## Food Lube Extreme Aerosol 400ml

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

### 1.1. Product identifier

**Trade name/designation:**

Food Lube Extreme Aerosol 400ml

**Article No.:**
T203002

**UFI:**
4AE2-U0MY-CWS1-UEMS

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

### * 2.2. Label elements

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

**Hazard pictograms:**

**GHS02**
Flame

**GHS07**
Exclamation mark

**Signal word:** Danger

**Hazard components for labelling:**
Hydrocarbons, C7-C9, iso-alkanes

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

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

| Supplemental hazard information | |
|---|---|
| EUH208 | Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts; Sulfonic acids, petroleum, sodium salts; Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts. 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. |
| P261 | Avoid breathing spray. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves. |

| Precautionary statements Response | |
|---|---|
| P302 + P352 | IF ON SKIN: Wash with plenty of water and soap. |
| P304 + P312 | IF INHALED: Call a POISON CENTER/doctor/ / if you feel unwell. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/attention. |

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

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## 2.3. Other hazards

**Other adverse effects:**
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.
In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

## SECTION 3: Composition/information on ingredients

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### 3.2. Mixtures

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

| Product identifiers | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|---|---|---|
| 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 | **isobutane**<br>Flam. Gas 1A (H220), Press. Gas (Liq.) (H280)<br>Danger<br>**Acute Toxicity Estimate**<br>ATE (oral) > 15,000 mg/kg<br>ATE (dermal) > 5,000 mg/kg<br>ATE (inhalation, vapour) > 4,951 mg/L | 50 – < 100<br>Vol-% |
| CAS No.: 64741-66-8<br>EC No.: 921-728-3<br>REACH No.:<br>01-2119471305-42 | **Hydrocarbons, C7-C9, iso-alkanes**<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) > 2,000 mg/kg<br>ATE (inhalation, vapour) 21 mg/L<br>ATE (inhalation, dust/mist) > 9.4 mg/L | 10 – < 20<br>Vol-% |
| CAS No.: 74-98-6<br>EC No.: 200-827-9<br>REACH No.:<br>01-2119486944-21 | **propane**<br>Flam. Gas 1A (H220), Press. Gas (Liq.) (H280)<br>Danger<br>**Acute Toxicity Estimate**<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 | 5 – < 10<br>Vol-% |
| CAS No.: 90622-57-4<br>EC No.: 918-167-1<br>REACH No.:<br>01-2119472146-39 | **Hydrocarbons, C11-C12, isoalkanes, <2% aromatics**<br>Asp. Tox. 1 (H304), Flam. Liq. 3 (H226)<br>Danger<br>**Acute Toxicity Estimate**<br>ATE (oral) > 5,000 mg/kg<br>ATE (dermal) > 5,000 mg/kg<br>ATE (inhalation, gases) > 5,000 ppmV<br>ATE (inhalation, vapour) > 25 mg/L<br>**Additional information:** EUH066 | 5 – < 10<br>Vol-% |
| CAS No.: 106-97-8<br>EC No.: 203-448-7<br>Index No.: 601-004-00-0<br>REACH No.:<br>01-2119474691-32 | **butane**<br>Flam. Gas 1A (H220), Press. Gas (Liq.) (H280)<br>Danger<br>**Acute Toxicity Estimate**<br>ATE (oral) > 2,000 mg/kg<br>ATE (dermal) > 2,000 mg/kg<br>ATE (inhalation, gases) 658 ppmV<br>ATE (inhalation, vapour) > 800,000 mg/L | 1 – < 3<br>Vol-% |
| CAS No.: 68411-46-1<br>EC No.: 270-128-1<br>REACH No.:<br>01-2119491299-23 | **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene**<br>Aquatic Chronic 3 (H412), Repr. 2 (H361f)<br>Warning<br>**Acute Toxicity Estimate**<br>ATE (oral) > 5,000 mg/kg<br>ATE (dermal) > 2,000 mg/kg<br>ATE (inhalation, dust/mist) > 5 mg/L | 0.1 – < 1<br>Vol-% |

| Product identifiers | Substance name<br>Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|---|---|---|
| CAS No.: 61789-86-4<br>EC No.: 263-093-9<br>REACH No.:<br>01-2119488992-18 | **Sulfonic acids, petroleum, calcium salts**<br>Skin Sens. 1B (H317)<br>Warning<br>**Specific concentration limit (SCL)**<br>Skin Sens. 1B; H317: 10% ≤ C < 100%<br>**Acute Toxicity Estimate**<br>ATE (oral) > 16,000 mg/kg<br>ATE (dermal) > 5,000 mg/kg | 0.1 – < 1<br>Vol-% |
| CAS No.: 70024-69-0<br>EC No.: 274-263-7<br>REACH No.:<br>01-2119492616-28 | **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts**<br>Skin Sens. 1B (H317)<br>Warning<br>**Specific concentration limit (SCL)**<br>Skin Sens. 1B; H317: 10% ≤ C < 100%<br>**Acute Toxicity Estimate**<br>ATE (oral) > 16,000 mg/kg<br>ATE (dermal) > 4,000 mg/kg<br>ATE (inhalation, dust/mist) > 5 mg/L | 0.1 – < 1<br>Vol-% |
| CAS No.: 68584-23-6<br>EC No.: 271-529-4<br>REACH No.:<br>01-2119492627-25 | **Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts**<br>Skin Sens. 1B (H317)<br>Warning<br>**Specific concentration limit (SCL)**<br>Skin Sens. 1B; H317: 10% ≤ C < 100%<br>**Acute Toxicity Estimate**<br>ATE (oral) > 5,000 mg/kg<br>ATE (dermal) > 5,000 mg/kg<br>ATE (inhalation, dust/mist) > 5 mg/L | 0.1 – < 1<br>Vol-% |

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

## SECTION 4: First aid measures

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### 4.1. Description of first aid measures

**General information:**
First aider: Pay attention to self-protection! Remove persons to safety. Never give anything by mouth to an unconscious person or a person with cramps.

**Following inhalation:**
IF INHALED: Remove person to fresh air and keep comfortable for breathing. When in doubt or if symptoms are observed, get medical advice.

**In case of skin contact:**
Wash with plenty of water and soap. Take off immediately all contaminated clothing and wash it before reuse. When in doubt or if symptoms are observed, get medical advice.

**After eye contact:**
IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

**Following ingestion:**
Observe risk of aspiration if vomiting occurs. Call a physician in any case!

**Self-protection of the first aider:**
Use personal protection equipment.

### 4.2. Most important symptoms and effects, both acute and delayed
Headache, Nausea, Dizziness, Fatigue, Skin irritation

### 4.3. Indication of any immediate medical attention and special treatment needed
Treat symptomatically. Call a POISON CENTER. Symptoms can occur only after several hours.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media
**Suitable extinguishing media:**
Water mist, Foam, Carbon dioxide (CO2), Extinguishing powder

**Unsuitable extinguishing media:**
Full water jet

### 5.2. Special hazards arising from the substance or mixture
Incomplete combustion and thermolysis can produce gases of varying toxicity. In the case of products containing hydrocarbons, e.g. CO, CO2, aldehydes and soot. These can be very dangerous if inhaled in high concentrations or in enclosed spaces.

### 5.3. Advice for firefighters
Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely. In case of fire: Wear self-contained breathing apparatus.

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### 5.4. Additional information
Pressurised container: May burst if heated. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures
#### 6.1.1. For non-emergency personnel
**Personal precautions:**
Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove all sources of ignition. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use personal protection equipment. First aider: Pay attention to self-protection!

#### 6.1.2. For emergency responders
**Personal protection equipment:**
Fight fire with normal precautions from a reasonable distance.

### 6.2. Environmental precautions
Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers). Ensure all waste water is collected and treated via a waste water treatment plant.

### 6.3. Methods and material for containment and cleaning up
**For containment:**
Prevent spread over a wide area (e.g. by containment or oil barriers).
**For cleaning up:**
Clean contaminated articles and floor according to the environmental legislation.
**Other information:**
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Clean contaminated articles and floor according to the environmental legislation.

### 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
#### Protective measures
**Advices on safe handling:**
Observe instructions for use.
Dust must be exhausted directly at the point of origin. Vapours/aerosols must be exhausted directly at the point of origin. If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.
When using do not eat, drink, smoke, sniff.
Wear personal protection equipment (refer to section 8).
In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.
Avoid contact with eyes and skin.

**Fire prevent measures:**
Keep away from sources of ignition - No smoking. Heating causes rise in pressure with risk of bursting.

**Advices on general occupational hygiene**
Avoid exposure - obtain special instructions before use. Wear suitable work clothing. Draw up and observe skin protection programme.

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

**Requirements for storage rooms and vessels:**
Keep container tightly closed. The official regulations for the storage of pressurised gas packages must be observed.

**Hints on storage assembly:**
Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances. Keep away from food, drink and animal feed.

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

**Further information on storage conditions:**
Protect from frost. Protect from direct sunlight. Store in a cool dry place. The official regulations for the storage of pressurised gas packages must be observed.

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### 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) | **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) |
| 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) | **Hydrocarbons, C11-C12, isoalkanes, <2% aromatics**<br>CAS No.: 90622-57-4<br>EC No.: 918-167-1 | 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, C11-C12, isoalkanes, <2% aromatics**<br>CAS No.: 90622-57-4<br>EC No.: 918-167-1 | 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) | **butane**<br>CAS No.: 106-97-8<br>EC No.: 203-448-7 | ① 800 ppm (1,900 mg/m³) |

| 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) | **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) |

### 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, C7-C9, iso-alkanes**<br>CAS No.: 64741-66-8<br>EC No.: 921-728-3 | 2,035 mg/m³ | ① DNEL worker<br>② Long-term – inhalation, systemic effects |
| **Hydrocarbons, C7-C9, iso-alkanes**<br>CAS No.: 64741-66-8<br>EC No.: 921-728-3 | 608 mg/m³ | ① DNEL Consumer<br>② Long-term – inhalation, systemic effects |
| **Hydrocarbons, C7-C9, iso-alkanes**<br>CAS No.: 64741-66-8<br>EC No.: 921-728-3 | 773 mg/kg bw/day | ① DNEL worker<br>② Long-term - dermal, systemic effects |
| **Hydrocarbons, C7-C9, iso-alkanes**<br>CAS No.: 64741-66-8<br>EC No.: 921-728-3 | 699 mg/kg bw/day | ① DNEL Consumer<br>② Long-term - dermal, systemic effects |
| **Hydrocarbons, C7-C9, iso-alkanes**<br>CAS No.: 64741-66-8<br>EC No.: 921-728-3 | 699 mg/kg bw/day | ① DNEL Consumer<br>② Long-term - oral, systemic effects |
| **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene**<br>CAS No.: 68411-46-1<br>EC No.: 270-128-1 | 0.6 mg/m³ | ① DNEL worker<br>② Long-term – inhalation, systemic effects |
| **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene**<br>CAS No.: 68411-46-1<br>EC No.: 270-128-1 | 0.14 mg/m³ | ① DNEL Consumer<br>② Long-term – inhalation, systemic effects |
| **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene**<br>CAS No.: 68411-46-1<br>EC No.: 270-128-1 | 0.08 mg/kg bw/day | ① DNEL worker<br>② Long-term - dermal, systemic effects |
| **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene**<br>CAS No.: 68411-46-1<br>EC No.: 270-128-1 | 0.04 mg/kg bw/day | ① DNEL Consumer<br>② Long-term - dermal, systemic effects |
| **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene**<br>CAS No.: 68411-46-1<br>EC No.: 270-128-1 | 0.04 mg/kg bw/day | ① DNEL Consumer<br>② Long-term - oral, systemic effects |
| **Sulfonic acids, petroleum, calcium salts**<br>CAS No.: 61789-86-4<br>EC No.: 263-093-9 | 11.75 mg/m³ | ① DNEL worker<br>② Long-term – inhalation, systemic effects |
| **Sulfonic acids, petroleum, calcium salts**<br>CAS No.: 61789-86-4<br>EC No.: 263-093-9 | 2.9 mg/m³ | ① DNEL Consumer<br>② Long-term – inhalation, systemic effects |

| Substance name | DNEL value | ① DNEL type<br>② Exposure route |
|---|---|---|
| **Sulfonic acids, petroleum, calcium salts**<br>CAS No.: 61789-86-4<br>EC No.: 263-093-9 | 3.33 mg/kg bw/day | ① DNEL worker<br>② Long-term - dermal, systemic effects |
| **Sulfonic acids, petroleum, calcium salts**<br>CAS No.: 61789-86-4<br>EC No.: 263-093-9 | 1.667 mg/kg bw/day | ① DNEL Consumer<br>② Long-term - dermal, systemic effects |
| **Sulfonic acids, petroleum, calcium salts**<br>CAS No.: 61789-86-4<br>EC No.: 263-093-9 | 1.03 mg/cm² | ① DNEL worker<br>② Long-term - dermal, local effects |
| **Sulfonic acids, petroleum, calcium salts**<br>CAS No.: 61789-86-4<br>EC No.: 263-093-9 | 0.513 mg/cm² | ① DNEL Consumer<br>② Long-term - dermal, local effects |
| **Sulfonic acids, petroleum, calcium salts**<br>CAS No.: 61789-86-4<br>EC No.: 263-093-9 | 0.833 mg/kg bw/day | ① DNEL Consumer<br>② Long-term - oral, systemic effects |
| **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts**<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 11.75 mg/m³ | ① DNEL worker<br>② Long-term – inhalation, systemic effects |
| **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts**<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 2.9 mg/m³ | ① DNEL Consumer<br>② Long-term – inhalation, systemic effects |
| **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts**<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 3.33 mg/kg bw/day | ① DNEL worker<br>② Long-term - dermal, systemic effects |
| **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts**<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 1.667 mg/kg bw/day | ① DNEL Consumer<br>② Long-term - dermal, systemic effects |
| **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts**<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 1.03 mg/cm² | ① DNEL worker<br>② Long-term - dermal, local effects |
| **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts**<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 0.513 mg/cm² | ① DNEL Consumer<br>② Long-term - dermal, local effects |
| **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts**<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 0.833 mg/kg bw/day | ① DNEL Consumer<br>② Long-term - oral, systemic effects |

| Substance name | PNEC Value | ① PNEC type |
|---|---|---|
| **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene**<br>CAS No.: 68411-46-1<br>EC No.: 270-128-1 | 0.034 mg/L | ① PNEC aquatic, freshwater |
| **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene**<br>CAS No.: 68411-46-1<br>EC No.: 270-128-1 | 0.003 mg/L | ① PNEC aquatic, marine water |

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| Substance name | PNEC Value | ① PNEC type |
|---|---|---|
| **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene**<br>CAS No.: 68411-46-1<br>EC No.: 270-128-1 | 10 mg/L | ① PNEC sewage treatment plant |
| **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene**<br>CAS No.: 68411-46-1<br>EC No.: 270-128-1 | 0.446 mg/kg | ① PNEC sediment, freshwater |
| **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene**<br>CAS No.: 68411-46-1<br>EC No.: 270-128-1 | 0.045 mg/kg | ① PNEC sediment, marine water |
| **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene**<br>CAS No.: 68411-46-1<br>EC No.: 270-128-1 | 1.76 mg/kg | ① PNEC soil |
| **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene**<br>CAS No.: 68411-46-1<br>EC No.: 270-128-1 | 0.51 mg/L | ① PNEC aquatic, intermittent release |
| **Sulfonic acids, petroleum, calcium salts**<br>CAS No.: 61789-86-4<br>EC No.: 263-093-9 | 1 mg/L | ① PNEC aquatic, freshwater |
| **Sulfonic acids, petroleum, calcium salts**<br>CAS No.: 61789-86-4<br>EC No.: 263-093-9 | 1 mg/L | ① PNEC aquatic, marine water |
| **Sulfonic acids, petroleum, calcium salts**<br>CAS No.: 61789-86-4<br>EC No.: 263-093-9 | 1,000 mg/L | ① PNEC sewage treatment plant |
| **Sulfonic acids, petroleum, calcium salts**<br>CAS No.: 61789-86-4<br>EC No.: 263-093-9 | 226,000,000 mg/kg | ① PNEC sediment, freshwater |
| **Sulfonic acids, petroleum, calcium salts**<br>CAS No.: 61789-86-4<br>EC No.: 263-093-9 | 226,000,000 mg/kg | ① PNEC sediment, marine water |
| **Sulfonic acids, petroleum, calcium salts**<br>CAS No.: 61789-86-4<br>EC No.: 263-093-9 | 271,000,000 mg/kg | ① PNEC soil |
| **Sulfonic acids, petroleum, calcium salts**<br>CAS No.: 61789-86-4<br>EC No.: 263-093-9 | 16.667 mg/kg | ① PNEC secondary poisoning |
| **Sulfonic acids, petroleum, calcium salts**<br>CAS No.: 61789-86-4<br>EC No.: 263-093-9 | 10 mg/L | ① PNEC aquatic, intermittent release |
| **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts**<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 1 | ① PNEC aquatic, freshwater |
| **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts**<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 1 | ① PNEC aquatic, marine water |

| Substance name | PNEC Value | ① PNEC type |
|---|---|---|
| **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts**<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 1,000 | ① PNEC sewage treatment plant |
| **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts**<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 226,000,000 | ① PNEC sediment, freshwater |
| **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts**<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 226,000,000 | ① PNEC sediment, marine water |
| **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts**<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 271,000,000 | ① PNEC soil |
| **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts**<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 10 | ① PNEC secondary poisoning |
| **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts**<br>CAS No.: 70024-69-0<br>EC No.: 274-263-7 | 16.667 | ① PNEC secondary poisoning |

* 
## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls
If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

### 8.2.2. Personal protection equipment

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

**Skin protection:**
Hand protection:
Use protective skin cream before handling the product. When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
Suitable material: NBR (Nitrile rubber), Breakthrough time: 480 min.
Thickness of the glove material: 0,45 mm
EN ISO 374

Body protection:
Wear suitable work clothing. Take off immediately all contaminated clothing and wash it before reuse.

**Respiratory protection:**
Wear breathing apparatus if exposed to vapours/dusts/aerosols.
If the relevant occupational exposure limits are exceeded, the following must be observed: Suitable respiratory protective device: Combination filter device (DIN EN 141). Filter unit with filter or blower filter unit type: AX
Observe the wear time limits as specified by the manufacturer.
Observe legal rules and regulations.

### 8.2.3. Environmental exposure controls
Observe legal rules and regulations.

## SECTION 9: Physical and chemical properties

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

**Appearance**

**Form:** Aerosol
**Colour:** brown
**Odour:** Mineral oil
**flammability:** No data available

**Safety relevant basis data**

| Parameter | Value | at °C | ① Method<br>② Remark |
|---|---|---|---|
| pH | *not applicable* | | ② insoluble in: Water |
| Initial boiling point and boiling range | -40 °C | | |
| Flash point | -80 °C | | |
| Evaporation rate | *No data available* | | |
| Upper/lower flammability or explosive limits | 0.5 – 10.8 Vol-% | | |
| Vapour pressure | *No data available* | | |
| Density | 0.744 g/cm³ | 20 °C | ① DIN 51757 |
| Water solubility | practically insoluble | | |

### 9.2. Other information

The data refer to the technical active substance: relative density, colour, odour, viscosity, pH-value.

## SECTION 10: Stability and reactivity

* **10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air. Take precautionary measures against static discharges.

### 10.5. Incompatible materials

Oxidizing agent. Pyrophoric or self-heating substances.

### 10.6. Hazardous decomposition products

Incomplete combustion and thermolysis can produce gases of varying toxicity. In the case of products containing hydrocarbons, e.g. CO, CO2, aldehydes and soot. These can be very dangerous if inhaled in high concentrations or in enclosed spaces.

### Further information

Do not mix with other chemicals.

## SECTION 11: Toxicological information

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

**Toxicological information**

| Acute Toxicity Estimate for Mixtures |
|---|
| **ATE (oral):** >2,000 mg/kg |
| **ATE (dermal):** >2,000 mg/kg |
| **ATE (inhalation, vapour):** >20 mg/L |
| **ATE (inhalation, dust/mist):** >5 mg/L |

| |
|---|
| **Hydrocarbons, C7-C9, iso-alkanes** CAS No.: 64741-66-8 EC No.: 921-728-3 |
| **ATE (inhalation, vapour):** 21 mg/L |
| **$LD_{50}$ oral:** >5,000 mg/kg (Rat) |
| **$LD_{50}$ dermal:** >2,000 mg/kg (Rabbit) |
| **$LC_{50}$ Acute inhalation toxicity (vapour):** >21 mg/L (Rat) OECD 403 |
| **$LC_{50}$ Acute inhalation toxicity (dust/mist):** >9.4 mg/L |
| **Hydrocarbons, C11-C12, isoalkanes, <2% aromatics** CAS No.: 90622-57-4 EC No.: 918-167-1 |
| **$LD_{50}$ oral:** >5,000 mg/kg (Rat) OECD 401 |
| **$LD_{50}$ dermal:** >5,000 mg/kg (Rabbit) OECD 402 |
| **$LC_{50}$ Acute inhalation toxicity (gas):** >5,000 ppmV 4 h (Rat) |
| **$LC_{50}$ Acute inhalation toxicity (vapour):** >25 mg/L (Rat) |
| **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene** CAS No.: 68411-46-1 EC No.: 270-128-1 |
| **$LD_{50}$ oral:** >5,000 mg/kg (Rat) other: Section 772 .112-21 CFR 40 |
| **$LD_{50}$ dermal:** >2,000 mg/kg (Rat) OECD 402 |
| **$LC_{50}$ Acute inhalation toxicity (dust/mist):** >5 mg/L 4 h (Rat) Study report (year n/a) |
| **Sulfonic acids, petroleum, calcium salts** CAS No.: 61789-86-4 EC No.: 263-093-9 |
| **$LD_{50}$ oral:** >16,000 mg/kg (Rat) |
| **$LD_{50}$ dermal:** >5,000 mg/kg (Rabbit) OECD 402 |
| **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts** CAS No.: 70024-69-0 EC No.: 274-263-7 |
| **$LD_{50}$ oral:** >16,000 mg/kg (Rat) other: Section 772.112-21 CFR 40 |
| **$LD_{50}$ dermal:** >4,000 mg/kg (Rabbit) other: 40 CFR, Section 163.81-2, Federal |
| **$LC_{50}$ Acute inhalation toxicity (dust/mist):** >5 mg/L (Rat) |
| **Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts** CAS No.: 68584-23-6 EC No.: 271-529-4 |
| **$LD_{50}$ oral:** >5,000 mg/kg (Rat) |
| **$LD_{50}$ dermal:** >5,000 mg/kg (Rat) |
| **$LC_{50}$ Acute inhalation toxicity (dust/mist):** >5 mg/L (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.

**Skin corrosion/irritation:**
Causes skin irritation.

**Serious eye damage/irritation:**
Based on available data, the classification criteria are not met.

**Respiratory or skin sensitisation:**
May cause allergic reactions. Contains: Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts; Sulfonic acids, petroleum, sodium salts; Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts

**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, C7-C9, n-alkanes, isoalkanes, cyclics)

**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:**
Information on probable routes of exposure: oral inhalation Skin contact Eye contact.
Reference to other sections: 2.1, 4.2

### 11.2. Information on other hazards

**Endocrine disrupting properties:**
None of the ingredients are included.

## SECTION 12: Ecological information

* 

### 12.1. Toxicity

| |
|---|
| **isobutane** CAS No.: 75-28-5 EC No.: 200-857-2 |
| **$LC_{50}$:** 91.42 mg/L 4 d (fish, Fish, no other information) |
| **$LC_{50}$:** 100 mg/L 4 d (fish, Danio rerio) |
| **$LC_{50}$:** 91.42 mg/L 4 d (fish) |
| **$EC_{50}$:** 69.43 mg/L 2 d (crustaceans, Daphnia sp.) |
| **$EC_{50}$:** 1,000 mg/L 2 d (fish, Daphnia magna) |
| **$EC_{50}$:** 69.43 mg/L 2 d (crustaceans, Daphnia) Calculation with the ECOSAR programme v1.00. |
| **$ErC_{50}$:** 19.37 mg/L 4 d (Algae/water plant, Algae) |
| **$ErC_{50}$:** 19.37 mg/L 4 d (Algae/water plant) Calculation using ECOSAR Program v1.00. |
| **Hydrocarbons, C7-C9, iso-alkanes** CAS No.: 64741-66-8 EC No.: 921-728-3 |
| **NOEC:** 0.17 mg/L (Algae/water plant, Daphnia magna) |
| **LOEC:** 0.32 mg/L (Algae/water plant, Daphnia magna) |
| **$LC_{50}$:** 1,000 mg/L 4 d (fish, Oncorhynchus mykiss) |
| **$ErC_{50}$:** 1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) |
| **$EC_{50}$:** 1,000 mg/L 2 d (crustaceans, Daphnia magna) |
| **NOEC:** 0.17 mg/L 21 d (Daphnia magna) |
| **LOEC:** 0.32 mg/L 21 d (Daphnia magna) |
| **propane** CAS No.: 74-98-6 EC No.: 200-827-9 |
| **$LC_{50}$:** 9,640 mg/L 4 d (fish, Pimephales promelas) |
| **$LC_{50}$:** 0.41 mg/L 4 d (fish, Oncorhynchus mykiss) |
| **$LC_{50}$:** 49.9 mg/L 4 d (fish) |
| **$EC_{50}$:** >100 mg/L (Algae/water plant, Bacteria) |
| **$EC_{50}$:** 0.17 mg/L 3 d (Algae/water plant, Selenastrum capricornutum) |
| **$EC_{50}$:** 69.43 mg/L 2 d (crustaceans, Daphnia) Calculation with the ECOSAR programme v1.00. |
| **NOEC:** 0.017 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) |
| **$ErC_{50}$:** 19.37 mg/L 4 d (Algae/water plant, Algae) Calculation with the ECOSAR programme v1.00. |
| **LOEC:** 1,000 mg/L (Algae/water plant, Algae) |
| **LOEC:** 1,000 mg/L (Algae/water plant, Alge) |
| **$IC_{50}$:** 11.3 mg/L 3 d (Algae/water plant) |
| **LOEC:** 1,000 mg/L |
| **Hydrocarbons, C11-C12, isoalkanes, <2% aromatics** CAS No.: 90622-57-4 EC No.: 918-167-1 |
| **NOEC:** >1 mg/L 21 d (crustaceans, Daphnia magna) |
| **$ErC_{50}$:** >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201 |
| **NOEC:** 0.209 mg/L 28 d (fish, Oncorhynchus mykiss) OECD 211 |

| |
|---|
| **butane** CAS No.: 106-97-8 EC No.: 203-448-7 |
| **$LC_{50}$:** 49.9 mg/L 4 d (fish) |
| **$LC_{50}$:** 24.11 mg/L (fish) |
| **$EC_{50}$:** 69.43 mg/L 2 d (crustaceans, Daphnia sp.) |
| **$EC_{50}$:** 7.71 mg/L 4 d (Algae/water plant) |
| **$ErC_{50}$:** 19.37 mg/L 4 d (Algae/water plant) |
| **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene** CAS No.: 68411-46-1 EC No.: 270-128-1 |
| **$LC_{50}$:** >100 mg/L 4 d (fish, Danio rerio) OECD 203 |
| **$ErC_{50}$:** >100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) OECD 201 |
| **$EC_{50}$:** >51 mg/L 2 d (crustaceans, Daphnia magna) OECD 202 |
| **$LC_{50}$:** >100 mg/L 4 d (Danio rerio) OECD 203 |
| **$EC_{50}$:** 51 mg/L 2 d (crustaceans, Daphnia magna) OECD 202 |
| **$ErC_{50}$:** >100 mg/L 3 d (Desmodesmus subspicatus) OECD 201 |
| **Sulfonic acids, petroleum, calcium salts** CAS No.: 61789-86-4 EC No.: 263-093-9 |
| **$EC_{50}$:** >1,000 mg/L 2 d (crustaceans, Daphnia magna) EPA OTS 797.1300 |
| **$EC_{50}$:** >10,000 mg/L (activated sludge of a predominantly domestic sewag) OECD 209 |
| **$ErC_{50}$:** >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) EPA OTS 797.1050 |
| **$EC_{50}$:** >10,000 mg/L (Activated sludge (domestic)) OECD 209 |
| **$ErC_{50}$:** >1,000 mg/L 3 d (Pseudokirchneriella subcapitata) EPA OTS 797.1050 |
| **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts** CAS No.: 70024-69-0 EC No.: 274-263-7 |
| **$LC_{50}$:** >10,000 mg/L 4 d (fish, Cyprinus carpio) EPA OTS 797.1050 |
| **$EC_{50}$:** >1,000 mg/L 2 d (crustaceans, Daphnia magna) OECD 209 |
| **$ErC_{50}$:** >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) EPA OTS 797.1300 |
| **$LC_{50}$:** >10,000 mg/L 4 d (Cyprinus carpio) |
| **$EC_{50}$:** >1,000 mg/L 2 d (crustaceans, Daphnia magna) EPA OTS 797.1300 |
| **$EC_{50}$:** >10,000 mg/L (Activated sludge (domestic)) OECD 209 |
| **$ErC_{50}$:** >1,000 mg/L 3 d (Pseudokirchneriella subcapitata) EPA OTS 797.1050 |
| **Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts** CAS No.: 68584-23-6 EC No.: 271-529-4 |
| **$LC_{50}$:** >10,000 mg/L 4 d (fish, Oncorhynchus mykiss) |
| **$ErC_{50}$:** >1,000 mg/L 4 d (Algae/water plant, Scenedesmus subspicatus) |
| **$EC_{50}$:** >1,000 mg/L 2 d (crustaceans, Daphnia magna) |
| **$LC_{50}$:** >10,000 mg/L 4 d (Oncorhynchus mykiss) |
| **$ErC_{50}$:** >1,000 mg/L 4 d (Scenedesmus subspicatus) |

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

### 12.2. Persistence and degradability

| |
|---|
| **propane** CAS No.: 74-98-6 EC No.: 200-827-9 |
| **Biodegradation:** Yes, rapidly |
| **butane** CAS No.: 106-97-8 EC No.: 203-448-7 |
| **Biodegradation:** Yes, rapidly |

**Additional information:**
There are no data available on the mixture itself. AOX (mg/l): 0

* 
### 12.3. Bioaccumulative potential

| |
|---|
| **isobutane** CAS No.: 75-28-5 EC No.: 200-857-2 |
| **Log $K_{OW}$:** 1.09 |

| |
|---|
| **propane** CAS No.: 74-98-6 EC No.: 200-827-9 |
| **Log $K_{OW}$:** 1.09 |
| **Hydrocarbons, C11-C12, isoalkanes, <2% aromatics** CAS No.: 90622-57-4 EC No.: 918-167-1 |
| **Bioconcentration factor (BCF):** 144.3 Species: calculated |
| **butane** CAS No.: 106-97-8 EC No.: 203-448-7 |
| **Log $K_{OW}$:** 1.09 |
| **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene** CAS No.: 68411-46-1 EC No.: 270-128-1 |
| **Log $K_{OW}$:** > 6 |
| **Bioconcentration factor (BCF):** 411 |
| **Sulfonic acids, petroleum, calcium salts** CAS No.: 61789-86-4 EC No.: 263-093-9 |
| **Log $K_{OW}$:** > 4.46 |
| **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts** CAS No.: 70024-69-0 EC No.: 274-263-7 |
| **Log $K_{OW}$:** 18.05 |

**Bioconcentration factor (BCF):**
There are no data available on the mixture itself.

* **12.4. Mobility in soil**
No data available

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

| |
|---|
| **isobutane** CAS No.: 75-28-5 EC No.: 200-857-2 |
| **Results of PBT and vPvB assessment:** — |
| **Hydrocarbons, C7-C9, iso-alkanes** CAS No.: 64741-66-8 EC No.: 921-728-3 |
| **Results of PBT and vPvB assessment:** — |
| **propane** CAS No.: 74-98-6 EC No.: 200-827-9 |
| **Results of PBT and vPvB assessment:** — |
| **Hydrocarbons, C11-C12, isoalkanes, <2% aromatics** CAS No.: 90622-57-4 EC No.: 918-167-1 |
| **Results of PBT and vPvB assessment:** — |
| **butane** CAS No.: 106-97-8 EC No.: 203-448-7 |
| **Results of PBT and vPvB assessment:** — |
| **Benzenamine, N-phenyl-, reaction products with 2,4,4-trimethylpentene** CAS No.: 68411-46-1 EC No.: 270-128-1 |
| **Results of PBT and vPvB assessment:** — |
| **Sulfonic acids, petroleum, calcium salts** CAS No.: 61789-86-4 EC No.: 263-093-9 |
| **Results of PBT and vPvB assessment:** — |
| **Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts** CAS No.: 70024-69-0 EC No.: 274-263-7 |
| **Results of PBT and vPvB assessment:** — |
| **Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts** CAS No.: 68584-23-6 EC No.: 271-529-4 |
| **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**
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**
Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.
water hazard class 1: slightly hazardous to water

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**
Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

## Food Lube Extreme Aerosol 400ml

### 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.*

**Waste code packaging**

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

## 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, Flammable |
| **14.3. Transport hazard class(es)** | | | |
| 2.1 | 2.1 | 2.1 | 2.1 |
| **14.4. Packing group** | | | |
| | | - | |
| **14.5. Environmental hazards** | | | |
| No | No | No | No |
| **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:** Caution: Flammable gases! Transport category: 2 | **Special Provisions:** 190 \| 327 \| 344 \| 625<br>**Limited quantity (LQ):** 1 L<br>**Excepted Quantities (EQ):** E0<br>**Classification code:** 5F<br>**Remark:** Caution: Flammable gases! | **Special Provisions:** 63 \| 190 \| 277 \| 327 \| 344 \| 381 \| 959<br>**Limited quantity (LQ):** 1000 mL<br>**Excepted Quantities (EQ):** E0<br>**EmS-No.:** F-D, S-U<br>**Remark:** Caution: Flammable gases! | **Special Provisions:** A145 \| A167 \| A802<br>**Limited quantity (LQ):** 30kg G Y203<br>**Excepted Quantities (EQ):** E0<br>**Remark:** IATA Packing Instructions - Passenger: 203 IATA Maximum Quantity - Passenger: 75 kg IATA-Verpackungsanweisung - Cargo: 203 IATA Maximum Quantity - Cargo: 150 kg Caution: Flammable gases! |

### 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) Entry 3, Entry 40
Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878
Aerosol Directive (75/324/EEC)

### 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 |
| 1.4. | Emergency telephone number |
| 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 |
| 5.4. | Additional information |
| 7.1. | Precautions for safe handling |
| 7.3. | Specific end use(s) |
| 8.1. | Control parameters |
| 8.2. | Exposure controls |
| 10.1. | Reactivity |
| 11.1. | Information on hazard classes as defined in Regulation (EC) No 1272/2008 |
| 12.1. | Toxicity |
| 12.3. | Bioaccumulative potential |
| 12.4. | Mobility in soil |
| 12.5. | Results of PBT and vPvB assessment |
| 14.2. | UN proper shipping name |
| 15.1. | Safety, health and environmental regulations/legislation specific for the substance or mixture |
| 16.1. | Indication of changes |
| 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

| | |
|---|---|
| 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 |
| AOX | Adsorbable Organic halogen compounds |
| BCF | Bioconcentration Factor |
| CAS | Chemical Abstracts Service |
| CLP | Classification, Labelling and Packaging |
| DIN | German Institute for Standardization / German Industrial Standard |
| DNEL | derived no-effect level |
| $EC_{50}$ | Effective Concentration 50% |
| EN | European Standard |
| ES | Exposure scenario |
| EWC | European Waste Catalogue |
| $IC_{50}$ | Inhibition Concentration 50 % |
| 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 |
| 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 |
| SCL | Specific concentration limit |
| TRGS | Technische Regeln für Gefahrstoffe |
| UN | United Nations |
| ZNS | central nervous system |

### 16.3. Key literature references and sources for data
No data available

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

| Hazard classes and hazard categories | Hazard statements | Classification procedure |
|---|---|---|
| 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-single exposure *(STOT SE 3)* | H336: May cause drowsiness or dizziness. | Calculation method. |
| 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 | |
|---|---|
| H220 | Extremely flammable gas. |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H280 | Contains gas under pressure; may explode if heated. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H336 | May cause drowsiness or dizziness. |
| H361f | Suspected of damaging fertility. |
| 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.