## Rust Shock 500ml

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

* **1.1. Product identifier**

**Trade name/designation:**

Rust Shock 500ml

**Article No.:**
T261001

**UFI:**
5796-C4Q8-3PQA-SF63

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

**Use of the substance/mixture:**
Rust remover

### 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 *(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. |
| Skin corrosion/irritation *(Skin Irrit. 2)* | H315: Causes skin irritation. | Calculation method. |
| STOT-repeated exposure *(STOT RE 2)* | H373: May cause damage to organs through prolonged or repeated exposure. | Calculation method. |
| Hazardous to the aquatic environment *(Aquatic Chronic 3)* | H412: Harmful to aquatic life with long lasting effects. | Calculation method. |

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## 2.2. Label elements

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

**Hazard pictograms:**

**GHS08**
Health hazard

**GHS07**
Exclamation mark

**GHS02**
Flame

**Signal word:** Danger

**Hazard components for labelling:**
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane; Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics; Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, aromatics (2-25 %)

| **Hazard statements for physical hazards** | |
|---|---|
| H222 | Extremely flammable aerosol. |
| H229 | Pressurised container: May burst if heated. |

| **Hazard statements for health hazards** | |
|---|---|
| H315 | Causes skin irritation. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |

| **Hazard statements for environmental hazards** | |
|---|---|
| H412 | Harmful to aquatic life with long lasting effects. |

| **Supplemental hazard information** | |
|---|---|
| EUH208 | Contains methyl salicylate. 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. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves. |

| **Precautionary statements Response** | |
|---|---|
| P314 | Get medical advice/attention if you feel unwell. |
| P332 + P313 | If skin irritation occurs: Get medical advice/attention. |

| **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. |

**Additional information:**
Formation of explosive mixtures possible without adequate ventilation.

## 2.3. Other hazards

**Other adverse effects:**
The mixture does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006.
The product does not contain any substances with endocrine-disrupting properties.

## SECTION 3: Composition/information on ingredients

* **3.2. Mixtures**

**Hazardous ingredients / Hazardous impurities / Stabilisers:**

| Product identifiers | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|---|---|---|
| EC No.: 921-024-6<br>REACH No.:<br>01-2119475514-35-XXXX | **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**<br>Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT SE 3 (H336), Skin Irrit. 2 (H315)<br> Danger<br>**Acute Toxicity Estimate**<br>ATE (oral) > 5,000 mg/kg<br>ATE (dermal) > 2,920 mg/kg<br>ATE (inhalation, gases) > 20 ppmV<br>ATE (inhalation, vapour) > 25.2 mg/L | 10 – < 20<br>weight-% |
| CAS No.: 64742-48-9<br>EC No.: 918-481-9<br>REACH No.:<br>01-2119463258-33 | **Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics**<br>Asp. Tox. 1 (H304)<br> Danger<br>**Acute Toxicity Estimate**<br>ATE (oral) > 8,000 mg/kg<br>ATE (dermal) > 3,160 mg/kg<br>ATE (inhalation, vapour) > 0.004951 mg/L<br>ATE (inhalation, dust/mist) > 4,951 mg/L<br>**Additional information:** EUH066 | 1 – < 10<br>weight-% |
| CAS No.: 64742-82-1<br>EC No.: 919-164-8<br>REACH No.:<br>01-2119473977-17-XXXX | **Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, aromatics (2-25 %)**<br>Aquatic Chronic 3 (H412), Asp. Tox. 1 (H304), STOT RE 1 (H372)<br> Danger<br>**Acute Toxicity Estimate**<br>ATE (oral) > 15,000 mg/kg<br>ATE (dermal) > 3,400 mg/kg<br>ATE (inhalation, vapour) > 13.1 mg/L<br>ATE (inhalation, dust/mist) 13.1 mg/L<br>**Additional information:** EUH066 | < 10<br>weight-% |
| CAS No.: 119-36-8<br>EC No.: 204-317-7<br>Index No.: 607-749-00-8<br>REACH No.:<br>01-2119515671-44-XXXX | **methyl salicylate**<br>Acute Tox. 4 (H302), Aquatic Chronic 3 (H412), Eye Dam. 1 (H318), Repr. 2 (H361d), Skin Sens. 1B (H317)<br> Danger<br>**Acute Toxicity Estimate**<br>ATE (oral) 890 mg/kg<br>ATE (dermal) > 5,000 mg/kg | 0.1 – < 1<br>weight-% |
| CAS No.: 95-38-5<br>EC No.: 202-414-9<br>REACH No.:<br>01-2119777867-13-XXXX | **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol**<br>Acute Tox. 4 (H302), Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Eye Dam. 1 (H318), STOT RE 2 (H373), Skin Corr. 1C (H314)<br> Danger<br>M-factor (acute): 10 M-factor (chronic): 1<br>**Acute Toxicity Estimate**<br>ATE (oral) 1,265 mg/kg<br>ATE (dermal) > 2,000 mg/kg | 0.01 – < 0.1<br>weight-% |

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

## SECTION 4: First aid measures

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

**Following inhalation:**
Remove person from danger zone. Fresh air supply, consult a doctor in case of complaints.

**In case of skin contact:**
Wash with plenty of water and soap. Wash contaminated clothing immediately. In case of skin reactions, consult a physician.

**After eye contact:**
First rinse with water for a long time, (remove contact lenses if this is easily possible), then consult a doctor.

**Following ingestion:**
Rinse mouth thoroughly with water. Do not induce vomiting, seek medical help immediately. If vomiting occurs, keep head low so that stomach contents do not enter the lungs.

**Self-protection of the first aider:**
First aider: Pay attention to self-protection! Never give anything by mouth to an unconscious person!

* **4.2. Most important symptoms and effects, both acute and delayed**
If applicable, delayed symptoms and effects can be found in section 11. or in the routes of intake under section 4.1.
In certain cases, the symptoms of poisoning may only appear after a longer period of time/after several hours. Skin irritation, Dermatitis, Nausea, Vomiting, Aspiration hazard, Pulmonary oedema, Chemical pneumonitis; May cause damage to organs.

* **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, alcohol resistant foam, Carbon dioxide (CO2), Dry extinguishing powder

**Unsuitable extinguishing media:**
Full water jet

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

In case of fire may be liberated: Carbon oxides, toxic gases, Nitrogen oxides
Heating causes rise in pressure with risk of bursting.
In use, may form flammable/explosive vapour-air mixture.

### 5.3. Advice for firefighters

Personal protection equipment: see section 8.
Do not inhale explosion and combustion gases.
Use suitable breathing apparatus.
Full protection suit
Immerse in cold water for a prolonged period.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Dispose of waste according to applicable legislation.

## SECTION 6: Accidental release measures

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

### 6.1.1. For non-emergency personnel

**Personal precautions:**
Personal protection equipment: see section 8.
Provide adequate ventilation. Avoid dust formation with solid or powdery products. Keep away from sources of ignition - No smoking. Avoid contact with skin, eyes and clothes. Leave the danger zone as far as possible, use existing emergency plans if necessary. Special danger of slipping by leaking/spilling product.

### 6.1.2. For emergency responders

**Personal protection equipment:**
Personal protection equipment: see section 8

### 6.2. Environmental precautions

Prevent entry into drains, cellars, work pits or other places where gas accumulation could be dangerous.
Always contact the emergency services in the event of accidental emissions from this product. 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:**
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

### 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

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### 7.1. Precautions for safe handling

**Advices on general occupational hygiene**

The usual precautions when handling chemicals must be observed. Do not eat, drink, smoke or snort while working. Do not inhale dust/fume/mist. Keep away from food, drink and animal feed. Wash hands before breaks and at the end of work. Ensure good ventilation/extraction at the workplace. Avoid breathing vapours. Avoid contact with skin, eyes and clothes. Take precautionary measures against static discharge. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

**Requirements for storage rooms and vessels:**
Store out of reach of unauthorised persons. Do not store the product in passageways and stairways. Store product only in the original packaging and closed. Observe special instructions for aerosols. Observe special storage conditions. Do not store together with oxidising or spontaneously combustible substances. Protect from sunlight. Do no expose to temperatures exceeding 50 °C. Store in a cool dry place. Store in a well-ventilated place.
**Storage class (TRGS 510, Germany):** 2B – Aerosol dispensers and lighters

### 7.3. Specific end use(s)

No data available

## SECTION 8: Exposure controls/personal protection

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### 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) | **Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics**<br>CAS No.: 64742-48-9<br>EC No.: 918-481-9 | ① 200 mL/m³<br>② 400 mL/m³<br>⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von weniger als 1 %, an n-Hexan von weniger als 5 % und an Cyclo-/ Isohexanen von weniger als 25 %) |
| MAK (AT) | **Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics**<br>CAS No.: 64742-48-9<br>EC No.: 918-481-9 | ① 170 mL/m³<br>② 340 mL/m³<br>⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von weniger als 1 %, an n-Hexan von weniger als 5 % und an Cyclo-/ Isohexanen von 25 % oder mehr) |
| MAK (AT) | **Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, aromatics (2-25 %)**<br>CAS No.: 64742-82-1<br>EC No.: 919-164-8 | ① 20 mL/m³<br>② 40 mL/m³<br>⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von mehr als 25 %) |

| 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) | **Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, aromatics (2-25 %)**<br>CAS No.: 64742-82-1<br>EC No.: 919-164-8 | ① 70 mL/m³<br>② 140 mL/m³<br>⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von 1 % bis 25 % und an Hexanen von weniger als 1 %) |
| MAK (AT) | **butane**<br>CAS No.: 106-97-8<br>EC No.: 203-448-7 | ① 800 ppm (1,900 mg/m³) |
| MAK (AT) | **butane**<br>CAS No.: 106-97-8<br>EC No.: 203-448-7 | ② 1,600 ppm (3,800 mg/m³)<br>⑤ (max. 3x60 min./Schicht, Momentanwert) |
| MAK (AT) | **propane**<br>CAS No.: 74-98-6<br>EC No.: 200-827-9 | ② 2,000 ppm (3,600 mg/m³)<br>⑤ (max. 3x60 min./Schicht, Momentanwert) |
| MAK (AT) | **propane**<br>CAS No.: 74-98-6<br>EC No.: 200-827-9 | ① 1,000 ppm (1,800 mg/m³) |
| MAK (AT) | **Isobutane**<br>CAS No.: 75-28-5<br>EC No.: 200-857-2 | ② 1,600 ppm (3,800 mg/m³)<br>⑤ (max. 3x60 min./SchichtMomentanwert) |
| MAK (AT) | **Isobutane**<br>CAS No.: 75-28-5<br>EC No.: 200-857-2 | ① 800 ppm (1,900 mg/m³) |

### 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, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**<br>EC No.: 921-024-6 | 2,035 mg/m³ | ① DNEL worker<br>② Long-term – inhalation, systemic effects |
| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**<br>EC No.: 921-024-6 | 608 mg/m³ | ① DNEL Consumer<br>② Long-term – inhalation, systemic effects |
| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**<br>EC No.: 921-024-6 | 773 mg/kg bw/day | ① DNEL worker<br>② Long-term - dermal, systemic effects |
| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**<br>EC No.: 921-024-6 | 300 mg/kg bw/day | ① DNEL worker<br>② Long-term - dermal, systemic effects |
| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**<br>EC No.: 921-024-6 | 699 mg/kg bw/day | ① DNEL Consumer<br>② Long-term - dermal, systemic effects |
| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane**<br>EC No.: 921-024-6 | 699 mg/kg bw/day | ① DNEL Consumer<br>② Long-term - oral, systemic effects |
| **Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics**<br>CAS No.: 64742-48-9<br>EC No.: 918-481-9 | 871 mg/m³ | ① DNEL worker<br>② Long-term – inhalation, systemic effects |

| Substance name | DNEL value | ① DNEL type<br>② Exposure route |
|---|---|---|
| **Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics**<br>CAS No.: 64742-48-9<br>EC No.: 918-481-9 | 185 mg/m³ | ① DNEL Consumer<br>② Long-term – inhalation, systemic effects |
| **Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics**<br>CAS No.: 64742-48-9<br>EC No.: 918-481-9 | 208 mg/kg bw/day | ① DNEL worker<br>② Long-term - dermal, systemic effects |
| **Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics**<br>CAS No.: 64742-48-9<br>EC No.: 918-481-9 | 125 mg/kg bw/day | ① DNEL Consumer<br>② Long-term - dermal, systemic effects |
| **Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics**<br>CAS No.: 64742-48-9<br>EC No.: 918-481-9 | 125 mg/kg bw/day | ① DNEL Consumer<br>② Long-term - oral, systemic effects |
| **methyl salicylate**<br>CAS No.: 119-36-8<br>EC No.: 204-317-7 | 17.5 mg/m³ | ① DNEL worker<br>② Long-term – inhalation, systemic effects |
| **methyl salicylate**<br>CAS No.: 119-36-8<br>EC No.: 204-317-7 | 4 mg/m³ | ① DNEL Consumer<br>② Long-term – inhalation, systemic effects |
| **methyl salicylate**<br>CAS No.: 119-36-8<br>EC No.: 204-317-7 | 285 mg/m³ | ① DNEL worker<br>② Acute - inhalation, systemic effects |
| **methyl salicylate**<br>CAS No.: 119-36-8<br>EC No.: 204-317-7 | 213 mg/m³ | ① DNEL Consumer<br>② Acute - inhalation, local effects |
| **methyl salicylate**<br>CAS No.: 119-36-8<br>EC No.: 204-317-7 | 6 mg/kg bw/day | ① DNEL worker<br>② Long-term - dermal, systemic effects |
| **methyl salicylate**<br>CAS No.: 119-36-8<br>EC No.: 204-317-7 | 3 mg/kg bw/day | ① DNEL Consumer<br>② Long-term - dermal, systemic effects |
| **methyl salicylate**<br>CAS No.: 119-36-8<br>EC No.: 204-317-7 | 1 mg/kg bw/day | ① DNEL Consumer<br>② Long-term - oral, systemic effects |
| **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol**<br>CAS No.: 95-38-5<br>EC No.: 202-414-9 | 0.46 mg/m³ | ① DNEL worker<br>② Long-term – inhalation, systemic effects |
| **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol**<br>CAS No.: 95-38-5<br>EC No.: 202-414-9 | 14 mg/m³ | ① DNEL worker<br>② Acute - inhalation, systemic effects |
| **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol**<br>CAS No.: 95-38-5<br>EC No.: 202-414-9 | 0.06 mg/kg bw/day | ① DNEL worker<br>② Long-term - dermal, systemic effects |

| Substance name | DNEL value | ① DNEL type<br>② Exposure route |
|---|---|---|
| **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol**<br>CAS No.: 95-38-5<br>EC No.: 202-414-9 | 2 mg/kg bw/day | ① DNEL worker<br>② Acute – dermal, systemic effects |

| Substance name | PNEC Value | ① PNEC type |
|---|---|---|
| **methyl salicylate**<br>CAS No.: 119-36-8<br>EC No.: 204-317-7 | 20 µg/L | ① PNEC aquatic, freshwater |
| **methyl salicylate**<br>CAS No.: 119-36-8<br>EC No.: 204-317-7 | 2 µg/L | ① PNEC aquatic, marine water |
| **methyl salicylate**<br>CAS No.: 119-36-8<br>EC No.: 204-317-7 | 140 mg/L | ① PNEC sewage treatment plant |
| **methyl salicylate**<br>CAS No.: 119-36-8<br>EC No.: 204-317-7 | 0.52 mg/kg bw/day | ① PNEC sediment, freshwater |
| **methyl salicylate**<br>CAS No.: 119-36-8<br>EC No.: 204-317-7 | 0.052 mg/kg bw/day | ① PNEC sediment, marine water |
| **methyl salicylate**<br>CAS No.: 119-36-8<br>EC No.: 204-317-7 | 0.35 mg/kg bw/day | ① PNEC soil |
| **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol**<br>CAS No.: 95-38-5<br>EC No.: 202-414-9 | 0 mg/L | ① PNEC aquatic, freshwater |
| **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol**<br>CAS No.: 95-38-5<br>EC No.: 202-414-9 | 0 mg/L | ① PNEC aquatic, marine water |
| **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol**<br>CAS No.: 95-38-5<br>EC No.: 202-414-9 | 0.27 mg/L | ① PNEC sewage treatment plant |
| **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol**<br>CAS No.: 95-38-5<br>EC No.: 202-414-9 | 0.376 mg/kg | ① PNEC sediment, freshwater |
| **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol**<br>CAS No.: 95-38-5<br>EC No.: 202-414-9 | 0.038 mg/kg | ① PNEC sediment, marine water |
| **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol**<br>CAS No.: 95-38-5<br>EC No.: 202-414-9 | 0.075 mg/kg | ① PNEC soil |
| **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol**<br>CAS No.: 95-38-5<br>EC No.: 202-414-9 | 0 mg/L | ① PNEC aquatic, intermittent release |

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

Ensure good ventilation/extraction at the workplace. If this is not sufficient to keep the concentration below the occupational exposure limits (OEL), suitable respiratory protection must be worn. Applies only if exposure limit values are listed here. Appropriate assessment methods for checking the effectiveness of the protective measures taken include metrological and non-measured determination methods. Such

methods are described by e.g. EN 14042, TRGS 402 (Germany). EN 14042 "Workplace atmospheres. Guidance for the application and use of methods and equipment for the determination of chemical and biological agents". TRGS 402 "Determining and assessing the hazards of activities involving hazardous substances - Inhalation exposure".

### 8.2.2. Personal protection equipment

**Eye/face protection:**
Safety goggles with side shields (EN 166).

**Skin protection:**
Hand protection:
Chemical-resistant protective gloves (EN ISO 374). Protective gloves made of Neoprene® / polychloroprene (EN ISO 374). Protective gloves made of nitrile (EN ISO 374). Protective gloves in Viton® / in fluoroelastomer (EN ISO 374). Minimum layer thickness in mm: 0.5. Permeation time (breakthrough time) in minutes: 480. The breakthrough times determined according to EN 16523-1 were not carried out under practical conditions. A maximum wearing time corresponding to 50% of the breakthrough time is recommended. Hand protection cream recommended. Selection of glove material considering breakthrough times, permeation rates and degradation. The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to manufacturer.

Skin protection:
Protective work clothing (e.g. safety shoes EN ISO 20345, long-sleeved work clothing).

**Respiratory protection:**
Filter A2/P2 EN 14387; Identification colour: brown white
Observe the wear time limits as specified by the manufacturer.

**Other protection measures:**
The usual precautions when handling chemicals must be observed.

### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

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

**Appearance**

**Physical state:** Liquid
**Colour:** colourless
**flammability:** No data available
**Form:** Aerosol
**Odour:** characteristic

**Safety relevant basis data**

| Parameter | Value | at °C | ① Method<br>② Remark |
|---|---|---|---|
| pH | *not applicable* | | ② insoluble in: Water |
| Melting point | *No data available* | | |
| Freezing point | *No data available* | | |
| Initial boiling point and boiling range | *No data available* | | |
| Flash point | -60 °C | | ② The flash point of the mixture was not tested, but corresponds to that of the ingredient with the lowest value |
| Evaporation rate | *No data available* | | |
| Auto-ignition temperature | *No data available* | | |
| Upper/lower flammability or explosive limits | *No data available* | | |
| Vapour pressure | 4,000 hPa | 20 °C | |
| Vapour density | *No data available* | | |
| Density | 0.73 g/mL | | |
| Bulk density | *not applicable* | | |

| Parameter | Value | at °C | ① Method<br>② Remark |
|---|---|---|---|
| Water solubility | practically insoluble | | |
| Dynamic viscosity | *No data available* | | |
| Kinematic viscosity | *No data available* | | |

### 9.2. Other information
No data available

## SECTION 10: Stability and reactivity

* **10.1. Reactivity**
The product has not been tested.

### 10.2. Chemical stability
Stable under normal conditions.

### 10.3. Possibility of hazardous reactions
No dangerous reactions known.

### 10.4. Conditions to avoid
Direct sunlight, heat, open flames, sparks, hot surfaces, sources of ignition.Pressurised container: May burst if heated.

### 10.5. Incompatible materials
Avoid contact with strong oxidising agents.

### 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**

| |
|---|
| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane** EC No.: 921-024-6 |
| **$LD_{50}$ oral:** >5,000 mg/kg (Rat) OECD 401 |
| **$LD_{50}$ dermal:** >2,920 mg/kg (Rabbit) |
| **$LC_{50}$ Acute inhalation toxicity (gas):** >20 ppmV 4 h (Rat) OECD 403 |
| **$LC_{50}$ Acute inhalation toxicity (vapour):** >25.2 mg/L 4 h (Rat) |
| **Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics** CAS No.: 64742-48-9 EC No.: 918-481-9 |
| **$LD_{50}$ oral:** >8,000 mg/kg (Rat) |
| **$LD_{50}$ dermal:** >3,160 mg/kg (Rabbit) |
| **$LC_{50}$ Acute inhalation toxicity (vapour):** >0.004951 mg/L 4 h (Rat) OECD 403 |
| **$LC_{50}$ Acute inhalation toxicity (dust/mist):** >4,951 mg/L |
| **Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, aromatics (2-25 %)** CAS No.: 64742-82-1 EC No.: 919-164-8 |
| **$LD_{50}$ oral:** >15,000 mg/kg (Rat) |
| **$LD_{50}$ dermal:** >3,400 mg/kg (Rabbit) OECD 403 |
| **$LC_{50}$ Acute inhalation toxicity (vapour):** >13.1 mg/L 4 h (Rat) OECD 401 |
| **$LC_{50}$ Acute inhalation toxicity (dust/mist):** 13.1 mg/L 4 h (Rat) |
| **methyl salicylate** CAS No.: 119-36-8 EC No.: 204-317-7 |
| **$LD_{50}$ oral:** 890 mg/kg (#RENDERER_HINT_HIDE_STRING#) |
| **$LD_{50}$ dermal:** >5,000 mg/kg (Kaninchen) |

| **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol** CAS No.: 95-38-5 EC No.: 202-414-9 |
|---|
| **ATE (oral):** 1,265 mg/kg |
| **$LD_{50}$ oral:** 1,085 mg/kg (Rat) |
| **$LD_{50}$ dermal:** >2,000 mg/kg (Rabbit) |

**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.

**Skin corrosion/irritation:**
Causes skin 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 methyl salicylate. May produce an allergic reaction. 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.

**STOT-repeated exposure:**
May cause damage to organs through prolonged or repeated exposure.

**Aspiration hazard:**
May be fatal if swallowed and enters airways.

**Additional information:**
No data available

### 11.2. Information on other hazards
No data available

## SECTION 12: Ecological information

* 

### 12.1. Toxicity

| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane** EC No.: 921-024-6 |
|---|
| **$LC_{50}$:** 11.4 mg/L 4 d (fish, Oncorhynchus mykiss) OECD 203 |
| **$EC_{50}$:** 3 mg/L 2 d (crustaceans, Daphnia magna) OECD 202 |
| **NOEC:** 0.17 mg/L 21 d (crustaceans, Daphnia magna) OECD 211 |
| **LOEC:** 0.32 mg/L 21 d (crustaceans, Daphnia magna) |
| **$EC_{50}$:** 30 – 100 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) |
| **$LC_{50}$:** >1 – 10 mg/L 4 d (fish, Pimephales promelas) |
| **$EC_{50}$:** >1 – 10 mg/L 2 d (crustaceans, Daphnia magna) |
| **NOEC:** 2.045 mg/L 28 d (fish, Oncorhynchus mykiss) |
| **NOEC:** 1 mg/L 21 d (crustaceans, Daphnia magna) OECD 211 |
| **$ErC_{50}$:** 10 – 30 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201 |
| **LOEC:** 0.32 mg/L 21 d (Daphnia magna) |
| **$LC_{50}$:** 11.4 mg/L 4 d (fish) |

| |
|---|
| **Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics** CAS No.: 64742-48-9 EC No.: 918-481-9 |
| **$LC_{50}$:** >1,000 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) |
| **$LC_{50}$:** >1,000 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) |
| **$EC_{50}$:** >1,000 mg/L 2 d (crustaceans, Daphnia magna) |
| **$ErC_{50}$:** >1,000 mg/L 4 d (Algae/water plant, Scenedesmus subspicatus) |
| **$LC_{50}$:** >1,000 mg/L 4 d (fish, Oncorhynchus mykiss) OECD 203 |
| **$EC_{50}$:** >1,000 mg/L (crustaceans, Daphnia magna) OECD 202 |
| **Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, aromatics (2-25 %)** CAS No.: 64742-82-1 EC No.: 919-164-8 |
| **$ErC_{50}$:** 4.1 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201 |
| **$EC_{50}$:** 10 – 22 mg/L 2 d (crustaceans, Daphnia magna) OECD 202 |
| **NOEC:** 0.13 mg/L 28 d (fish, Oncorhynchus mykiss) |
| **NOEC:** 0.28 mg/L 21 d (crustaceans, Daphnia magna) OECD 211 |
| **NOEC:** 0.097 mg/L 21 d (crustaceans, Daphnia magna) |
| **methyl salicylate** CAS No.: 119-36-8 EC No.: 204-317-7 |
| **$LC_{50}$:** 19.8 mg/L 4 d (fish, Pimephales promelas) OECD 203 |
| **$EC_{50}$:** 27 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) OECD 201 |
| **NOEC:** 0.79 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) Regulation (EC) 440/2008 C.3 |
| **$LC_{50}$:** 19.8 mg/L 4 d (fish, Pimephales promelas) OECD 203 |
| **$EC_{50}$:** 870 mg/L 2 d (crustaceans, Daphnia magna) OECD 202 |
| **$EC_{50}$:** 28 mg/L 2 d (crustaceans, Daphnia magna) OECD 202 |
| **NOEC:** 0.79 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) |
| **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol** CAS No.: 95-38-5 EC No.: 202-414-9 |
| **$LC_{50}$:** 0.3 mg/L 4 d (fish, Danio rerio) |
| **$ErC_{50}$:** 0.03 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) OECD 201 |
| **$EC_{50}$:** 0.163 mg/L 2 d (crustaceans, Daphnia magna) OECD 202 |
| **$LC_{50}$:** 0.3 mg/L 4 d (fish, Brachydanio rerio) OECD 203 |
| **$EC_{50}$:** 0.136 mg/L 2 d (crustaceans, Daphnia magna) OECD 202 |
| **$EC_{50}$:** 0.03 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) OECD 201 |

**Aquatic toxicity:**
Harmful to aquatic life with long lasting effects.

* 
## 12.2. Persistence and degradability

| |
|---|
| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane** EC No.: 921-024-6 |
| **Biodegradation:** Yes, rapidly |
| **Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics** CAS No.: 64742-48-9 EC No.: 918-481-9 |
| **Biodegradation:** Yes, rapidly |
| **Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, aromatics (2-25 %)** CAS No.: 64742-82-1 EC No.: 919-164-8 |
| **Biodegradation:** Yes, rapidly |
| **methyl salicylate** CAS No.: 119-36-8 EC No.: 204-317-7 |
| **Biodegradation:** Yes, rapidly |
| **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol** CAS No.: 95-38-5 EC No.: 202-414-9 |
| **Biodegradation:** Yes, slowly |

### * 12.3. Bioaccumulative potential

| |
|---|
| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane** EC No.: 921-024-6 |
| **Log $K_{OW}$:** 5.2 |
| **Bioconcentration factor (BCF):** 250 |
| **Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics** CAS No.: 64742-48-9 EC No.: 918-481-9 |
| **Log $K_{OW}$:** 7.2 |
| **Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, aromatics (2-25 %)** CAS No.: 64742-82-1 EC No.: 919-164-8 |
| **Log $K_{OW}$:** 4.2 |
| **methyl salicylate** CAS No.: 119-36-8 EC No.: 204-317-7 |
| **Log $K_{OW}$:** 2.5 |
| **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol** CAS No.: 95-38-5 EC No.: 202-414-9 |
| **Log $K_{OW}$:** 8.4 |
| **Bioconcentration factor (BCF):** 371.8 |

### 12.4. Mobility in soil

No data available

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

| |
|---|
| **Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane** EC No.: 921-024-6 |
| **Results of PBT and vPvB assessment:** — |
| **Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics** CAS No.: 64742-48-9 EC No.: 918-481-9 |
| **Results of PBT and vPvB assessment:** — |
| **Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, aromatics (2-25 %)** CAS No.: 64742-82-1 EC No.: 919-164-8 |
| **Results of PBT and vPvB assessment:** — |
| **methyl salicylate** CAS No.: 119-36-8 EC No.: 204-317-7 |
| **Results of PBT and vPvB assessment:** — |
| **2-(2-heptadec-8-enyl-2-imidazolin-1-yl)ethanol** CAS No.: 95-38-5 EC No.: 202-414-9 |
| **Results of PBT and vPvB assessment:** — |

### 12.6. Endocrine disrupting properties

No data available

### * 12.7. Other adverse effects

water hazard class 2: obviously hazardous to water

## SECTION 13: Disposal considerations

### * 13.1. Waste treatment methods

The waste codes given are recommendations based on the expected use of this product. Due to the specific use and disposal conditions at the user's site, other waste codes may be assigned under certain circumstances. (2014/955/EU)

#### 13.1.1. Product/Packaging disposal

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

**Waste code product**

| | |
|---|---|
| 16 05 04 * | Gases in pressure containers (including halons) containing hazardous substances |

**: 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 / Product:**
Consult the appropriate local waste disposal expert about waste disposal. Dispose of waste according to applicable legislation.

**Appropriate disposal / Package:**
Do not pierce or burn, even after use. Dispose of waste according to applicable legislation.

**Other disposal recommendations:**
Do not allow to enter into surface water or drains.

## SECTION 14: Transport information

| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|---|---|---|---|
| **14.1. UN number or ID number** | | | |
| UN 1950 | UN 1950 | UN 1950 | UN 1950 |
| **14.2. UN proper shipping name** | | | |
| AEROSOLS | AEROSOLS | AEROSOLS | AEROSOLS |
| **14.3. Transport hazard class(es)** | | | |
| 2.1 | 2.1 | 2.1 | 2.1 |
| **14.4. Packing group** | | | |
| | | - | |
| * **14.5. Environmental hazards** | | | |
| No data available | No data available | No data available | No data available |
| **14.6. Special precautions for user** | | | |
| **Special Provisions:** 190 \| 327 \| 344 \| 625<br>**Limited quantity (LQ):** 1 L<br>**Excepted Quantities (EQ):** E0<br>**Classification code:** 5F<br>**Tunnel restriction code:** (D)<br>**Remark:** Persons engaged in the carriage of dangerous goods shall be instructed. Safety regulations shall be observed by all persons involved in the carriage. Precautions shall be taken to prevent damage. | **Special Provisions:** 190 \| 327 \| 344 \| 625<br>**Limited quantity (LQ):** 1 L<br>**Excepted Quantities (EQ):** E0<br>**Classification code:** 5F | **Special Provisions:** 63 \| 190 \| 277 \| 327 \| 344 \| 381 \| 959<br>**Limited quantity (LQ):** Siehe SV277<br>**Excepted Quantities (EQ):** E0<br>**EmS-No.:** F-D, S-U<br>**Remark:** Persons engaged in the carriage of dangerous goods shall be instructed. Safety regulations shall be observed by all persons involved in the carriage. Precautions shall be taken to prevent damage. | **Special Provisions:** A145 \| A167<br>**Limited quantity (LQ):** Y203<br>**Excepted Quantities (EQ):** E0<br>**Remark:** Persons engaged in the carriage of dangerous goods shall be instructed. Safety regulations shall be observed by all persons involved in the carriage. Precautions shall be taken to prevent damage. |

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

The freight is not carried as bulk goods but as general cargo, therefore not applicable. Minimum quantity regulations are not observed here. Hazard number and packaging code on request. Please observe the special provisions.

## 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:**

Directive 2012/18/EU
Seveso category Annex I Part 1
P3a FLAMMABLE AEROSOLS; Note Appendix I: 11.1;
Quantity threshold (in tonnes) for dangerous substances referred to in Article 3(10) for the application of - requirements for lower-tier establishments 150 t
Quantity threshold (in tonnes) for dangerous substances referred to in Article 3(10) for the application of - requirements for upper-tier establishments 500 t
Seveso category Annex I Part 2
entry 18, Note Appendix I 19
Quantity threshold (in tons) for use in lower class farms 50 t
Quantity threshold (in tons) for use in upper-tier establishments 200t
Regulation (EC) No. 648/2004 [Detergents regulation]: 30 % and above: aliphatic hydrocarbons. Less than 5 %: aromatic hydrocarbons, fragrances.
methyl salicylate
Ensure compliance with the occupational exposure limit value(s) (OEL) and/or other limit values

**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
• E2 Hazardous to the Aquatic Environment in Category Chronic 2

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

Volatile organic compounds (VOC) content in percent by weight: 98.35 weight-%

### 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 |
| 2.1. | Classification of the substance or mixture |
| 2.2. | Label elements |
| 3.2. | Mixtures |
| 4.1. | Description of first aid measures |
| 4.2. | Most important symptoms and effects, both acute and delayed |
| 4.3. | Indication of any immediate medical attention and special treatment needed |
| 7.1. | Precautions for safe handling |
| 8.1. | Control parameters |
| 9.1. | Information on basic physical and chemical properties |
| 10.1. | Reactivity |
| 11.1. | Information on hazard classes as defined in Regulation (EC) No 1272/2008 |
| 12.1. | Toxicity |
| 12.2. | Persistence and degradability |
| 12.3. | Bioaccumulative potential |
| 12.5. | Results of PBT and vPvB assessment |
| 12.7. | Other adverse effects |
| 13.1. | Waste treatment methods |

| | |
|---|---|
| 14.5. | Environmental hazards |
| 14.7. | Maritime transport in bulk according to IMO instruments |
| 15.1. | Safety, health and environmental regulations/legislation specific for the substance or mixture |
| 16.1. | Indication of changes |
| 16.2. | Abbreviations and acronyms |
| 16.5. | List of relevant hazard statements and/or precautionary statements from sections 2 to 15 |

* 
### 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 |
| BCF | Bioconcentration Factor |
| CAS | Chemical Abstracts Service |
| CLP | Classification, Labelling and Packaging |
| DNEL | derived no-effect level |
| $EC_{50}$ | Effective Concentration 50% |
| EN | European Standard |
| ES | Exposure scenario |
| EWC | European Waste Catalogue |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods |
| IMO | International Maritime Organization |
| KG | body weight |
| $LC_{50}$ | Lethal (fatal) Concentration 50% |
| $LD_{50}$ | 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 |
| OEL | Threshold Limit Value |
| OSHA | Occupational Safety & Health Administration |
| PBT | persistent and bioaccumulative and toxic |
| PNEC | Predicted No Effect Concentration |
| QSAR | Quantitative Structure-Activity Relationship |
| 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 |

### 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 *(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. |
| Skin corrosion/irritation *(Skin Irrit. 2)* | H315: Causes skin irritation. | Calculation method. |
| STOT-repeated exposure *(STOT RE 2)* | H373: May cause damage to organs through prolonged or repeated exposure. | Calculation method. |

| Hazard classes and hazard categories | Hazard statements | Classification procedure |
|---|---|---|
| Hazardous to the aquatic environment *(Aquatic Chronic 3)* | H412: Harmful 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 | |
|---|---|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful 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. |
| H336 | May cause drowsiness or dizziness. |
| H361d | Suspected of damaging the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

### 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.