

SAFETY DATA SHEET

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

Revision date: 25 Jul 2023

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Multi Tech Dry 500ml

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

1.1. Product identifier

Trade name/designation:

Multi Tech Dry 500ml

Article No.:

T318001

UFI:

9KFF-ETTR-FTJQ-Y752

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

Use of the substance/mixture:

Lubricating agent

Relevant identified uses:

Product Categories [PC]

PC 24: Lubricants, greases, release products

Process categories [PROC]

PROC 7: Industrial spraying

PROC 11: Non industrial spraying

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. | |
| Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>) | H319: Causes serious eye irritation. | |
| STOT-single exposure (<i>STOT SE 3</i>) | H336: May cause drowsiness or dizziness. | |
| Hazardous to the aquatic environment (<i>Aquatic Chronic 2</i>) | H411: Toxic to aquatic life with long lasting effects. | |

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2.2. Label elements

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

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark



GHS09
Environment

Signal word: Danger

Hazard components for labelling:

pentane; propan-2-ol

Hazard statements for physical hazards

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

Hazard statements for health hazards

| | |
|------|------------------------------------|
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |

Hazard statements for environmental hazards

| | |
|------|--|
| H411 | Toxic to aquatic life with long lasting effects. |
|------|--|

Supplemental hazard information

| | |
|--------|---|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
|--------|---|

Precautionary statements Prevention

| | |
|------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P211 | Do not spray on an open flame or other ignition source. |
| P251 | Do not pierce or burn, even after use. |
| P260 | Do not breathe spray. |

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:

Mixture of substances listed below with non-hazardous admixtures.

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Hazardous ingredients / Hazardous impurities / Stabilisers:

| Product identifiers | Substance name Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|---|---|----------------------|
| CAS No.: 109-66-0 EC No.: 203-692-4 Index No.: 601-006-00-1 REACH No.: 01-2119459286-30 | pentane Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger EUH066 | 25 - < 50 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 | 20 - < 25 Vol-% |
| CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0 REACH No.: 01-2119474691-32 | Butane (with < 0,1 % butadiene (203-450-8)) Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger | 12.5 - < 20 Vol-% |
| CAS No.: 75-28-5 EC No.: 200-857-2 REACH No.: 01-2119485395-27 | Isobutane (with < 0.1 % butadiene (203-450-8)) Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger | 12.5 - < 20 Vol-% |
| CAS No.: 67-63-0 EC No.: 200-661-7 REACH No.: 01-2119457558-25 | propan-2-ol The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. | 10 - < 12.5 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:

Drink plenty of water. Provide fresh air. Call a physician 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:

Adapt fire extinguishing measures to the surroundings.

5.2. Special hazards arising from the substance or mixture

Formation of toxic gases when heated or in case of fire.

5.3. Advice for firefighters

Special protective equipment: Put on breathing apparatus.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

- Use of respiratory protective equipment.
- Wear protective equipment. Keep unprotected persons away.
- Keep away from sources of ignition - No smoking.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

Other information:

- Dispose of contaminated material as waste according to section 13..
- Provide adequate ventilation.

6.4. Reference to other sections

- See section 7 for further information on safe handling.
- 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. Have breathing apparatus ready.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

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

Hints on storage assembly:

Not required.

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

Further information on storage conditions:

Keep container tightly closed.

7.3. Specific end use(s)

Recommendation:

No further relevant information available.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

| Limit value type (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) | pentane CAS No.: 109-66-0 EC No.: 203-692-4 | ② 1,200 ppm (3,600 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert) |
| IOELV (EU) | pentane CAS No.: 109-66-0 EC No.: 203-692-4 | ① 1,000 ppm (3,000 mg/m ³) |
| MAK (AT) | pentane CAS No.: 109-66-0 EC No.: 203-692-4 | ① 600 ppm (1,800 mg/m ³) |
| 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) | Butane (with < 0,1 % butadiene (203-450-8)) CAS No.: 106-97-8 EC No.: 203-448-7 | ① 800 ppm (1,900 mg/m ³) |
| MAK (AT) | Butane (with < 0,1 % butadiene (203-450-8)) 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) | Isobutane (with < 0.1 % butadiene (203-450-8)) CAS No.: 75-28-5 EC No.: 200-857-2 | ② 1,600 ppm (3,800 mg/m ³) ⑤ (max. 3x60 min./SchichtMomentanwert) |
| MAK (AT) | Isobutane (with < 0.1 % butadiene (203-450-8)) CAS No.: 75-28-5 EC No.: 200-857-2 | ① 800 ppm (1,900 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) |

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 |
|--|-------------------------|---|
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 3,000 mg/m ³ | ① DNEL worker ② Long-term - inhalation, systemic effects |
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 643 mg/m ³ | ① DNEL Consumer ② Long-term - inhalation, systemic effects |

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| Substance name | DNEL value | ① DNEL type ② Exposure route |
|---|-----------------------|---|
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 432 mg/kg bw/day | ① DNEL worker ② Long-term - dermal, systemic effects |
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 214 mg/kg bw/day | ① DNEL Consumer ② Long-term - dermal, systemic effects |
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 214 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 |
|---|------------------|--------------------------------------|
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 0.23 mg/L | ① PNEC aquatic, freshwater |
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 0.23 mg/L | ① PNEC aquatic, marine water |
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 3.6 mg/L | ① PNEC sewage treatment plant |
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 1.2 mg/kg bw/day | ① PNEC sediment, freshwater |
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 1.2 mg/kg | ① PNEC sediment, marine water |
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 0.55 mg/kg | ① PNEC soil |
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 0.88 mg/L | ① PNEC aquatic, intermittent release |
| 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 |

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| Substance name | PNEC Value | ① PNEC type |
|---|------------|--------------------------------------|
| 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 |

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 with side shields (EN 166).

Skin protection:

Hand protection:

Wear protective gloves.

Glove material: Butyl caoutchouc (butyl rubber)

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. Permeation time (maximum wear duration):

Gloves made of butyl rubber with a material thickness of 0.4mm are resistant to: Acetone 480 min; Butyl acetate 60 min; Ethyl acetate 170 min; Xylene 42 min

Gloves made of butyl rubber with a layer thickness of 0.4 mm are resistant to solvents for 42 - 480 minutes. As a precautionary measure, we recommend users and those responsible for occupational safety to take a resistance of 42 minutes as a basis. Taking into account the information in chapter 3 of the MSDS, it is possible to assume a higher resistance in individual cases.

Respiratory protection:

In case of short or low exposure use breathing filter apparatus; in case of intensive or prolonged exposure use self-contained breathing apparatus. Filter A2/P3

Other protection measures:

General protective and hygienic measures:

Keep away from food, drink and animal feed.

Remove contaminated, saturated clothing immediately.

Wash hands before breaks and after work.

Do not inhale gases/vapours/aerosols.

Avoid contact with eyes and skin.

8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Aerosol

Colour: whitish

Odour: solvent-like

Odour threshold: not determined

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Safety relevant basis data

| Parameter | Value | at °C | ① Method ② Remark |
|--|-----------------------|-------|---|
| pH | No data available | | |
| Initial boiling point and boiling range | not applicable | | |
| Flash point | not applicable | | |
| Evaporation rate | No data available | | |
| Auto-ignition temperature | 285 °C | | ② pentane (109-66-0) |
| Upper/lower flammability or explosive limits | 1.4 - 12 Vol-% | | ② pentane (109-66-0); propan-2-ol (67-63-0) |
| Vapour pressure | 3,500 hPa | 20 °C | |
| Density | 0.6 g/cm ³ | 20 °C | |
| Bulk density | not applicable | | |
| Water solubility | practically insoluble | | |

9.2. Other information

Organic solvents: 99,8%

Solid content: 0,2%

9.2.1. Information with regard to physical hazard classes

Explosives:

Not applicable

Flammable gases:

Not applicable

Aerosols:

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

Oxidizing gases:

Not applicable

Gases under pressure:

Not applicable

Flammable liquids:

Not applicable

Flammable solids:

Not applicable

Self-reactive substances and mixtures:

Not applicable

Pyrophoric liquids:

Not applicable

Pyrophoric solids:

Not applicable

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

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SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

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

| |
|--|
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 |
| LD₅₀ oral: >5,000 mg/kg (Rat) |
| LD₅₀ dermal: >2,000 mg/kg (Rat) |
| LC₅₀ Acute inhalation toxicity (vapour): >25.3 mg/L 4 h (Rat) OECD 403 |
| 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) |

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:

Based on available data, the classification criteria are not met. No irritant effect.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

Based on available data, the classification criteria are not met. No sensitising effect known.

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.

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STOT-single exposure:

May cause drowsiness or dizziness.

STOT-repeated exposure:

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

Aspiration hazard:

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

11.2. Information on other hazards

Endocrine disrupting properties:

None of the ingredients are included.

SECTION 12: Ecological information

12.1. Toxicity

| |
|---|
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 |
| LC₅₀ : 4.26 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i>) |
| EC₅₀ : 10.7 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>) |
| EC₅₀ : 2.7 mg/L 2 d (crustaceans, <i>Daphnia magna</i>) |
| NOEC : 7.51 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>) |
| propane CAS No.: 74-98-6 EC No.: 200-827-9 |
| LC₅₀ : 9,640 mg/L 4 d (fish, <i>Pimephales promelas</i>) |
| LC₅₀ : 0.41 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i>) |
| LC₅₀ : 49.9 mg/L 4 d (fish) |
| EC₅₀ : >100 mg/L (Algae/water plant, Bacteria) |
| EC₅₀ : 0.17 mg/L 3 d (Algae/water plant, <i>Selenastrum capricornutum</i>) |
| EC₅₀ : 69.43 mg/L 2 d (crustaceans, <i>Daphnia</i>) |
| NOEC : 0.017 mg/L 3 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>) |
| ErC₅₀ : 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 |
| LC₅₀ : 9,640 mg/L 4 d (fish, <i>Pimephales promelas</i>) |
| LC₅₀ : >1,000 mg/L 4 d (fish) |
| EC₅₀ : >100 mg/L (Algae/water plant) |
| EC₅₀ : >100 mg/L 2 d (crustaceans, <i>Daphnia magna</i>) |
| EC₅₀ : >1,000 mg/L 2 d (crustaceans) |
| ErC₅₀ : >100 mg/L 3 d (Algae/water plant, <i>Desmodesmus subspicatus</i>) |
| LOEC : 1,000 mg/L (Algae/water plant, Algae) |
| LC₅₀ : 8,970 mg/L 2 d (fish, <i>Leuciscus idus</i> (golden orfe)) |

Assessment/classification:

No further relevant information available.

12.2. Persistence and degradability

| |
|--|
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 |
| 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). |

Additional information:

No further relevant information available.

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12.3. Bioaccumulative potential

| |
|---|
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 |
| Log K_{OW} : 3.39 |
| 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 |

Accumulation / Evaluation:

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

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

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Toxic to fish.

Toxic to aquatic life.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

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

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.

For Austria: Full and empty containers are to be disposed of by private end users at the responsible hazardous waste collection centre.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

| | |
|------------|-------------------------------------|
| 14 06 03 * | other solvents and solvent mixtures |
|------------|-------------------------------------|

*: Evidence for disposal must be provided.

Waste code packaging

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

Waste treatment options

Appropriate disposal / Package:

Uncleaned packaging: Dispose of waste according to applicable legislation.

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SECTION 14: Transport information

| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|--|--|---|--|
| 14.1. UN number or ID number | | | |
| UN 1950 | UN 1950 | UN 1950 | UN 1950 |
| 14.2. UN proper shipping name | | | |
| AEROSOLS, ENVIRONMENTALLY HAZARDOUS | AEROSOLS, ENVIRONMENTALLY HAZARDOUS | AEROSOLS (PENTANES), MARINE POLLUTANT | AEROSOLS, flammable |
| 14.3. Transport hazard class(es) | | | |
|  2.1 |  2.1 |  2.1 |  2.1 |
| 14.4. Packing group | | | |
| - | | | |
| 14.5. Environmental hazards | | | |
|  |  |  MARINE POLLUTANT | No |
| 14.6. Special precautions for user | | | |
| Special Provisions: 190 327 344 625 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E0 Classification code: 5F Tunnel restriction code: (D) | Special Provisions: 190 327 344 625 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E0 Classification code: 5F | Special Provisions: 63 190 277 327 344 381 959 Limited quantity (LQ): SV277 Excepted Quantities (EQ): E0 EmS-No.: F-D, S-U | Special Provisions: A145 A167 Limited quantity (LQ): Y203 Excepted Quantities (EQ): E0 |

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

Authorisations:

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

Restrictions on use:

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

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
- E2 Hazardous to the Aquatic Environment in Category Chronic 2

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Named dangerous substances:

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

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

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

Volatile organic compounds (VOC) content in percent by weight: 99.8 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 |
| BCF | Bioconcentration Factor |
| 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 |
| 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 |
| OSHA | Occupational Safety & Health Administration |
| PBT | persistent and bioaccumulative and toxic |
| PC | Product category |
| PNEC | Predicted No Effect Concentration |
| PROC | Process Category |
| 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 |
| VOC | Volatile organic compounds |

16.3. Key literature references and sources for data

No data available

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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. | |
| Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>) | H319: Causes serious eye irritation. | |
| STOT-single exposure (<i>STOT SE 3</i>) | H336: May cause drowsiness or dizziness. | |
| Hazardous to the aquatic environment (<i>Aquatic Chronic 2</i>) | H411: Toxic to aquatic life with long lasting effects. | |

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

| Hazard statements | |
|-------------------|---|
| H220 | Extremely flammable gas. |
| H225 | Highly flammable liquid and vapour. |
| H280 | Contains gas under pressure; may explode if heated. |
| H304 | May be fatal if swallowed and enters airways. |
| H336 | May cause drowsiness or dizziness. |
| H411 | Toxic to aquatic life with long lasting effects. |

| Supplemental hazard information | |
|---------------------------------|---|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |

16.6. Training advice

No data available

16.7. Additional information

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