

# SAFETY DATA SHEET

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

Revision date: 7 Jul 2025

Print date: 9 Jul 2025

Version: 4



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## Multi Tech 5 NSF 500ml

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

#### 1.1. Product identifier

Trade name/designation:

Multi Tech 5 NSF 500ml

Article No.:

T232501

UFI:

NHNS-MSG-EKOP-HKSC

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

Use of the substance/mixture:

Lubricating agent

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

Supplier:

KANDO Service GmbH

Hartleitnerstraße 3

4653 Eberstälzell

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>(Aerosol 1)              | H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated. |                          |
| STOT-single exposure (STOT SE 3)                            | H336: May cause drowsiness or dizziness.   |                          |
| Hazardous to the aquatic environment<br>(Aquatic Chronic 3) | H412: Harmful to aquatic life with long lasting effects.                             |                          |

#### 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:

pentane

#### 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

|      |  |
|------|--|
| H412 | Harmful to aquatic life with long lasting effects. |
|------|--|

#### 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.   |
| 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.  |
| P280 | Wear protective gloves/protective clothing and eye protection/face protection.                 |

#### Precautionary statements Response

|             |  |
|-------------|--|
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P312        | Call a POISON CENTER if you feel unwell.                                   |

#### 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. |

#### Precautionary statements Disposal

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

### 2.3. Other hazards

#### Other adverse effects:

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 3: Composition/information on ingredients

### \* 3.2. Mixtures

#### Description:

Active ingredient mixture with propellant gas

#### Additional information:

Aerosols and containers fitted with a solid nebuliser containing substances or mixtures classified as hazardous by aspiration must not be labelled for this hazard.

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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.: 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 1A (H220), Press. Gas (Comp.) (H280)<br>Danger   | 10 - < 25 %   |
| CAS No.: 109-66-0<br>EC No.: 203-692-4<br>Index No.: 601-006-00-1<br>REACH No.:<br>01-2119459286-30 | <b>pentane</b><br>Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT SE 3 (H336)<br>Danger EUH066<br><b>Acute Toxicity Estimate</b><br>ATE (oral) > 5,000 mg/kg<br>ATE (dermal) > 2,000 mg/kg<br>ATE (inhalation, gases) > 20 ppmV<br>ATE (inhalation, vapour) > 25.3 mg/L<br>-----<br><b>Additional information:</b> EUH066 | 10 - < 25 %   |
| 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  | 2.5 - < 10 %  |
| CAS No.: 75-28-5<br>EC No.: 200-857-2<br>REACH No.:<br>01-2119485395-27                             | <b>Isobutane (with &lt; 0.1 % butadiene (203-450-8))</b><br>Flam. Gas 1A (H220), Press. Gas (Comp.) (H280)<br>Danger<br><b>Acute Toxicity Estimate</b><br>ATE (inhalation, vapour) 52,000 mg/L  | 2.5 - < 10 %  |

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

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### Following inhalation:

Fresh air supply, consult a doctor in case of complaints.

#### In case of skin contact:

In general, the product is not irritating to skin.

#### After eye contact:

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

#### Following ingestion:

Do not induce vomiting, seek medical help immediately.

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

No further relevant information available.

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

No further relevant information available.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

Water mist, Extinguishing powder, Carbon dioxide (CO<sub>2</sub>), alcohol resistant foam

#### Unsuitable extinguishing media:

Water in full jet

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

No further relevant information available.

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### 5.3. Advice for firefighters

Special protective equipment: Put on breathing apparatus.

## SECTION 6: Accidental release measures

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

#### 6.1.1. For non-emergency personnel

**Personal precautions:**

Wear protective equipment. Keep unprotected persons away.

#### 6.1.2. For emergency responders

No data available

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of spillage into water or sewage system, inform the competent authorities.

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

**For cleaning up:**

Do not wash away with water or aqueous detergents.

**Other information:**

Provide adequate ventilation.

### 6.4. Reference to other sections

Further information on proper storage: see section 7.

For further information on personal protective equipment: see section 8.

For further information on disposal: see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Protective measures**

**Advices on safe handling:**

Ensure good ventilation/extraction at the workplace.

**Fire prevent measures:**

Do not spray on naked flames or any incandescent material.

Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharges.

Container is under pressure. Protect from sunlight and temperatures above 50°C (e.g. from incandescent lamps). Do not open by force or burn even after use.

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

**Requirements for storage rooms and vessels:**

Store in a cool place. The official regulations for the storage of pressurised gas packages must be observed.

**Hints on storage assembly:**

The official regulations for the storage of pressurised gas packages must be observed.

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

**Further information on storage conditions:**

Store in a cool, dry place in well-sealed containers. Protect from heat and direct sunlight.

### 7.3. Specific end use(s)

**Recommendation:**

No further relevant information 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<br>(country of<br>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>Butane (with &lt; 0,1 % butadiene<br/>(203-450-8))</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 (with &lt; 0,1 % butadiene<br/>(203-450-8))</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>pentane</b><br>CAS No.: 109-66-0<br>EC No.: 203-692-4  | ② 1,200 ppm (3,600 mg/m <sup>3</sup> )<br>⑤ (max. 3x60 min./Schicht, Momentanwert)   |
| IOELV (EU)                                 | <b>pentane</b><br>CAS No.: 109-66-0<br>EC No.: 203-692-4  | ① 1,000 ppm (3,000 mg/m <sup>3</sup> )   |
| MAK (AT)                                   | <b>pentane</b><br>CAS No.: 109-66-0<br>EC No.: 203-692-4  | ① 600 ppm (1,800 mg/m <sup>3</sup> )   |
| 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>Isobutane (with &lt; 0.1 % butadiene<br/>(203-450-8))</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 (with &lt; 0.1 % butadiene<br/>(203-450-8))</b><br>CAS No.: 75-28-5<br>EC No.: 200-857-2 | ① 800 ppm (1,900 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>pentane</b><br>CAS No.: 109-66-0<br>EC No.: 203-692-4 | 3,000 mg/m <sup>3</sup> | ① DNEL worker<br>② Long-term - inhalation, systemic effects   |
| <b>pentane</b><br>CAS No.: 109-66-0<br>EC No.: 203-692-4 | 643 mg/m <sup>3</sup>   | ① DNEL Consumer<br>② Long-term - inhalation, systemic effects |
| <b>pentane</b><br>CAS No.: 109-66-0<br>EC No.: 203-692-4 | 432 mg/kg bw/<br>day    | ① DNEL worker<br>② Long-term - dermal, systemic effects       |
| <b>pentane</b><br>CAS No.: 109-66-0<br>EC No.: 203-692-4 | 214 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                         |
|---|----------------------|---|
| pentane<br>CAS No.: 109-66-0<br>EC No.: 203-692-4 | 214 mg/kg bw/<br>day | ① DNEL Consumer<br>② Long-term - oral, systemic effects |
| Substance name                                    | PNEC Value           | ① PNEC type   |
| pentane<br>CAS No.: 109-66-0<br>EC No.: 203-692-4 | 0.23 mg/L            | ① PNEC aquatic, freshwater                              |
| pentane<br>CAS No.: 109-66-0<br>EC No.: 203-692-4 | 0.23 mg/L            | ① PNEC aquatic, marine water                            |
| pentane<br>CAS No.: 109-66-0<br>EC No.: 203-692-4 | 3.6 mg/L             | ① PNEC sewage treatment plant                           |
| pentane<br>CAS No.: 109-66-0<br>EC No.: 203-692-4 | 1.2 mg/kg bw/<br>day | ① PNEC sediment, freshwater                             |
| pentane<br>CAS No.: 109-66-0<br>EC No.: 203-692-4 | 1.2 mg/kg            | ① PNEC sediment, marine water                           |
| pentane<br>CAS No.: 109-66-0<br>EC No.: 203-692-4 | 0.55 mg/kg           | ① PNEC soil   |
| pentane<br>CAS No.: 109-66-0<br>EC No.: 203-692-4 | 0.88 mg/L            | ① PNEC aquatic, intermittent release                    |

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

No further details. See section 7.

### 8.2.2. Personal protection equipment



#### Eye/face protection:

Safety goggles (EN-166)

#### Skin protection:

Hand protection:

Gloves / solvent resistant

Breakthrough times and swelling properties of the material must be taken into consideration.

Glove material:

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)

Recommended material thickness:  $\geq 0,5$  mm

Permeation time (maximum wear duration):

For continuous contact we recommend gloves with a breakthrough time of at least 240 minutes, with the preference for a breakthrough time greater than 480 minutes. For short term or splash protection we recommend the same. We are aware that suitable gloves offering this protection are not available. In this case, a shorter breakthrough time is permissible, provided the procedures for maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance the gloves give against a chemical substance, as this depends on the exact composition of the material of the gloves. The exact breakthrough time should be checked with the glove manufacturer and adhered to.

Body protection:

Use protective suit. (EN-13034/6)

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Antistatic, chemical and oil resistant clothing and safety shoes are recommended. (EN1149; EN340&EN ISO 13688 EN13034-6).

### Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Filter A2/P2

### Other protection measures:

General protective and hygienic measures: Keep away from food, drink and animal feed. Wash hands before breaks and after work. General ventilation.

### 8.2.3. Environmental exposure controls

Use a suitable container to prevent environmental pollution.

## SECTION 9: Physical and chemical properties

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

#### Appearance

**Form:** Aerosol

**Colour:** According to product designation

**Odour:** characteristic

**flammability:** No data available

#### Safety relevant basis data

| Parameter                                    | Value                    | at °C | ① Method<br>② Remark                      |
|--|--------------------------|-------|---|
| pH   | <i>not applicable</i>    |       | ② Mixture is not polar/aprotic.           |
| Initial boiling point and boiling range      | -44.5 °C                 |       |   |
| Flash point                                  | -97 °C                   |       |   |
| Evaporation rate                             | <i>No data available</i> |       |   |
| Auto-ignition temperature                    | 285 °C                   |       |   |
| Upper/lower flammability or explosive limits | 1.4 - 10.9 Vol-%         |       |   |
| Vapour pressure                              | 3,000 hPa                | 20 °C |   |
| Density                                      | 0.686 g/cm <sup>3</sup>  | 20 °C |   |
| Water solubility                             | <i>not applicable</i>    |       | ② Not miscible or only slightly miscible. |

### 9.2. Other information

The product is not self-igniting. The product is not explosive, but the formation of explosive vapour/air mixtures is possible. formation of explosive vapour/air mixtures is possible.

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

##### Explosives:

Not applicable

##### Flammable gases:

Not applicable

##### Aerosols:

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

##### Oxidizing gases:

Not applicable

##### Gases under pressure:

Not applicable

##### Flammable liquids:

Not applicable

##### Flammable solids:

Not applicable

##### Self-reactive substances and mixtures:

Not applicable

##### Pyrophoric liquids:

Not applicable

##### Pyrophoric solids:

Not applicable

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### Self-heating substances and mixtures:

Not applicable

### Substances or mixtures which, in contact with water, emit flammable gases:

Not applicable

### Oxidizing liquids:

Not applicable

### Oxidizing solids:

Not applicable

### Organic peroxides:

Not applicable

### Corrosive to metals:

Not applicable

### Desensitised explosives:

Not applicable

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No further relevant information available.

### 10.2. Chemical stability

Thermal decomposition / Conditions to avoid: No decomposition when used as directed.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known.

### 10.4. Conditions to avoid

No further relevant information available.

### 10.5. Incompatible materials

No further relevant information available.

### 10.6. Hazardous decomposition products

No dangerous decomposition products known.

## SECTION 11: Toxicological information

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

|  |                   |                   |
|--|-------------------|-------------------|
| <b>pentane</b>   | CAS No.: 109-66-0 | EC No.: 203-692-4 |
| <b>LD<sub>50</sub> oral:</b> >5,000 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> >20 ppmV 4 h (rat)               |                   |                   |
| <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >25.3 mg/L 4 h (Rat) OECD 403 |                   |                   |
| <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)            |                   |                   |
| <b>Isobutane (with &lt; 0.1 % butadiene (203-450-8))</b>                                 |                   |                   |
| <b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> 52,000 mg/L 2 h (Rat)         |                   |                   |

### 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.

### Acute inhalation toxicity:

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



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### Skin corrosion/irritation:

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

### Serious eye damage/irritation:

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

### Respiratory or skin sensitisation:

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

### 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.

### STOT-repeated exposure:

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

### Aspiration hazard:

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

## 11.2. Information on other hazards

### Endocrine disrupting properties:

None of the ingredients are included.

## SECTION 12: Ecological information

### \* 12.1. Toxicity

|   |                   |                   |
|---|-------------------|-------------------|
| <b>pentane</b>  | CAS No.: 109-66-0 | EC No.: 203-692-4 |
| <b>LC<sub>50</sub></b> : 4.26 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i> )  |                   |                   |
| <b>EC<sub>50</sub></b> : 10.7 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> )                 |                   |                   |
| <b>EC<sub>50</sub></b> : 2.7 mg/L 2 d (crustaceans, <i>Daphnia magna</i> )  |                   |                   |
| <b>NOEC</b> : 7.51 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> )                            |                   |                   |
| <b>NOEC</b> : 7.51 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> )                            |                   |                   |
| <b>EC<sub>50</sub></b> : 10.7 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> )                 |                   |                   |
| <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, <i>Pimephales promelas</i> )   |                   |                   |
| <b>LC<sub>50</sub></b> : 0.41 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i> )  |                   |                   |
| <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, <i>Selenastrum capricornutum</i> )                       |                   |                   |
| <b>EC<sub>50</sub></b> : 69.43 mg/L 2 d (crustaceans, <i>Daphnia</i> ) Calculation with the ECOSAR programme v1.00. |                   |                   |
| <b>NOEC</b> : 0.017 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i> )                           |                   |                   |
| <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)  |                   |                   |

### Aquatic toxicity:

No further relevant information available.

## 12.2. Persistence and degradability

|                                      |                   |                   |
|--------------------------------------|-------------------|-------------------|
| <b>pentane</b>                       | CAS No.: 109-66-0 | EC No.: 203-692-4 |
| <b>Biodegradation</b> : Yes, rapidly |                   |                   |
| <b>propane</b>                       | CAS No.: 74-98-6  | EC No.: 200-827-9 |
| <b>Biodegradation</b> : Yes, rapidly |                   |                   |

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### Biodegradation:

Not readily biodegradable.

### Additional information:

No further relevant information available.

### 12.3. Bioaccumulative potential

|                       |                   |                   |
|-----------------------|-------------------|-------------------|
| pentane               | CAS No.: 109-66-0 | EC No.: 203-692-4 |
| Log K <sub>OW</sub> : | 3.39              |                   |
| propane               | CAS No.: 74-98-6  | EC No.: 200-827-9 |
| Log K <sub>OW</sub> : | 1.09              |                   |

### Accumulation / Evaluation:

No further relevant information available.

### 12.4. Mobility in soil

No further relevant information available.

### 12.5. Results of PBT and vPvB assessment

|  |                   |                   |
|--|-------------------|-------------------|
| Butane (with < 0,1 % butadiene (203-450-8))    | CAS No.: 106-97-8 | EC No.: 203-448-7 |
| Results of PBT and vPvB assessment:            | —                 |                   |
| pentane  | CAS No.: 109-66-0 | EC No.: 203-692-4 |
| Results of PBT and vPvB assessment:            | —                 |                   |
| propane  | CAS No.: 74-98-6  | EC No.: 200-827-9 |
| Results of PBT and vPvB assessment:            | —                 |                   |
| Isobutane (with < 0.1 % butadiene (203-450-8)) | CAS No.: 75-28-5  | EC No.: 200-857-2 |
| Results of PBT and vPvB assessment:            | —                 |                   |

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

### 12.6. Endocrine disrupting properties

The product does not contain any substances with endocrine-disrupting properties.

### 12.7. Other adverse effects

Do not allow to enter into surface water or drains.

Drinking water hazard even when small quantities leak into the subsoil.

Harmful to aquatic life.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Must not be disposed of together with household waste. Do not allow run-off from fire-fighting to enter drains or water courses.

#### 13.1.1. Product/Packaging disposal

#### Waste codes/waste designations according to EWC/AVV

##### Waste code product

|            |          |
|------------|----------|
| 20 01 13 * | Solvents |
|------------|----------|

\*: Evidence for disposal must be provided.

##### Directive 2008/98/EC (Waste Framework Directive)

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

##### Waste code packaging

|          |                    |
|----------|--------------------|
| 15 01 04 | metallic packaging |
|----------|--------------------|

##### Waste treatment options

##### Appropriate disposal / Package:

Uncleaned packaging: Dispose of waste according to applicable legislation.

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### 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, flammable  |
| <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>   |  |   |  |
| No   | No   | No  | No   |
| <b>14.6. Special precautions for user</b>  |  |   |  |
| <b>Special Provisions:</b><br>190   327   344   625<br><b>Limited quantity (LQ):</b><br>1 L<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>Attention: Gases | <b>Special Provisions:</b><br>190   327   344   625<br><b>Limited quantity (LQ):</b><br>1 L<br><b>Excepted Quantities (EQ):</b><br>E0<br><b>Classification code:</b><br>5F<br><b>Remark:</b><br>Attention: Gases | <b>Special Provisions:</b><br>63   190   277   327   344   381   959<br><b>Limited quantity (LQ):</b><br>Siehe SV277<br><b>Excepted Quantities (EQ):</b><br>E0<br><b>EmS-No.:</b><br>F-D, S-U<br><b>Remark:</b><br>Attention: Gases | <b>Special Provisions:</b><br>A145   A167<br><b>Limited quantity (LQ):</b><br>Y203<br><b>Excepted Quantities (EQ):</b><br>E0<br><b>Remark:</b><br>Attention: Gases |

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

No data available

### SECTION 15: Regulatory information

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

##### 15.1.1. EU legislation

###### Authorisations:

Directive 2012/18/EU

Named dangerous substances - ANNEX I: None of the ingredients are included.

###### Restrictions on use:

Regulation (EC) No 1907/2006 ANNEX XVII: Restriction conditions: 3

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II: None of the ingredients are included.

Regulation (EU) 2019/1148

Annex I - RESTRICTED EXPORT SUBSTANCES FOR EXPLOSIVES (upper concentration limit for a permit pursuant to Article 5(3)): None of the ingredients are included.

Annex II - EXPLOSIVES REPORTABLE FOR EXPLOSIVES: None of the ingredients are included.

Regulation (EC) No 273/2004 on drug precursors: None of the ingredients are included.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade in drug precursors between the Community and third countries: None of the ingredients are included.

###### Other regulations (EU):

Hazard categories:

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

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 compounds (VOC) content in percent by weight: 377.3 g/L

### **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**

|       |  |
|-------|--|
| 1.3.  | Details of the supplier of the safety data sheet   |
| 3.2.  | Mixtures   |
| 8.1.  | Control parameters   |
| 12.1. | Toxicity   |
| 15.1. | Safety, health and environmental regulations/legislation specific for the substance or mixture |
| 16.1. | Indication of changes  |
| 16.2. | Abbreviations and acronyms   |

### \* **16.2. Abbreviations and acronyms**

|                  |   |
|------------------|---|
| ACGIH            | American Conference of Governmental Industrial Hygienists                                       |
| 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             |
| 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   |
| 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   |
| 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  |
| OECD             | Organisation for Economic Cooperation and Development   |
| OSHA             | Occupational Safety & Health Administration   |
| 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   |
| TRGS             | Technische Regeln für Gefahrstoffe  |
| UN               | United Nations  |
| VOC              | Volatile organic compounds  |
| ZNS              | central nervous system  |

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### 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. |                          |
| STOT-single exposure (STOT SE 3)                            | H336: May cause drowsiness or dizziness.   |                          |
| Hazardous to the aquatic environment<br>(Aquatic Chronic 3) | H412: Harmful to aquatic life with long lasting effects.                             |                          |

### 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.                   |
| H280                            | Contains gas under pressure; may explode if heated.   |
| H304                            | May be fatal if swallowed and enters airways.         |
| H336                            | May cause drowsiness or dizziness.                    |
| H411                            | 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.