

SAFETY DATA SHEET

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

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Mega Foam 500ml

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

1.1. Product identifier

Trade name/designation:

Mega Foam 500ml

Article No.:

T101001

UFI:

86TP-7K7V-RQ0J-THYY

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

Use of the substance/mixture:

Glass cleaner

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 |
|--------------------------------------|--|--------------------------|
| Aerosols (<i>Aerosol 1</i>) | H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated. | |

2.2. Label elements

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

Hazard pictograms:



GHS02

Flame

Signal word: Danger

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

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Supplemental hazard information: none

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 dust/fume/gas/mist/vapours/spray. |
| P271 | Use only outdoors or in a well-ventilated area. |
| P280 | Wear protective gloves/eye protection. |

Precautionary statements Storage

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

Precautionary statements Disposal

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

2.3. Other hazards

No data available

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.

Hazardous ingredients / Hazardous impurities / Stabilisers:

| Product identifiers | Substance name Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|---|---|---------------------|
| | Aliphatic hydrocarbons The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. | ≥ 5 - < 15 Vol-% |
| CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0 REACH No.: 01-2119474691-32 | butane Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) ⚠ Danger | 2.5 - < 10 Vol-% |
| CAS No.: 111-76-2 EC No.: 203-905-0 Index No.: 603-014-00-0 REACH No.: 01-2119475108-36 | 2-butoxyethanol Acute Tox. 3 (H331), Acute Tox. 4 (H312, H302), Eye Irrit. 2 (H319), Skin Irrit. 2 (H315) ⚠ Danger Acute Toxicity Estimate ATE (oral): 1,200 mg/kg ATE (inhalation, vapour): 3 mg/L | 2.5 - < 10 Vol-% |
| CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5 REACH No.: 01-2119486944-21 | propane Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) ⚠ Danger | 2.5 - < 10 Vol-% |
| | Fragrances The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. | < 5 Vol-% |
| CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0 REACH No.: 01-2119457558-25 | propan-2-ol Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) ⚠ ⚠ Danger | 1 - < 2.5 Vol-% |

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| Product identifiers | Substance name Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|--|--|-----------------------|
| CAS No.: 75-28-5 EC No.: 200-857-2 REACH No.: 01-2119485395-27 | Isobutane Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger | 0.1 - < 1 Vol-% |
| CAS No.: 1336-21-6 EC No.: 215-647-6 Index No.: 007-001-01-2 REACH No.: 01-2119488876-14 | Ammonia, aqueous solution Acute Tox. 4 (H302), Aquatic Acute 1 (H400), STOT SE 3 (H335), Skin Corr. 1B (H314) Danger Specific concentration limit (SCL) STOT SE 3; H335: C ≥ 5% | ≥ 0.25 - < 1 Vol-% |

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

SECTION 4: First aid measures

4.1. Description of first aid measures

Following inhalation:

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, 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.

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.

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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 discharge. 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. Protect from heat and direct sunlight.

7.3. Specific end use(s)

Recommendation:

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

| Limit value type (country of origin) | Substance name | ① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark |
|--------------------------------------|--|--|
| MAK (AT) | butane CAS No.: 106-97-8 EC No.: 203-448-7 | ① 800 ppm (1,900 mg/m ³) |
| MAK (AT) | butane CAS No.: 106-97-8 EC No.: 203-448-7 | ② 1,600 ppm (3,800 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert) |
| MAK (AT) | 2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0 | ② 40 ppm (200 mg/m ³) ⑤ (max. 4x30 min./Schicht, kann über die Haut aufgenommen werden) H |
| IOELV (EU) | 2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0 | ① 20 ppm (98 mg/m ³) ② 50 ppm (246 mg/m ³) ⑤ (may be absorbed through the skin) |

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| Limit value type (country of origin) | Substance name | ① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark |
|--------------------------------------|---|--|
| MAK (AT) | 2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0 | ① 20 ppm (98 mg/m ³) ⑤ (kann über die Haut aufgenommen werden) H |
| MAK (AT) | propane CAS No.: 74-98-6 EC No.: 200-827-9 | ② 2,000 ppm (3,600 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert) |
| MAK (AT) | propane CAS No.: 74-98-6 EC No.: 200-827-9 | ① 1,000 ppm (1,800 mg/m ³) |
| MAK (AT) | propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7 | ② 800 ppm (2,000 mg/m ³) ⑤ (max. 4x15 min./Schicht) |
| MAK (AT) | propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7 | ① 200 ppm (500 mg/m ³) |
| MAK (AT) | Isobutane CAS No.: 75-28-5 EC No.: 200-857-2 | ② 1,600 ppm (3,800 mg/m ³) ⑤ (max. 3x60 min./Schicht Momentanwert) |
| MAK (AT) | Isobutane CAS No.: 75-28-5 EC No.: 200-857-2 | ① 800 ppm (1,900 mg/m ³) |
| MAK (AT) | Ammonia, aqueous solution CAS No.: 1336-21-6 EC No.: 215-647-6 | ① 20 ppm (14 mg/m ³) |
| MAK (AT) | Ammonia, aqueous solution CAS No.: 1336-21-6 EC No.: 215-647-6 | ② 50 ppm (36 mg/m ³) ⑤ (max. 4x15 min./Schicht) |
| IOELV (EU) | Ammonia, aqueous solution CAS No.: 1336-21-6 EC No.: 215-647-6 | ① 20 ppm (14 mg/m ³) ② 50 ppm (36 mg/m ³) |

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

| Substance name | DNEL value | ① DNEL type ② Exposure route |
|--|-------------------------|---|
| 2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0 | 98 mg/m ³ | ① DNEL worker ② Long-term - inhalation, systemic effects |
| 2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0 | 59 mg/m ³ | ① DNEL Consumer ② Long-term - inhalation, systemic effects |
| 2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0 | 1,091 mg/m ³ | ① DNEL worker ② Acute - inhalation, systemic effects |
| 2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0 | 426 mg/m ³ | ① DNEL Consumer ② Acute - inhalation, systemic effects |
| 2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0 | 147 mg/m ³ | ① DNEL Consumer ② Acute - inhalation, local effects |
| 2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0 | 10.3 mg/kg bw/day | ① DNEL worker ② Long-term - dermal, systemic effects |

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| Substance name | DNEL value | ① DNEL type ② Exposure route |
|--|-----------------------|---|
| 2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0 | 26.7 mg/kg bw/day | ① DNEL Consumer ② Acute - dermal, systemic effects |
| 2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0 | 6.3 mg/kg bw/ day | ① DNEL Consumer ② Long-term - oral, systemic effects |
| propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7 | 500 mg/m ³ | ① DNEL worker ② Long-term - inhalation, systemic effects |
| propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7 | 89 mg/m ³ | ① DNEL Consumer ② Long-term - inhalation, systemic effects |
| propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7 | 888 mg/kg bw/ day | ① DNEL worker ② Long-term - dermal, systemic effects |
| propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7 | 319 mg/kg bw/ day | ① DNEL Consumer ② Long-term - dermal, systemic effects |
| propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7 | 26 mg/kg bw/ day | ① DNEL Consumer ② Long-term - oral, systemic effects |

| Substance name | PNEC Value | ① PNEC type |
|--|------------|--------------------------------------|
| 2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0 | 8.8 mg/L | ① PNEC aquatic, marine water |
| 2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0 | 463 mg/L | ① PNEC sewage treatment plant |
| 2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0 | 0.88 mg/L | ① PNEC sediment, freshwater |
| 2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0 | 3.46 mg/L | ① PNEC sediment, marine water |
| 2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0 | 8.14 mg/kg | ① PNEC soil |
| propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7 | 140.9 mg/L | ① PNEC aquatic, freshwater |
| propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7 | 140.9 mg/L | ① PNEC aquatic, marine water |
| propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7 | 2,251 mg/L | ① PNEC sewage treatment plant |
| propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7 | 552 mg/kg | ① PNEC sediment, freshwater |
| propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7 | 552 mg/kg | ① PNEC sediment, marine water |
| propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7 | 28 mg/kg | ① PNEC soil |
| propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7 | 140.9 mg/L | ① PNEC aquatic, intermittent release |

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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

Wear gloves for protection against chemicals according to EN 374.

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.

Nitrilkautschuk 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)

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 ABEK-P2

Other protection measures:

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

Physical state: Aerosol

Colour: colourless

Odour: fruity

Safety relevant basis data

| Parameter | Value | at °C | ① Method ② Remark |
|--|-------------------|-------|----------------------|
| pH | 11.3 | 20 °C | |
| Initial boiling point and boiling range | -44.5 °C | | |
| Flash point | -97 °C | | |
| Evaporation rate | No data available | | |
| Auto-ignition temperature | 365 °C | | |
| Upper/lower flammability or explosive limits | 1.1 - 12 Vol-% | | |

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| Parameter | Value | at °C | ① Method ② Remark |
|------------------|--------------------------|-------|----------------------|
| Vapour pressure | 4,000 hPa | 20 °C | |
| Density | 0.938 g/cm ³ | 20 °C | |
| Bulk density | <i>not applicable</i> | | |
| Water solubility | <i>No data available</i> | | |

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Explosives:

Not applicable

Flammable gases:

Not applicable

Aerosols:

Not applicable

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

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.

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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

| |
|---|
| butane CAS No.: 106-97-8 EC No.: 203-448-7 |
| LD₅₀ oral: ≥5,000 mg/kg (Rat) |
| LD₅₀ dermal: ≥5,000 mg/kg (Rabbit) |
| LC₅₀ Acute inhalation toxicity (gas): 658 ppmV 4 h (Rat) |
| LC₅₀ Acute inhalation toxicity (vapour): ≥50 mg/L 4 h (Rat) |
| 2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0 |
| ATE (oral)¹: 1,200 mg/kg |
| ATE (inhalation, vapour)¹: 3 mg/L |
| LD₅₀ oral: 300 mg/kg (Kaninchen) |
| LD₅₀ dermal: 2,000 mg/kg (Rabbit) |
| LC₅₀ Acute inhalation toxicity (vapour): 2.2 mg/L (Rat) |
| propane CAS No.: 74-98-6 EC No.: 200-827-9 |
| LD₅₀ oral: 5,840 mg/kg (Rat) |
| LD₅₀ dermal: 13,900 mg/kg (Rabbit) |
| LC₅₀ Acute inhalation toxicity (gas): >25 ppmV 4 h (Rat) |
| LC₅₀ Acute inhalation toxicity (vapour): ≥50 mg/L 4 h (Rat) |
| propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7 |
| LD₅₀ oral: >2,000 mg/kg (Rat) |
| LD₅₀ dermal: >2,000 mg/kg (Rat) |
| LC₅₀ Acute inhalation toxicity (gas): >25 ppmV (Rat) |
| LC₅₀ Acute inhalation toxicity (vapour): >20 mg/L (Rat) |
| Isobutane CAS No.: 75-28-5 EC No.: 200-857-2 |
| LC₅₀ Acute inhalation toxicity (vapour): 1,237 mg/L (Mouse) |
| Ammonia, aqueous solution CAS No.: 1336-21-6 EC No.: 215-647-6 |
| LD₅₀ oral: 350 mg/kg (Rat) |
| LD₅₀ dermal: ≥5,000 mg/kg (Rabbit) |
| LC₅₀ Acute inhalation toxicity (vapour): ≥50 mg/L 4 h (Rat) |

¹: Acute Toxicity Estimate. Harmonised (legal) classification.

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:

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

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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

| |
|---|
| butane CAS No.: 106-97-8 EC No.: 203-448-7 |
| LC ₅₀ : 49.9 mg/L 4 d (fish) |
| EC ₅₀ : 69.43 mg/L 2 d (crustaceans, Daphnia) |
| ErC ₅₀ : 19.37 mg/L 4 d (Algae/water plant) |
| 2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0 |
| LC ₅₀ : 1,490 mg/L (fish, Lepomis macrochirus) |
| 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) |
| NOEC: 0.017 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) |
| ErC ₅₀ : 19.37 mg/L 4 d (Algae/water plant) |
| LOEC: 1,000 mg/L (Algae/water plant, Algae) |
| LOEC: 1,000 mg/L (Algae/water plant, Alge) |
| propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7 |
| LC ₅₀ : 9,640 mg/L 4 d (fish, Pimephales promelas) |
| LC ₅₀ : >1,000 mg/L 4 d (fish) |
| EC ₅₀ : >100 mg/L (Algae/water plant) |
| EC ₅₀ : >100 mg/L 2 d (crustaceans, Daphnia magna) |
| EC ₅₀ : >1,000 mg/L 2 d (crustaceans) |
| ErC ₅₀ : >100 mg/L 3 d (Algae/water plant, Desmodesmus subspicatus) |
| LOEC: 1,000 mg/L (Algae/water plant, Algae) |
| LC ₅₀ : 8,970 mg/L 2 d (fish, Leuciscus idus (golden orfe)) |
| Isobutane CAS No.: 75-28-5 EC No.: 200-857-2 |
| LC ₅₀ : 91.42 mg/L 4 d (fish) |
| EC ₅₀ : 69.43 mg/L 2 d (crustaceans, Daphnia sp.) |
| ErC ₅₀ : 19.37 mg/L 4 d (Algae/water plant) |
| Ammonia, aqueous solution CAS No.: 1336-21-6 EC No.: 215-647-6 |
| LC ₅₀ : 0.89 mg/L (fish) |
| EC ₅₀ : 110 mg/L (crustaceans, Daphnia) |
| EC ₅₀ : 110 mg/L (Daphnia) |

12.2. Persistence and degradability

| |
|---|
| butane CAS No.: 106-97-8 EC No.: 203-448-7 |
| Biodegradation: Yes, rapidly |

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| |
|--|
| 2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0 |
|--|

| |
|-------------------------------------|
| Biodegradation: Yes, rapidly |
|-------------------------------------|

| |
|---|
| propane CAS No.: 74-98-6 EC No.: 200-827-9 |
|---|

| |
|-------------------------------------|
| Biodegradation: Yes, rapidly |
|-------------------------------------|

| |
|---|
| propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7 |
|---|

| |
|-------------------------------------|
| Biodegradation: Yes, rapidly |
|-------------------------------------|

| |
|--|
| Remark: Readily biodegradable (according to OECD criteria). |
|--|

Biodegradation:

Not readily biodegradable.

12.3. Bioaccumulative potential

| |
|---|
| butane CAS No.: 106-97-8 EC No.: 203-448-7 |
|---|

| |
|---------------------------------|
| Log K_{OW}: 1.09 |
|---------------------------------|

| |
|--|
| 2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0 |
|--|

| |
|---------------------------------|
| Log K_{OW}: 0.81 |
|---------------------------------|

| |
|---|
| propane CAS No.: 74-98-6 EC No.: 200-827-9 |
|---|

| |
|---------------------------------|
| Log K_{OW}: 1.09 |
|---------------------------------|

| |
|---|
| propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7 |
|---|

| |
|---------------------------------|
| Log K_{OW}: 0.05 |
|---------------------------------|

| |
|---|
| Isobutane CAS No.: 75-28-5 EC No.: 200-857-2 |
|---|

| |
|---------------------------------|
| Log K_{OW}: 1.09 |
|---------------------------------|

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

| |
|---|
| butane CAS No.: 106-97-8 EC No.: 203-448-7 |
|---|

| |
|--|
| Results of PBT and vPvB assessment: — |
|--|

| |
|--|
| 2-butoxyethanol CAS No.: 111-76-2 EC No.: 203-905-0 |
|--|

| |
|--|
| Results of PBT and vPvB assessment: — |
|--|

| |
|---|
| propane CAS No.: 74-98-6 EC No.: 200-827-9 |
|---|

| |
|--|
| Results of PBT and vPvB assessment: — |
|--|

| |
|---|
| propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7 |
|---|

| |
|--|
| Results of PBT and vPvB assessment: — |
|--|

| |
|---|
| Isobutane CAS No.: 75-28-5 EC No.: 200-857-2 |
|---|

| |
|--|
| Results of PBT and vPvB assessment: — |
|--|

| |
|---|
| Ammonia, aqueous solution CAS No.: 1336-21-6 EC No.: 215-647-6 |
|---|

| |
|--|
| Results of PBT and vPvB assessment: — |
|--|

| |
|-------------------------------|
| Aliphatic hydrocarbons |
|-------------------------------|

| |
|--|
| Results of PBT and vPvB assessment: — |
|--|

| |
|-------------------|
| Fragrances |
|-------------------|

| |
|--|
| Results of PBT and vPvB assessment: — |
|--|

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system. into the sewerage system. Flushing away larger quantities into sewers or water bodies can lead to an increase in pH value. A high pH-value damages water organisms. In the dilution of the application concentration, the value is reduced considerably, so that after use of the product the waste water entering the sewage system is only slightly hazardous to water. are only slightly hazardous to water.

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Must not be disposed of together with household waste. Do not allow to enter into surface water or drains.

13.1.1. Product/Packaging disposal

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




| | |
|------|-----------|
| HP 3 | Flammable |
|------|-----------|

Waste treatment options

Other disposal recommendations:

Uncleaned packaging: Dispose of waste according to applicable legislation.

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 | No data available |  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 Limited quantity (LQ): 1L Excepted Quantities (EQ): E0 Classification code: 5F Tunnel restriction code: (D) Remark: Attention: Gases | Special Provisions: 190 327 344 625 Classification code: 5F Remark: Attention: Gases | Special Provisions: 63 190 277 327 344 381 959 Limited quantity (LQ): 1L Excepted Quantities (EQ): E0 EmS-No.: F-D,S-U Remark: Attention: Gases | Special Provisions: A145 A167 Remark: 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.

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Restrictions on use:

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

- 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: 15.53 Vol-%

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

No data available

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 ₅₀ | Effective Concentration 50% |
| 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 |
| OEL | Threshold Limit Value |
| OSHA | Occupational Safety & Health Administration |
| PBT | persistent and bioaccumulative and toxic |
| PNEC | Predicted No Effect Concentration |
| REACH | Registration, Evaluation and Authorization of Chemicals |

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RID Dangerous goods regulations for transport by rail
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 |
|--------------------------------------|--|--------------------------|
| Aerosols (<i>Aerosol 1</i>) | H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated. | |

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. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H331 | Toxic if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |

16.6. Training advice

No data available

16.7. Additional information

No data available