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

1.1. Product identifier

Trade name/designation:

Release 500ml

Article No.:

T903001

UFI:

KS0Y-3W5M-202Q-UQVQ

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 | |
|--|--|--------------------------|--|
| Aerosols (Aerosol 1) | H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated. | | |
| STOT-single exposure (STOT SE 3) | H336: May cause drowsiness or dizziness. | | |
| Aspiration hazard (Asp. Tox. 1) | H304: May be fatal if swallowed and enters airways. | | |
| Hazardous to the aquatic environment (Aquatic Chronic 2) | H411: Toxic to aquatic life with long lasting effects. | | |

2.2. Label elements

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



GHS02 Flame



GHS07 Exclamation mark



GHS09 Environment

Signal word: Danger

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Hazard components for labelling:

pentane

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

| Hazard statements for health hazards | |
|--------------------------------------|------------------------------------|
| H336 | May cause drowsiness or dizziness. |

| Hazard statements for environmental hazards | | |
|---|--|--|
| 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 mist/vapours/spray. | |
| P271 | Use only outdoors or in a well-ventilated area. | |
| P273 | Avoid release to the environment. | |
| P280 | Wear protective gloves/eye protection. | |

| Precautionary statements Response | | |
|-----------------------------------|--|--|
| P304 + P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. | |
| P331 | Do NOT induce vomiting. | |

| Precautionary statements Storage | | |
|----------------------------------|--|--|
| P403 | Store in a well-ventilated place. | |
| P410 + P412 | Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. | |

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

2.3. Other hazards

Other adverse effects:

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Description:

Active ingredient mixture with propellant gas

Additional information:

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

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 | 50 - < 75 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) <p>♠ Danger</p> | 10 - < 25 Vol-% |

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| Product identifiers | Substance name Classification according to Regulation (EC) No 1272/2008 [CLP] | Concentration |
|--|--|---------------------|
| 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 | 10 - < 25 Vol-% |
| CAS No.: 8002-13-9 EC No.: 232-299-0 | Rape oil The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. | 2.5 - < 10 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 | 2.5 - < 10 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 (CO2), 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 discharges. Container is under pressure. Protect from sunlight and temperatures above 50°C (e.g. from incandescent lamps). Do not open by force or burn even after use.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

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

Hints on storage assembly:

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

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

Further information on storage conditions:

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

7.3. Specific end use(s)

Recommendation:

No further relevant information available.

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 | Long-term occupational exposure limit value Short-term occupational exposure limit value Instantaneous value Monitoring and observation processes Remark |
|--|--|--|
| MAK (AT) | pentane CAS No.: 109-66-0 EC No.: 203-692-4 | ② 1,200 ppm (3,600 mg/m³) 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/m³) |
| MAK (AT) | pentane CAS No.: 109-66-0 EC No.: 203-692-4 | ① 600 ppm (1,800 mg/m³) |

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| Limit value type (country of origin) | Substance name | Long-term occupational exposure limit value Short-term occupational exposure limit value Instantaneous value Monitoring and observation processes Remark |
|--|--|--|
| 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/m³) |
| 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/m³) ⑤ (max. 3x60 min./Schicht, Momentanwert) |
| MAK (AT) | propane CAS No.: 74-98-6 EC No.: 200-827-9 | ② 2,000 ppm (3,600 mg/m³) 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/m³) |
| 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/m³) 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/m³) |

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 |
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 432 mg/kg bw/ day | DNEL worker Long-term - dermal, systemic effects |
| pentane CAS No.: 109-66-0 EC No.: 203-692-4 | 214 mg/kg bw/ day | DNEL Consumer 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 |
| Substance name | PNEC Value | ① PNEC type |
| nontono | 0.22 mg/l | 1 DNECti- fra-tt |

| 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 |

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

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No further details. See section 7.

8.2.2. Personal protection equipment





Eve/face protection:

Safety goggles (EN-166)

Skin protection:

Hand protection:

Selection of glove material considering breakthrough times, permeation rates and degradation.

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. NBR (Nitrile rubber)

Recommended material thickness: \geq 0,5 mm

Permeation time (maximum wear duration):

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

Body protection:

Use protective suit. (EN-13034/6)

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

Respiratory protection:

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

Other protection measures:

General protective and hygienic measures: Remove contaminated, saturated clothing immediately. Keep away from food, drink and animal feed. Wash hands before breaks and after work. Do not inhale gases/vapours/aerosols. General ventilation.

8.2.3. Environmental exposure controls

Use a suitable container to prevent environmental pollution.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Aerosol

Odour: characteristic

Colour: According to product designation

Odour threshold: not determined

Safety relevant basis data

| Parameter | Value | at °C | ① Method |
|--|-------------------------|-------|---------------------------------|
| | | | ② Remark |
| рН | not applicable | | ② Mixture is not polar/aprotic. |
| Initial boiling point and boiling range | -44.5 °C | | |
| Flash point | -97 °C | | |
| Evaporation rate | No data available | | |
| Auto-ignition temperature | 285 °C | | |
| Upper/lower flammability or explosive limits | 1.4 - 10.9 Vol-% | | |
| Vapour pressure | 8,300 hPa | 20 °C | |
| Density | 0.606 g/cm ³ | 20 °C | |
| Bulk density | not applicable | | |
| Water solubility | Immiscible | | |
| Kinematic viscosity | ≤ 20.5 mm²/s | 40 °C | |

9.2. Other information

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

9.2.1. Information with regard to physical hazard classes

Explosives:

Not applicable

Flammable gases:

Not applicable

Aerosols:

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

Oxidizing gases:

Not applicable

Gases under pressure:

Not applicable

Flammable liquids:

Not applicable

Flammable solids:

Not applicable

Self-reactive substances and mixtures:

Not applicable

Pyrophoric liquids:

Not applicable

Pyrophoric solids:

Not applicable

Self-heating substances and mixtures:

Not applicable

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

Not applicable

Oxidizing liquids:

Not applicable

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Oxidizing solids:

Not applicable

Organic peroxides:

Not applicable

Corrosive to metals:

Not applicable

Desensitised explosives:

Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

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

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)

Isobutane (with < 0.1 % butadiene (203-450-8)) CAS No.: 75-28-5 EC No.: 200-857-2

LC₅₀ Acute inhalation toxicity (vapour): 52,000 mg/L 2 h (Rat)

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

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.

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Carcinogenicity:

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

Reproductive toxicity:

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

STOT-single exposure:

May cause drowsiness or dizziness.

STOT-repeated exposure:

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

Aspiration hazard:

May be fatal if swallowed and enters airways.

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, Oncorhynchus mykiss)

EC₅₀: 10.7 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)

EC₅₀: 2.7 mg/L 2 d (crustaceans, Daphnia magna)

NOEC: 7.51 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)

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

LC₅₀: 9,640 mg/L 4 d (fish, Pimephales promelas)

LC₅₀: 0.41 mg/L 4 d (fish, Oncorhynchus mykiss)

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, Selenastrum capricornutum)

EC₅₀: 69.43 mg/L 2 d (crustaceans, Daphnia)

NOEC: 0.017 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)

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)

Aquatic toxicity:

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

Biodegradation:

Not readily biodegradable.

Additional information:

No further relevant information available.

12.3. Bioaccumulative potential

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

Log K_{OW}: 3.39

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

Log Kow: 1.09

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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: — | | |
| Butane (with < 0,1 % butadiene (203-450-8)) CAS No.: 106-97-8 EC No.: 203-448-7 | | |
| Results of PBT and vPvB assessment: — | | |
| propane CAS No.: 74-98-6 EC No.: 200-827-9 | | |
| Results of PBT and vPvB assessment: — | | |
| Rape oil CAS No.: 8002-13-9 EC No.: 232-299-0 | | |
| Results of PBT and vPvB assessment: — | | |
| Isobutane (with < 0.1 % butadiene (203-450-8)) CAS No.: 75-28-5 EC No.: 200-857-2 | | |
| Results of PBT and vPvB assessment: — | | |

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

12.6. Endocrine disrupting properties

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

12.7. Other adverse effects

Toxic to fish.

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.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

| 07 01 04 * | other organic solvents, washing liquids and mother liquors | |
|--|--|--|
| 20 01 99 | Other fractions not otherwise specified | |
| *: Evidence for disposal must be provided. | | |

Directive 2008/98/EC (Waste Framework Directive)

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

Waste code packaging

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

Waste treatment options

Appropriate disposal / Package:

Uncleaned packaging: Dispose of waste according to applicable legislation.

SECTION 14: Transport information

| Land transport (ADR/RID) | Inland waterway craft (ADN) | • • • • | Air transport (ICAO-TI / IATA-DGR) |
|------------------------------|-----------------------------|---------|------------------------------------|
| 14.1. UN number or ID number | | | |
| UN 1950 | UN 1950 | UN 1950 | UN 1950 |

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| Land transport (ADR/RID) | Inland waterway craft (ADN) | Sea transport (IMDG) | Air transport (ICAO-TI / IATA-DGR) |
|--|--|---|---|
| 14.2. UN proper ship | ping name | | |
| AEROSOLS, ENVIRONMENTALLY HAZARDOUS | AEROSOLS, ENVIRONMENTALLY HAZARDOUS | AEROSOLS, MARINE POLLUTANT | AEROSOLS, flammable |
| 14.3. Transport haza | rd class(es) | | |
| 2.1 | 2.1 | 2.1 | 2.1 |
| 14.4. Packing group | | | |
| | | - | |
| 14.5. Environmental | hazards | | |
| (¥2) | No | MARINE POLLUTANT | No |
| 14.6. Special precau | tions for user | | |
| Special Provisions: 190 327 344 625 Limited quantity (LQ): 1 L Excepted Quantities | Special Provisions: 190 327 344 625 Limited quantity (LQ): 1 L Excepted Quantities | Special Provisions: 63 190 277 327 344 381 959 Limited quantity (LQ): Siehe SV277 | Special Provisions: A145 A167 Limited quantity (LQ): Y203 Excepted Quantities |
| (EQ): E0 | (EQ): E0 | Excepted Quantities (EQ): | (EQ): E0 |
| Classification code: 5F | Classification code: 5F | E0 EmS-No.: F-D. S-U | Remark: Attention: Gases |
| Tunnel restriction code: (D) Remark: Attention: Gases | Remark: Attention: Gases | Remark: Attention: 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

Authorisations:

Directive 2012/18/EU

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

Restrictions on use:

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

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

Regulation (EU) 2019/1148

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

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

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

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

Other regulations (EU):

Hazard categories:

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

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

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• E2 Hazardous to the Aquatic Environment in Category Chronic 2

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: 569.6 g/L

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

SECTION 16: Other information

16.1. Indication of changes

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 EC₅₀ Effective Concentration 50%

EN European Standard ES Exposure scenario

EWC European Waste Catalogue

ICAO International Civil Aviation Organization
IMDG International Maritime Dangerous Goods
IMO International Maritime Organization

KG body weight

LC₅₀ Lethal (fatal) Concentration 50%

LD₅₀ 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

QSAR Quantitative Structure-Activity Relationship

REACH Registration, Evaluation and Authorization of Chemicals RID Dangerous goods regulations for transport by rail

TRGS Technische Regeln für Gefahrstoffe

UN United Nations

VOC Volatile organic compounds ZNS central nervous system

16.3. Key literature references and sources for data

No data available

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

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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 (Aerosol 1) | H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated. | |
| STOT-single exposure (STOT SE 3) | H336: May cause drowsiness or dizziness. | |
| Aspiration hazard (Asp. Tox. 1) | H304: May be fatal if swallowed and enters airways. | |
| Hazardous to the aquatic environment (Aquatic Chronic 2) | 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.