oral:</b> 3,200 mg/kg (Rat)   |
| <b>LD<sub>50</sub> dermal:</b> 5,000 mg/kg (Rabbit)  |
| <b>Orange, sweet, extract</b> CAS No.: 8028-48-6 EC No.: 232-433-8   |
| <b>LD<sub>50</sub> oral:</b> 200 mg/kg (Rat)   |
| <b>LD<sub>50</sub> dermal:</b> >5,000 mg/kg (Rat)  |
| <b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 500 mg/L 4 h (Rat)   |
| <b>didecyldimethylammonium chloride</b> CAS No.: 7173-51-5 EC No.: 230-525-2   |
| <b>LD<sub>50</sub> dermal:</b> 3,342 mg/kg (Rabbit)  |
| <b>(S)-p-mentha-1,8-diene</b> CAS No.: 5989-54-8 EC No.: 227-815-6   |
| <b>LD<sub>50</sub> oral:</b> >2,000 mg/kg  |
| <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg  |
| <b>citral</b> CAS No.: 5392-40-5 EC No.: 226-394-6   |
| <b>LD<sub>50</sub> oral:</b> 4,960 mg/kg (Rat)   |
| <b>LD<sub>50</sub> dermal:</b> 2,250 mg/kg (Rabbit)  |

### Acute dermal toxicity:

Not classified (No relevant ingredient)

### Acute inhalation toxicity:

Not classified (No relevant ingredient)

### Skin corrosion/irritation:

Repeated exposure may cause skin dryness or cracking.

### Serious eye damage/irritation:

Causes serious eye irritation.

### Respiratory or skin sensitisation:

Sensitising to the skin

### Germ cell mutagenicity:

Does not fall under the classification criteria of this hazard class

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### Carcinogenicity:

Does not fall under the classification criteria of this hazard class

### Reproductive toxicity:

Does not fall under the classification criteria of this hazard class

### STOT-single exposure:

May cause drowsiness or dizziness.

### STOT-repeated exposure:

Does not fall under the classification criteria of this hazard class

### Aspiration hazard:

Does not fall under the classification criteria of this hazard class

## 11.2. Information on other hazards

### Endocrine disrupting properties:

According to the available data, the product does not contain any substances included in the main European lists of potential or suspected endocrine disruptors with effects on human health to be assessed.

## SECTION 12: Ecological information

### 12.1. Toxicity

|   |
|---|
| <b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9                               |
| LC <sub>50</sub> : 9,640 mg/L 4 d (fish, Pimephales promelas)                   |
| LC <sub>50</sub> : 0.41 mg/L 4 d (fish, Oncorhynchus mykiss)                    |
| LC <sub>50</sub> : 49.9 mg/L 4 d (fish)   |
| EC <sub>50</sub> : >100 mg/L (Algae/water plant, Bacteria)                      |
| EC <sub>50</sub> : 0.17 mg/L 3 d (Algae/water plant, Selenastrum capricornutum) |
| EC <sub>50</sub> : 69.43 mg/L 2 d (crustaceans, Daphnia)                        |
| NOEC: 0.017 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)       |
| ErC <sub>50</sub> : 19.37 mg/L 4 d (Algae/water plant)                          |
| LOEC: 1,000 mg/L (Algae/water plant, Algae)                                     |
| LOEC: 1,000 mg/L (Algae/water plant, Alge)                                      |
| <b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7                               |
| LC <sub>50</sub> : 49.9 mg/L 4 d (fish)   |
| EC <sub>50</sub> : 69.43 mg/L 2 d (crustaceans, Daphnia)                        |
| ErC <sub>50</sub> : 19.37 mg/L 4 d (Algae/water plant)                          |
| <b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7                           |
| LC <sub>50</sub> : 9,640 mg/L 4 d (fish, Pimephales promelas)                   |
| LC <sub>50</sub> : >1,000 mg/L 4 d (fish)                                       |
| EC <sub>50</sub> : >100 mg/L (Algae/water plant)                                |
| EC <sub>50</sub> : >100 mg/L 2 d (crustaceans, Daphnia magna)                   |
| EC <sub>50</sub> : >1,000 mg/L 2 d (crustaceans)                                |
| ErC <sub>50</sub> : >100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus)  |
| LOEC: 1,000 mg/L (Algae/water plant, Algae)                                     |
| LC <sub>50</sub> : 8,970 mg/L 2 d (fish, Leuciscus idus (golden orfe))          |
| <b>Acetone</b> CAS No.: 67-64-1   |
| LC <sub>50</sub> : 8,300 mg/L 4 d   |
| LC <sub>50</sub> : 5,540 mg/L 4 d (fish, Oncorhynchus mykiss)                   |
| LC <sub>50</sub> : 4,042 mg/L (fish)  |
| EC <sub>50</sub> : 8,800 mg/L 2 d (crustaceans, Daphnia magna)                  |
| EC <sub>50</sub> : 8,300 mg/L (fish)  |
| EC <sub>50</sub> : 302 mg/L 4 d (Algae/water plant)                             |
| NOEC: 2,212 mg/L (crustaceans, Daphnia pulex)                                   |

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|   |
|---|
| <b>(R)-p-mentha-1,8-diene</b> CAS No.: 5989-27-5 EC No.: 227-813-5                          |
| <b>LC<sub>50</sub></b> : 0.72 mg/L 4 d (fish, Pimephales promelas)                          |
| <b>EC<sub>50</sub></b> : 0.307 mg/L 2 d (crustaceans, Daphnia magna)                        |
| <b>EC<sub>50</sub></b> : 0.32 mg/L (Algae/water plant, Pseudokirchneriella subcapitata)     |
| <b>ErC<sub>50</sub></b> : 150 mg/L 3 d (Algae/water plant, Desmodemus subspicatus)          |
| <b>Orange, sweet, extract</b> CAS No.: 8028-48-6 EC No.: 232-433-8                          |
| <b>LC<sub>50</sub></b> : 0.7 mg/L 4 d (fish, Pimephales promelas) OECD 203                  |
| <b>EC<sub>50</sub></b> : 0.67 mg/L 2 d (crustaceans, Daphnia magna) OECD 202                |
| <b>NOEC</b> : 72 - 83.4 mg/L 28 d OECD 301 B  |
| <b>ErC<sub>50</sub></b> : 150 mg/L 3 d (Algae/water plant, Desmodemus subspicatus) OECD 201 |
| <b>didcyldimethylammonium chloride</b> CAS No.: 7173-51-5 EC No.: 230-525-2                 |
| <b>LC<sub>50</sub></b> : 0.19 mg/L 4 d (fish, Pimephales promelas)                          |
| <b>EC<sub>50</sub></b> : 0.062 mg/L 2 d (crustaceans, Daphnia)                              |
| <b>NOEC</b> : 0.01 mg/L (crustaceans, Daphnia magna)  |
| <b>NOEC</b> : 0.032 mg/L (fish, Danio rerio)  |
| <b>citral</b> CAS No.: 5392-40-5 EC No.: 226-394-6  |
| <b>LC<sub>50</sub></b> : 6.78 mg/L 4 d (fish, Leuciscus idus)                               |
| <b>EC<sub>50</sub></b> : 6.8 mg/L 2 d (crustaceans, Daphnia magna)                          |
| <b>EC<sub>50</sub></b> : 103.8 mg/L 3 d (Algae/water plant, Desmodemus subspicatus)         |

### Additional ecotoxicological information:

Use in accordance with good working practices and ensure that the product does not enter the environment. Notify the relevant authorities if the product has entered water courses or if the product has contaminated the soil or vegetation.

### 12.2. Persistence and degradability

|   |
|---|
| <b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9                           |
| <b>Biodegradation:</b> Yes, rapidly   |
| <b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7                           |
| <b>Biodegradation:</b> Yes, rapidly   |
| <b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7                       |
| <b>Biodegradation:</b> Yes, rapidly   |
| <b>Remark:</b> Readily biodegradable (according to OECD criteria).          |
| <b>Acetone</b> CAS No.: 67-64-1   |
| <b>Biodegradation:</b> Yes, rapidly   |
| <b>(R)-p-mentha-1,8-diene</b> CAS No.: 5989-27-5 EC No.: 227-813-5          |
| <b>Biodegradation:</b> Yes, rapidly   |
| <b>Orange, sweet, extract</b> CAS No.: 8028-48-6 EC No.: 232-433-8          |
| <b>Biodegradation:</b> Yes, rapidly   |
| <b>didcyldimethylammonium chloride</b> CAS No.: 7173-51-5 EC No.: 230-525-2 |
| <b>Biodegradation:</b> Yes, rapidly   |
| <b>citral</b> CAS No.: 5392-40-5 EC No.: 226-394-6                          |
| <b>Biodegradation:</b> Yes, rapidly   |

### 12.3. Bioaccumulative potential

|   |
|---|
| <b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9     |
| <b>Log K<sub>OW</sub></b> : 1.09                      |
| <b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7     |
| <b>Log K<sub>OW</sub></b> : 1.09                      |
| <b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7 |
| <b>Log K<sub>OW</sub></b> : 0.05                      |

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|  |
|--|
| <b>Acetone</b> CAS No.: 67-64-1  |
| <b>Log K<sub>OW</sub></b> : -0.23  |
| <b>Bioconcentration factor (BCF)</b> : 3                                     |
| <b>(R)-p-mentha-1,8-diene</b> CAS No.: 5989-27-5 EC No.: 227-813-5           |
| <b>Log K<sub>OW</sub></b> : 4.83   |
| <b>Bioconcentration factor (BCF)</b> : 660                                   |
| <b>Orange, sweet, extract</b> CAS No.: 8028-48-6 EC No.: 232-433-8           |
| <b>Log K<sub>OW</sub></b> : > 4  |
| <b>didecyldimethylammonium chloride</b> CAS No.: 7173-51-5 EC No.: 230-525-2 |
| <b>Bioconcentration factor (BCF)</b> : 81                                    |
| <b>citral</b> CAS No.: 5392-40-5 EC No.: 226-394-6                           |
| <b>Bioconcentration factor (BCF)</b> : 89.72                                 |

### 12.4. Mobility in soil

Classification factor: soil / water 17

### 12.5. Results of PBT and vPvB assessment

|  |
|--|
| <b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9  |
| <b>Results of PBT and vPvB assessment:</b> —   |
| <b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7  |
| <b>Results of PBT and vPvB assessment:</b> —   |
| <b>propan-2-ol</b> CAS No.: 67-63-0 EC No.: 200-661-7  |
| <b>Results of PBT and vPvB assessment:</b> —   |
| <b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2  |
| <b>Results of PBT and vPvB assessment:</b> —   |
| <b>Acetone</b> CAS No.: 67-64-1  |
| <b>Results of PBT and vPvB assessment:</b> —   |
| <b>(R)-p-mentha-1,8-diene</b> CAS No.: 5989-27-5 EC No.: 227-813-5   |
| <b>Results of PBT and vPvB assessment:</b> —   |
| <b>Rectified Hydrocarbons by- products from synthetic process of Turpentine and acid, alcohols fraction</b><br>EC No.: 949-141-8 |
| <b>Results of PBT and vPvB assessment:</b> —   |
| <b>Orange, sweet, extract</b> CAS No.: 8028-48-6 EC No.: 232-433-8   |
| <b>Results of PBT and vPvB assessment:</b> —   |
| <b>didecyldimethylammonium chloride</b> CAS No.: 7173-51-5 EC No.: 230-525-2   |
| <b>Results of PBT and vPvB assessment:</b> —   |
| <b>(S)-p-mentha-1,8-diene</b> CAS No.: 5989-54-8 EC No.: 227-815-6   |
| <b>Results of PBT and vPvB assessment:</b> —   |
| <b>Cubeb root (Litsea cubeba) fruit oil</b> CAS No.: 68855-99-2 EC No.: 290-018-7  |
| <b>Results of PBT and vPvB assessment:</b> —   |
| <b>citral</b> CAS No.: 5392-40-5 EC No.: 226-394-6   |
| <b>Results of PBT and vPvB assessment:</b> —   |

Based on the available information, the product does not contain any PBT or vPvB substances in content percentages  $\geq 0.1\%$ .

### 12.6. Endocrine disrupting properties

According to the available data, the product does not contain any substances included in the main European lists of potential or suspected endocrine disruptors with effects on human health to be assessed.

### 12.7. Other adverse effects

Data not available.

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Reuse if possible. Product residues are to be considered as hazardous waste. The hazardousness of the waste partially containing this product must be evaluated on the basis of the legal provisions in force. Disposal must be entrusted to a company authorised for waste management, taking into account national and, where applicable, local regulations.




The transport of the waste may be subject to ADR.

#### Waste treatment options

##### Appropriate disposal / Package:

Contaminated packaging material must be sent for recycling or disposal in accordance with the country's waste management regulations.

### SECTION 14: Transport information

| Land transport (ADR/RID)   | Inland waterway craft (ADN)                                | Sea transport (IMDG)   | Air transport (ICAO-TI / IATA-DGR)  |
|--|--|--|---|
| <b>14.1. UN number or ID number</b>  |  |  |   |
| UN 1950  | No dangerous good in sense of these transport regulations. | UN 1950  | UN 1950   |
| <b>14.2. UN proper shipping name</b>   |  |  |   |
| AEROSOLS   | No dangerous good in sense of these transport regulations. | AEROSOLS   | AEROSOLS, FLAMMABLE   |
| <b>14.3. Transport hazard class(es)</b>  |  |  |   |
| <br>2.1                         | not relevant   | <br>2.1 | <br>2.1  |
| <b>14.4. Packing group</b>   |  |  |   |
|  | not relevant   | -  |   |
| <b>14.5. Environmental hazards</b>   |  |  |   |
| No data available  | not relevant   | No data available  | No data available   |
| <b>14.6. Special precautions for user</b>  |  |  |   |
| <b>Limited quantity (LQ):</b><br>1 L<br><b>Classification code:</b><br>-<br><b>Tunnel restriction code:</b><br>(D) | not relevant   | <b>Limited quantity (LQ):</b><br>1 L<br><b>EmS-No.:</b><br>F-D, S-U                        | <b>Special Provisions:</b><br>Cargo: Höchstmenge 150 Kg, Packaging details 203;<br><br>Pass.: Höchstmenge 75 Kg, Packaging details 203;<br><br>Special provision: A145, A167, A802; |

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

Information not applicable.

### SECTION 15: Regulatory information

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

##### 15.1.1. EU legislation

##### Other regulations (EU):

Hazard categories:

- P3a 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids



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Named dangerous substances:

- Liquefied flammable gases, Category 1 or 2 (including liquefied petroleum gas) and natural gas

Restrictions on the product or substances according to Annex XVII Regulation (EC) 1907/2006

Product - point 40

Substances contained - point 75

Regulation (EU) No 2019/1148 (marketing and use of explosives precursors)

Regulated explosives precursor The acquisition, transfer, possession or use of the regulated explosives precursor in question by members of the general public is subject to reporting requirements under Article 9. All suspicious transactions and significant disappearances and thefts must be reported to the relevant national contact point.

Preventive medical check-ups

No precautionary examinations are required when working with this product. This is only on condition that the results of the risk assessment prove that there is only a moderate risk to the safety and health of workers and that the measures provided for by Directive 98/24/EC are sufficient to limit the risk.

### 15.1.2. National regulations

No data available

### 15.2. Chemical Safety Assessment

A safety-relevant chemical assessment was carried out on the substances listed below and contained therein.

PROPANE

BUTANE

ISOBUTANE

ACETONE

(R)-P-MENTHADIEN-1,8

didecyldimethylammonium chloride

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

|                  |   |
|------------------|---|
| ACGIH            | American Conference of Governmental Industrial Hygienists                           |
| ADR              | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ASTM             | American Society for Testing and Materials  |
| BCF              | Bioconcentration Factor   |
| CAS              | Chemical Abstracts Service  |
| CLP              | Classification, Labelling and Packaging   |
| DNEL             | derived no-effect level   |
| EC <sub>50</sub> | Effective Concentration 50%   |
| EN               | European Standard   |
| ES               | Exposure scenario   |
| ICAO             | International Civil Aviation Organization   |
| IMDG             | International Maritime Dangerous Goods  |
| IMO              | International Maritime Organization   |
| ISO              | International Standards Organisation  |
| KG               | body weight   |
| LC <sub>50</sub> | Lethal (fatal) Concentration 50%  |
| LD <sub>50</sub> | Lethal (fatal) Dose 50%   |
| MAK              | Maximum concentration in the workplace air (CH)                                     |
| NFPA             | National Fire Protection Association  |
| NIOSH            | National Institute for Occupational Safety & Health                                 |
| NOEC             | No Observed Effect Concentration  |
| OEL              | Threshold Limit Value   |
| OSHA             | Occupational Safety & Health Administration   |
| PBT              | persistent and bioaccumulative and toxic  |
| PNEC             | Predicted No Effect Concentration   |

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REACH Registration, Evaluation and Authorization of Chemicals  
RID Dangerous goods regulations for transport by rail  
TRGS Technische Regeln für Gefahrstoffe  
UN United Nations  
VOC Volatile organic compounds  
ZNS central nervous system

### 16.3. Key literature references and sources for data

No data available

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

| Hazard classes and hazard categories                       | Hazard statements  | Classification procedure |
|--|--|--------------------------|
| Aerosols ( <i>Aerosol 1</i> )                              | H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated. |                          |
| Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )  | H319: Causes serious eye irritation.   |                          |
| Respiratory or skin sensitisation ( <i>Skin Sens. 1B</i> ) | H317: May cause an allergic skin reaction.   |                          |
| STOT-single exposure ( <i>STOT SE 3</i> )                  | H336: May cause drowsiness or dizziness.   |                          |

### 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

| Hazard statements |   |
|-------------------|---|
| H220              | Extremely flammable gas.                              |
| H225              | Highly flammable liquid and vapour.                   |
| H226              | Flammable liquid and vapour.                          |
| H280              | Contains gas under pressure; may explode if heated.   |
| H301              | Toxic if swallowed.                                   |
| H304              | May be fatal if swallowed and enters airways.         |
| 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.                        |
| H336              | May cause drowsiness or dizziness.                    |
| 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.    |

| Supplemental hazard information |   |
|---------------------------------|---|
| EUH066                          | Repeated exposure may cause skin dryness or cracking. |

### 16.6. Training advice

No data available

### 16.7. Additional information

No data available