

# SAFETY DATA SHEET

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

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## Wasp Ex 750ml

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

#### \* 1.1. Product identifier

Trade name/designation:

Wasp Ex 750ml

Article No.:

T478075

UFI:

Q6Y4-E5SA-DK65-AK8R

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

Use of the substance/mixture:

Biocide

#### 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 |
|--|--|--------------------------|
| aerosol dispensers and lighters<br>( <i>Aerosol 1</i> )              | H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated. | On basis of test data.   |
| Aspiration hazard ( <i>Asp. Tox. 1</i> )                             | H304: May be fatal if swallowed and enters airways.                                  | Calculation method.      |
| STOT-single exposure ( <i>STOT SE 3</i> )                            | H336: May cause drowsiness or dizziness.   | Calculation method.      |
| Hazardous to the aquatic environment<br>( <i>Aquatic Acute 1</i> )   | H400: Very toxic to aquatic life.  | Calculation method.      |
| Hazardous to the aquatic environment<br>( <i>Aquatic Chronic 1</i> ) | H410: Very toxic to aquatic life with long lasting effects.                          | Calculation method.      |

#### Additional information:

Pressurised container: May burst if heated. Extremely flammable aerosol. May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects.

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### \* 2.2. Label elements

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

Hazard pictograms:



**GHS09**

Environment



**GHS07**

Exclamation mark



**GHS02**

Flame

**Signal word:** Danger

**Hazard components for labelling:**

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics

#### Hazard statements for physical hazards

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

#### Hazard statements for health hazards

|      |                                    |
|------|------------------------------------|
| H336 | May cause drowsiness or dizziness. |
|------|------------------------------------|

#### Hazard statements for environmental hazards

|      |   |
|------|---|
| H410 | Very toxic to aquatic life with long lasting effects. |
|------|---|

#### Supplemental hazard information

|        |  |
|--------|--|
| EUH066 | Repeated exposure may cause skin dryness or cracking.  |
| EUH208 | Contains Permethrin. May produce an allergic reaction. |

#### 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.   |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray.   |
| P271 | Use only outdoors or in a well-ventilated area.  |
| P273 | Avoid release to the environment.  |

#### Precautionary statements Response

|      |                   |
|------|-------------------|
| P391 | Collect spillage. |
|------|-------------------|

#### Precautionary statements Storage

|             |  |
|-------------|--|
| P403        | Store in a well-ventilated place.  |
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. |

**Additional information:**

Use only for the purposes for which the product is intended. Restricted to professional users.

Contains: CAS 52645-53-1: 0,12 % m/m, CAS 1166-46-7: 0,24 % m/m, CAS 51-03-6: 0,72 % m/m; TP 18;

### \* 2.3. Other hazards

**Other adverse effects:**

Contains no PBT/vPvB substances  $\geq 0.1\%$ , assessed according to REACH Annex XIII. The product does not contain any substances with endocrine-disrupting properties in concentrations of  $\geq 0.1\%$ .

## SECTION 3: Composition/information on ingredients

### \* 3.2. Mixtures

**Additional information:**

Produkt unterliegt CLP Artikel 1.1.3.7. Die Offenlegungsregeln der Komponenten werden in diesem Fall geändert.

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### Hazardous ingredients / Hazardous impurities / Stabilisers:

| Product identifiers   | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP]  | Concentration  |
|---|---|----------------|
| EC No.: 919-857-5<br>REACH No.:<br>01-2119463258-33   | <b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, &lt;2% aromatics</b><br>Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), STOT SE 3 (H336)<br>Danger<br><b>Acute Toxicity Estimate</b><br>ATE (oral) 5,000 mg/kg<br>ATE (dermal) 2,000 mg/kg<br>ATE (inhalation, vapour) 4.951 mg/L<br>ATE (inhalation, dust/mist) 5.6 mg/L<br><b>Additional information:</b> EUH066; Substance with national occupational exposure limit (FR) | 30 - 40<br>%   |
| 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 (with &lt; 0,1 % butadiene (203-450-8))</b><br>Flam. Gas 1 (H220), Press. Gas<br>Danger<br><b>Acute Toxicity Estimate</b><br>ATE (oral) ≥ 5,000 mg/kg<br>ATE (dermal) ≥ 5,000 mg/kg<br>ATE (inhalation, gases) 658 ppmV<br>ATE (inhalation, vapour) ≥ 50 mg/L   | 30 - 40<br>%   |
| 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 (Comp.) (H280)<br>Danger<br><b>Acute Toxicity Estimate</b><br>ATE (oral) 5,840 mg/kg<br>ATE (dermal) 13,900 mg/kg<br>ATE (inhalation, gases) > 25 ppmV<br>ATE (inhalation, vapour) ≥ 50 mg/L  | 10 - 20<br>%   |
| CAS No.: 75-28-5<br>EC No.: 200-857-2<br>Index No.: 601-004-00-0<br>REACH No.:<br>01-2119485395-27  | <b>Isobutane (contains &lt; 0.1% butadiene (203-450-8))</b><br>Flam. Gas 1A (H220), Press. Gas (Liq.) (H280)<br>Danger<br><b>Additional information:</b> Notes C, U   | 10 - 20<br>%   |
| CAS No.: 51-03-6<br>EC No.: 200-076-7<br>Index No.: 604-096-00-0<br>REACH No.:<br>01-2119537431-46  | <b>2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether</b><br>Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Irrit. 2 (H319), STOT SE 3 (H335)<br>Warning EUH066<br>M-factor (acute): 1 M-factor (chronic): 1<br><b>Additional information:</b> EUH066   | 0.5 - 1<br>%   |
| CAS No.: 52645-53-1<br>EC No.: 258-067-9<br>Index No.: 613-058-00-2                                 | <b>Permethrin</b><br>Acute Tox. 4 (H332, H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Skin Sens. 1 (H317)<br>Warning<br>M-factor (acute): 1,000 M-factor (chronic): 1,000<br><b>Acute Toxicity Estimate</b><br>ATE (oral) 664 mg/kg<br>ATE (dermal) > 2,000 mg/kg<br>ATE (inhalation, vapour) > 4.638 mg/L  | 0.1 - 0.5<br>% |
| CAS No.: 1166-46-7<br>EC No.: 214-619-0<br>Index No.: 607-728-00-3                                  | <b>(1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)methyl (1R-trans)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate</b><br>Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Carc. 2 (H351), STOT SE 2 (H371)<br>Warning<br>M-factor (acute): 100 M-factor (chronic): 100<br><b>Acute Toxicity Estimate</b><br>ATE (oral) 500 mg/kg   | 0.1 - 0.5<br>% |

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

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### SECTION 4: First aid measures

#### \* 4.1. Description of first aid measures

**General information:**

Call a doctor if you feel unwell.

**Following inhalation:**

Remove person to fresh air and keep comfortable for breathing. In case of respiratory tract irritation, consult a physician.

**In case of skin contact:**

After contact with skin, wash immediately with plenty of water and soap. In case of skin irritation, consult a physician.

**After eye contact:**

Rinse opened eye for several minutes under running water. Consult a doctor if symptoms persist

**Following ingestion:**

Rinse mouth. Do NOT induce vomiting. Get immediate medical advice/attention. Allow the affected person to rest.

**Self-protection of the first aider:**

Use personal protection equipment.

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

May cause drowsiness or dizziness. Repeated exposure may cause skin dryness or cracking. Pulmonary oedema

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

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media:**

Water spray jet, Dry extinguishing powder, Foam, Carbon dioxide (CO<sub>2</sub>)

**Unsuitable extinguishing media:**

Full water jet

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

Extremely flammable aerosol. Pressurized container: May burst if heated. Fight the fire from a protected location at a safe distance. Do not enter the fire area without adequate protective equipment, including respiratory protection. Never give anything orally to an unconscious person. If you feel unwell, seek medical advice (show this label if possible).

**Hazardous combustion products:**

Possible release of toxic fumes.

#### \* 5.3. Advice for firefighters

Do not attempt to operate without suitable protective equipment. Wear self-contained breathing apparatus. Full protective clothing.

### SECTION 6: Accidental release measures

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

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

**Personal precautions:**

General information Stop leak if safe to do so. If the product enters the sewage system or public waters, the authorities must be informed. Absorb spillage to prevent material damage. Ventilate affected area. Keep away from sources of ignition - No smoking. Provide adequate ventilation as well as local exhaust at critical locations. Take precautionary measures against static discharge.

**Protective equipment:**

Use personal protection equipment.

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### Emergency procedures:

Ventilate affected area. No open fire, no sparks and no smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not touch spilled material and do not walk through it. Evacuate area.

### 6.1.2. For emergency responders

#### Personal protection equipment:

Do not attempt to operate without suitable protective equipment. For further information on personal protective equipment: see section 8. Evacuate uninvolved persons. Stop leak if safe to do so. Ensure good ventilation/extraction at the workplace. Do not breathe dust/fume/gas/mist/vapours/spray.

### 6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter into surface water or drains. If the product enters the sewage system or public waters, the authorities must be informed.

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

#### For containment:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Contain the leaking liquid or absorb it with liquid-binding material to prevent it from entering the sewerage system or watercourses. Stop the spill if it can be done safely.

#### For cleaning up:

Take up mechanically. Clear spills immediately. Soak up spilled product using sand or neutral absorbent material and take to a safe place. Do not absorb with sawdust or other flammable absorbents.

#### Other information:

Feed substances or residues in solid form to an approved facility.

### \* 6.4. Reference to other sections

Disposal: see section 13

## SECTION 7: Handling and storage

### \* 7.1. Precautions for safe handling

#### Protective measures

##### Advices on safe handling:

Wear personal protection equipment (refer to section 8). No significant hazard to be expected under normal conditions of use. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear suitable protective clothing when working. Use only for the purposes for which the product is intended. Pressurised container: May burst if heated.

##### Advices on general occupational hygiene

When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Wash hands before breaks and after work.

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

#### Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. Suitable earthing methods should be used to avoid static electricity. All tools must be earthed.

#### Requirements for storage rooms and vessels:

Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Store in a well-ventilated place. Keep container tightly closed. Keep away from sources of ignition - No smoking. To minimise the risk of tipping over, the product should be stored close to the floor. If the products are stacked, you should ensure that they do not tip over (risk of leakage due to compression). Keep/Store only in original container.

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

### 7.3. Specific end use(s)

No data available

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### SECTION 8: Exposure controls/personal protection

#### \* 8.1. Control parameters

##### 8.1.1. Occupational exposure limit values

No data available

##### 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                           |
|---|-------------------------|---|
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics<br>EC No.: 919-857-5 | 1,500 mg/m <sup>3</sup> | ① DNEL worker<br>② Acute - inhalation, systemic effects   |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics<br>EC No.: 919-857-5 | 900 mg/m <sup>3</sup>   | ① DNEL Consumer<br>② Acute - inhalation, systemic effects |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics<br>EC No.: 919-857-5 | 300 mg/kg bw/day        | ① DNEL worker<br>② Acute - dermal, systemic effects       |
| Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics<br>EC No.: 919-857-5 | 300 mg/kg bw/day        | ① DNEL worker<br>② Acute - oral, systemic effects         |

#### \* 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

No data available

##### 8.2.2. Personal protection equipment



##### Eye/face protection:

Eye glasses with side protection EN 166

##### Skin protection:

Hand protection:

Wear protective gloves. The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.

NBR (Nitrile rubber), Breakthrough time: 6 (>480 min), EN ISO 374

##### Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

##### 8.2.3. Environmental exposure controls

Avoid release to the environment.

### SECTION 9: Physical and chemical properties

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

##### Appearance

Physical state: Liquid

Form: Aerosol

Colour: colourless

Odour: characteristic

flammability: No data available

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### Safety relevant basis data

| Parameter                                    | Value                     | at °C | ① Method<br>② Remark |
|--|---------------------------|-------|----------------------|
| pH   | No data available         |       |                      |
| Melting point                                | No data available         |       |                      |
| Freezing point                               | No data available         |       |                      |
| Initial boiling point and boiling range      | No data available         |       |                      |
| Flash point                                  | No data available         |       |                      |
| Evaporation rate                             | No data available         |       |                      |
| Auto-ignition temperature                    | No data available         |       |                      |
| Upper/lower flammability or explosive limits | No data available         |       |                      |
| Vapour pressure                              | No data available         |       |                      |
| Vapour density                               | No data available         |       |                      |
| Density                                      | No data available         |       |                      |
| Relative density                             | 0.79                      |       |                      |
| Bulk density                                 | not applicable            |       |                      |
| Water solubility                             | No data available         |       |                      |
| Dynamic viscosity                            | No data available         |       |                      |
| Kinematic viscosity                          | < 20.5 mm <sup>2</sup> /s | 40 °C |                      |

### 9.2. Other information

Extremely flammable aerosol. Pressurized container: May burst if heated.  
VOC value: 98,8 % (618,1 g/L)

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Pressurised container: May burst if heated. Extremely flammable aerosol.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions are known under normal conditions of use.

### \* 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No naked flames, no sparks. Remove all sources of ignition. extreme temperatures Do not expose to temperatures exceeding 50°C.

### 10.5. Incompatible materials

strong acids, Bases

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, no hazardous decomposition products should be formed.

## SECTION 11: Toxicological information

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

|  |
|--|
| <b>Permethrin</b> CAS No.: 52645-53-1 EC No.: 258-067-9                            |
| <b>LD<sub>50</sub> oral:</b> 664 mg/kg (Ratte)                                     |
| <b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (Ratte)                                |
| <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >4.638 mg/L 4 h (Ratte) |

#### Acute oral toxicity:

Based on available data, the classification criteria are not met.

#### Acute dermal toxicity:

Based on available data, the classification criteria are not met.

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### Acute inhalation toxicity:

Based on available data, the classification criteria are not met.

### Skin corrosion/irritation:

Repeated exposure may cause skin dryness or cracking.

### Serious eye damage/irritation:

Based on available data, the classification criteria are not met.

### Respiratory or skin sensitisation:

Contains .... May produce an allergic reaction.

### Germ cell mutagenicity:

Based on available data, the classification criteria are not met.

### Carcinogenicity:

Based on available data, the classification criteria are not met.

### Reproductive toxicity:

Based on available data, the classification criteria are not met.

### STOT-single exposure:

May cause drowsiness or dizziness. (Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics)

May cause damage to organs. (D-Tetramethrin)

May cause respiratory irritation. (Piperonyl butoxyde)

### STOT-repeated exposure:

Based on available data, the classification criteria are not met.

### Aspiration hazard:

May be fatal if swallowed and enters airways.

### Additional information:

No data available

## \* 11.2. Information on other hazards

### Endocrine disrupting properties:

Prolonged or repeated skin contact can lead to skin defatting and consequently to skin irritation.

Symptoms/ delayed effects: Headache Dizziness; May irritate eyes, skin and respiratory tract.

## SECTION 12: Ecological information

### \* 12.1. Toxicity

|  |                                     |
|--|-------------------------------------|
| <b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, &lt;2% aromatics</b>   | EC No.: 919-857-5                   |
| <b>LC<sub>50</sub></b> : 1,000 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i> ) OECD 203                                   |                                     |
| <b>LC<sub>50</sub></b> : 1,000 mg/L 2 d (crustaceans, <i>Daphnia magna</i> ) OECD 202                                  |                                     |
| <b>LC<sub>50</sub></b> : >1,000 mg/L 4 d (fish, Regenbogenforelle) OECD 203  |                                     |
| <b>EC<sub>50</sub></b> : 1,000 mg/L 2 d (crustaceans, <i>Daphnia magna</i> ) OECD 202                                  |                                     |
| <b>EC<sub>50</sub></b> : 1,000 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> ) OECD 202          |                                     |
| <b>EC<sub>50</sub></b> : >1,000 mg/L 2 d (crustaceans, <i>Daphnia magna</i> ) OECD 202                                 |                                     |
| <b>Butane (with &lt; 0,1 % butadiene (203-450-8))</b>  | CAS No.: 106-97-8 EC No.: 203-448-7 |
| <b>LC<sub>50</sub></b> : 49.9 mg/L 4 d (fish)  |                                     |
| <b>LC<sub>50</sub></b> : 49.9 mg/L 4 d (fish)  |                                     |
| <b>EC<sub>50</sub></b> : 69.43 mg/L 2 d (crustaceans, <i>Daphnia</i> sp.) Calculation with the ECOSAR programme v1.00. |                                     |
| <b>EC<sub>50</sub></b> : 69.43 mg/L 2 d (crustaceans, <i>Daphnia</i> sp.)  |                                     |
| <b>ErC<sub>50</sub></b> : 19.37 mg/L 4 d (Algae/water plant, Algae) Calculation using ECOSAR Program v1.00             |                                     |
| <b>ErC<sub>50</sub></b> : 19.37 mg/L 4 d (Algae (not specified))   |                                     |

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|  |
|--|
| <b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9  |
| <b>LC<sub>50</sub></b> : 9,640 mg/L 4 d (fish, Pimephales promelas)  |
| <b>LC<sub>50</sub></b> : 0.41 mg/L 4 d (fish, Oncorhynchus mykiss)   |
| <b>LC<sub>50</sub></b> : 49.9 mg/L 4 d (fish)  |
| <b>EC<sub>50</sub></b> : >100 mg/L (Algae/water plant, Bacteria)   |
| <b>EC<sub>50</sub></b> : 0.17 mg/L 3 d (Algae/water plant, Selenastrum capricornutum)                            |
| <b>EC<sub>50</sub></b> : 69.43 mg/L 2 d (crustaceans, Daphnia) Calculation with the ECOSAR programme v1.00.      |
| <b>NOEC</b> : 0.017 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)                                |
| <b>ErC<sub>50</sub></b> : 19.37 mg/L 4 d (Algae/water plant, Algae) Calculation with the ECOSAR programme v1.00. |
| <b>LOEC</b> : 1,000 mg/L (Algae/water plant, Algae)  |
| <b>LOEC</b> : 1,000 mg/L (Algae/water plant, Alge)   |
| <b>IC<sub>50</sub></b> : 11.3 mg/L 3 d (Algae/water plant)   |
| <b>LOEC</b> : 1,000 mg/L   |
| <b>Permethrin</b> CAS No.: 52645-53-1 EC No.: 258-067-9  |
| <b>LC<sub>50</sub></b> : 0.0089 mg/L 4 d (fish, guppy, poecilia reticulata)                                      |
| <b>LC<sub>50</sub></b> : 0.0089 mg/L 4 d (Poecilia reticulata (Guppy))   |
| <b>LC<sub>50</sub></b> : 0.0089 mg/L (fish, poecilia reticulata)   |
| <b>EC<sub>50</sub></b> : 0.32 mg/L 1 d (crustaceans, daphnia magna)  |
| <b>EC<sub>50</sub></b> : >0.011 mg/L 3 d (Algae/water plant, scenedesmus subspicatus)                            |
| <b>EC<sub>50</sub></b> : >0.011 mg/L 3 d (Algae/water plant, Desmodemus subspicatus)                             |

### Aquatic toxicity:

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.

### \* 12.2. Persistence and degradability

|  |
|--|
| <b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, &lt;2% aromatics</b> EC No.: 919-857-5 |
| <b>Biodegradation:</b> Yes, rapidly  |
| <b>Butane (with &lt; 0,1 % butadiene (203-450-8))</b> CAS No.: 106-97-8 EC No.: 203-448-7        |
| <b>Biodegradation:</b> Yes, rapidly  |
| <b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9  |
| <b>Biodegradation:</b> Yes, rapidly  |
| <b>Isobutane (contains &lt; 0.1% butadiene (203-450-8))</b> CAS No.: 75-28-5 EC No.: 200-857-2   |
| <b>Biodegradation:</b> Yes, rapidly  |
| <b>Permethrin</b> CAS No.: 52645-53-1 EC No.: 258-067-9  |
| <b>Biodegradation:</b> Yes, rapidly  |

### \* 12.3. Bioaccumulative potential

|  |
|--|
| <b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, &lt;2% aromatics</b> EC No.: 919-857-5 |
| <b>Log K<sub>OW</sub>:</b> > 4   |
| <b>Butane (with &lt; 0,1 % butadiene (203-450-8))</b> CAS No.: 106-97-8 EC No.: 203-448-7        |
| <b>Log K<sub>OW</sub>:</b> 1.09  |
| <b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9  |
| <b>Log K<sub>OW</sub>:</b> 1.09  |

### 12.4. Mobility in soil

No data available

### \* 12.5. Results of PBT and vPvB assessment

|  |
|--|
| <b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, &lt;2% aromatics</b> EC No.: 919-857-5 |
| <b>Results of PBT and vPvB assessment:</b> —   |
| <b>Butane (with &lt; 0,1 % butadiene (203-450-8))</b> CAS No.: 106-97-8 EC No.: 203-448-7        |
| <b>Results of PBT and vPvB assessment:</b> —   |

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|  |
|--|
| <b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9  |
| <b>Results of PBT and vPvB assessment:</b> —   |
| <b>Isobutane (contains &lt; 0.1% butadiene (203-450-8))</b> CAS No.: 75-28-5 EC No.: 200-857-2 |
| <b>Results of PBT and vPvB assessment:</b> —   |
| <b>Permethrin</b> CAS No.: 52645-53-1 EC No.: 258-067-9  |
| <b>Results of PBT and vPvB assessment:</b> —   |
| <b>2-(2-butoxyethoxy)ethyl 6-propylpiperonyl ether</b> CAS No.: 51-03-6 EC No.: 200-076-7      |
| <b>Results of PBT and vPvB assessment:</b> —   |

### 12.6. Endocrine disrupting properties

No data available

### 12.7. Other adverse effects

water hazard class 3: highly hazardous to water

## SECTION 13: Disposal considerations

### \* 13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

#### 13.1.1. Product/Packaging disposal

#### Waste codes/waste designations according to EWC/AVV Directive 2008/98/EC (Waste Framework Directive)

|       |   |
|-------|---|
| HP 3  | Flammable   |
| HP 5  | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity |
| HP 14 | Ecotoxic  |

### Waste treatment options

#### Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

#### Appropriate disposal / Package:

Do not reuse empty containers.

#### Other disposal recommendations:

Dispose of waste according to applicable legislation. Pressurised container: May burst if heated.

## 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  | UN 1950  | UN 1950  | UN 1950  |
| <b>14.2. UN proper shipping name</b>   |  |  |  |
| AEROSOLS   | AEROSOLS   | AEROSOLS   | AEROSOLS   |
| <b>14.3. Transport hazard class(es)</b>  |  |  |  |
| <br>2.1 | <br>2.1 | <br>2.1           | <br>2.1 |
| <b>14.4. Packing group</b>   |  |  |  |
|  |  | -  |  |
| <b>14.5. Environmental hazards</b>   |  |  |  |
|         |         |  MARINE POLLUTANT |         |

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| Land transport (ADR/RID)  | Inland waterway craft (ADN) | Sea transport (IMDG)   | Air transport (ICAO-TI / IATA-DGR) |
|---|-----------------------------|--|------------------------------------|
| <b>14.6. Special precautions for user</b>   |                             |  |                                    |
| <b>Special Provisions:</b><br>190, 327, 344, 625<br><b>Limited quantity (LQ):</b><br>1L<br><b>Excepted Quantities (EQ):</b><br>E0<br><b>Classification code:</b><br>5F<br><b>Tunnel restriction code:</b><br>(D)<br><b>Remark:</b><br>Packaging instructions:<br>P207, LP200<br>Special Provisions Package:<br>PP87, RR6, L2<br>Special Provisions Packing together: MP9<br>Transport category: 2<br>Special Provisions<br>Transport - Packages: V14<br>Special Provisions<br>Transport - loading and unloading, handling: CV9, CV12<br>Special Provisions<br>Transport - Operation: S2 | No data available           | <b>Special Provisions:</b><br>63, 190, 277, 327, 344, 381, 959<br><b>Limited quantity (LQ):</b><br>SP277<br><b>Excepted Quantities (EQ):</b><br>E0<br><b>Remark:</b><br>Packaging instructions:<br>P207, LP200<br>Special Provisions Package:<br>PP87, L2<br>Congestion category: none<br>Stowage and handling:<br>SW1, SW22<br>Separation: SG69 | No data available                  |

### 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 legislation

##### Restrictions on use:

Restrictions on use (REACH, Annex XVII) 3(a), 3(b), 3(c)

Substances subject to authorisation (Annex XIV REACH): None of the ingredients are included.

Substances of Very High Concern (SVHC) according to REACH, Article 57: None of the ingredients are included.

Regulation (EU) 649/2012 (PIC): Permethrin

Regulation (EC) 2019/1021 [POP Regulation]: None of the ingredients are included.

Ozone Regulation (2024/590): None of the ingredients are included.

Regulation on dual-use goods (Dual-Use Regulation): None of the ingredients are included.

VOC limit value: 98,8 % (618,1 g/l)

Regulation (EU) No 528/2012 (Biocidal products): Product-type 18: Insecticides, acaricides and products to control other arthropods.

Regulation (EU) 2019/1148 (marketing and use of explosives precursors): None of the ingredients are included.

Regulation (EC) No. 273/2004 (Drug Precursors): None of the ingredients are included.

##### Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive], Hazard categories:

- P3a 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids
- E1 Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

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Named dangerous substances:

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

**Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:**

Volatile organic compound (VOC) content: 98.8

### 15.1.2. National regulations

No data available

### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

## SECTION 16: Other information

### \* 16.1. Indication of changes

|       |  |
|-------|--|
| 1.1.  | Product identifier   |
| 1.2.  | Relevant identified uses of the substance or mixture and uses advised against                          |
| 2.1.  | Classification of the substance or mixture   |
| 2.2.  | Label elements   |
| 2.3.  | Other hazards  |
| 3.2.  | Mixtures   |
| 4.1.  | Description of first aid measures  |
| 4.2.  | Most important symptoms and effects, both acute and delayed  |
| 5.2.  | Special hazards arising from the substance or mixture  |
| 5.3.  | Advice for firefighters  |
| 5.4.  | Additional information   |
| 6.1.  | Personal precautions, protective equipment and emergency procedures                                    |
| 6.3.  | Methods and material for containment and cleaning up   |
| 6.4.  | Reference to other sections  |
| 7.1.  | Precautions for safe handling  |
| 7.2.  | Conditions for safe storage, including any incompatibilities   |
| 8.1.  | Control parameters   |
| 8.2.  | Exposure controls  |
| 9.1.  | Information on basic physical and chemical properties  |
| 10.4. | Conditions to avoid  |
| 11.1. | Information on hazard classes as defined in Regulation (EC) No 1272/2008                               |
| 11.2. | Information on other hazards   |
| 12.1. | Toxicity   |
| 12.2. | Persistence and degradability  |
| 12.3. | Bioaccumulative potential  |
| 12.5. | Results of PBT and vPvB assessment   |
| 13.1. | Waste treatment methods  |
| 14.6. | Special precautions for user   |
| 15.1. | Safety, health and environmental regulations/legislation specific for the substance or mixture         |
| 16.1. | Indication of changes  |
| 16.2. | Abbreviations and acronyms   |
| 16.4. | Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP] |
| 16.5. | List of relevant hazard statements and/or precautionary statements from sections 2 to 15               |

### \* 16.2. 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   |
| AVV | Waste Shipment Ordinance (DE)   |
| CAS | Chemical Abstracts Service  |
| CLP | Classification, Labelling and Packaging   |

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|                  |   |
|------------------|---|
| DIN              | German Institute for Standardization / German Industrial Standard |
| DNEL             | derived no-effect level   |
| EAK              | European Waste Catalogue  |
| EC <sub>50</sub> | Effective Concentration 50%                                       |
| EG               | European Community  |
| EN               | European Standard   |
| EU               | European Union  |
| EWC              | European Waste Catalogue  |
| IC <sub>50</sub> | Inhibition Concentration 50 %                                     |
| 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%   |
| NFPA             | National Fire Protection Association                              |
| NOEC             | No Observed Effect Concentration                                  |
| OECD             | Organisation for Economic Cooperation and Development             |
| PBT              | persistent and bioaccumulative and toxic                          |
| PNEC             | Predicted No Effect Concentration                                 |
| REACH            | Registration, Evaluation and Authorization of Chemicals           |
| RID              | Dangerous goods regulations for transport by rail                 |
| Tox.             | Toxicity  |
| TRGS             | Technische Regeln für Gefahrstoffe                                |
| UFI              | Unique Formula Identifier   |
| UN               | United Nations  |
| VOC              | Volatile organic compounds  |

### 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 |
|---|--|--------------------------|
| aerosol dispensers and lighters<br>(Aerosol 1)              | H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated. | On basis of test data.   |
| Aspiration hazard (Asp. Tox. 1)                             | H304: May be fatal if swallowed and enters airways.                                  | Calculation method.      |
| STOT-single exposure (STOT SE 3)                            | H336: May cause drowsiness or dizziness.   | Calculation method.      |
| Hazardous to the aquatic environment<br>(Aquatic Acute 1)   | H400: Very toxic to aquatic life.  | Calculation method.      |
| Hazardous to the aquatic environment<br>(Aquatic Chronic 1) | H410: Very toxic to aquatic life with long lasting effects.                          | Calculation method.      |

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

| Hazard statements |   |
|-------------------|---|
| H220              | Extremely flammable gas.                            |
| H226              | Flammable liquid and vapour.                        |
| H280              | Contains gas under pressure; may explode if heated. |
| H302              | Harmful if swallowed.                               |
| H304              | May be fatal if swallowed and enters airways.       |
| H317              | May cause an allergic skin reaction.                |
| H319              | Causes serious eye irritation.                      |

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### Hazard statements

|      |   |
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| H332 | Harmful if inhaled.                                   |
| H335 | May cause respiratory irritation.                     |
| H336 | May cause drowsiness or dizziness.                    |
| H351 | Suspected of causing cancer.                          |
| H371 | May cause damage to organs.                           |
| H400 | Very toxic to aquatic life.                           |
| H410 | Very toxic 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

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.

\* Data changed compared with the previous version.