

SAFETY DATA SHEET

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

Revision date: 19 Jan 2023

Print date: 24 Jan 2023

Version: 1



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Multi-X 500ml

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

1.1. Product identifier

Trade name/designation:

Multi-X 500ml

Article No.:

X320001

UFI:

7WX4-0PPK-XGSQ-8R9M

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:

Techniqua Handels GmbH

Hartleitnerstraße 3

4653 Eberstälzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: office@techniqua.at

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.	
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	

2.2. Label elements

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

Hazard pictograms:



GHS07

Exclamation mark



GHS02

Flame

Signal word: Danger

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Hazard components for labelling:

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics

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.
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Supplemental hazard information

EUH066	Repeated exposure may cause skin dryness or cracking.
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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.

Precautionary statements Response

P304 + P312	IF INHALED: Call a POISON CENTER/doctor/24 hr. emergency phone number/ if you feel unwell.
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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:

This mixture does not contain substances classified as PBT or vPvB substances. In use, may form flammable/explosive vapour-air mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Additional information:

The wording of the listed hazard statements can be found in section 16.

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 75-28-5 EC No.: 200-857-2 Index No.: 601-004-00-0 REACH No.: 01-2119485395-27	Isobutane Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger	60 - ≤ 100 %
	Aliphatic hydrocarbons, fragrances The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	18 - < 35 %
CAS No.: 1174921-73-3 EC No.: 927-241-2 REACH No.: 01-2119471843-32	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics Aquatic Chronic 3 (H412), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), STOT SE 3 (H336) Danger	14 - < 25 %
CAS No.: 64742-48-9 EC No.: 918-481-9 REACH No.: 01-2119463258-33	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics Asp. Tox. 1 (H304) Danger	5 - < 11 %
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 (Liq.) (H280) Danger	5 - < 10 %

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
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 (Liq.) (H280) Danger	1 - < 3 %
CAS No.: 1471316-72-9 EC No.: 939-603-7 REACH No.: 01-2119978241-36	Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	0.1 %

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

SECTION 4: First aid measures

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 soap and water. 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:

Rinse cautiously with water for several minutes. 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:

Do NOT induce vomiting. 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.

5.4. Additional information

Pressurised container: May burst if heated.

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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:

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.

6.1.2. For emergency responders

No data available

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

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

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.

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.

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)	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)	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 918-481-9	① 200 mL/m ³ ② 400 mL/m ³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von weniger als 1 %, an n-Hexan von weniger als 5 % und an Cyclo-/Isohexanen von weniger als 25 %)
MAK (AT)	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 918-481-9	① 170 mL/m ³ ② 340 mL/m ³ 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)	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 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)

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
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 1174921-73-3 EC No.: 927-241-2	871 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 1174921-73-3 EC No.: 927-241-2	185 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 1174921-73-3 EC No.: 927-241-2	77 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
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 1174921-73-3 EC No.: 927-241-2	46 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 1174921-73-3 EC No.: 927-241-2	46 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 918-481-9	871 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 918-481-9	185 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 918-481-9	208 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 918-481-9	125 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 918-481-9	125 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts CAS No.: 1471316-72-9 EC No.: 939-603-7	35.26 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts CAS No.: 1471316-72-9 EC No.: 939-603-7	8.7 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts CAS No.: 1471316-72-9 EC No.: 939-603-7	25 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts CAS No.: 1471316-72-9 EC No.: 939-603-7	12.5 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts CAS No.: 1471316-72-9 EC No.: 939-603-7	1.04 mg/cm ²	① DNEL worker ② Acute - dermal, local effects
Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts CAS No.: 1471316-72-9 EC No.: 939-603-7	0.518 mg/cm ²	① DNEL Consumer ② Acute - dermal, local effects

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Substance name	DNEL value	① DNEL type ② Exposure route
Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts CAS No.: 1471316-72-9 EC No.: 939-603-7	2.5 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts CAS No.: 1471316-72-9 EC No.: 939-603-7	0.1 mg/L	① PNEC aquatic, freshwater
Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts CAS No.: 1471316-72-9 EC No.: 939-603-7	0.1 mg/L	① PNEC aquatic, marine water
Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts CAS No.: 1471316-72-9 EC No.: 939-603-7	1,000 mg/L	① PNEC sewage treatment plant
Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts CAS No.: 1471316-72-9 EC No.: 939-603-7	45,211 mg/kg	① PNEC sediment, freshwater
Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts CAS No.: 1471316-72-9 EC No.: 939-603-7	45,211 mg/kg	① PNEC sediment, marine water
Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts CAS No.: 1471316-72-9 EC No.: 939-603-7	36,729.74 mg/kg	① PNEC soil
Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts CAS No.: 1471316-72-9 EC No.: 939-603-7	1 mg/L	① PNEC aquatic, intermittent release

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

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:

Observe the wear time limits as specified by the manufacturer.

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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: brown

Odour: sweetish

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	not determined		
Melting point	not determined		
Freezing point	not determined		
Initial boiling point and boiling range	-40 °C		
Decomposition temperature	not determined		
Flash point	-80 °C		
Evaporation rate	not determined		
Auto-ignition temperature	not determined		
Upper/lower flammability or explosive limits	0.6 – 15 Vol-%		
Vapour pressure	not determined		
Vapour density	not determined		
Density	0.783 g/cm ³	20 °C	
Relative density	not determined		
Bulk density	not determined		
Water solubility	not determined		
Partition coefficient: n-octanol/water	not determined		
Dynamic viscosity	not determined		
Kinematic viscosity	< 7 mm ² /s		

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 information available.

10.2. Chemical stability

Chemically stable under conditions of storage, handling and use.

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.

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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

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 1174921-73-3
EC No.: 927-241-2

LD₅₀ oral: >15,000 mg/kg (Ratte)

LD₅₀ dermal: >5,000 mg/kg (Kaninchen)

LC₅₀ Acute inhalation toxicity (vapour): >4,951 mg/L 4 h (Ratte)

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)

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9
EC No.: 918-481-9

LD₅₀ oral: >8,000 mg/kg (Ratte)

LD₅₀ dermal: >3,160 mg/kg (Kaninchen)

LC₅₀ Acute inhalation toxicity (gas): 4,951 ppmV 4 h (Rat)

LC₅₀ Acute inhalation toxicity (vapour): 4,951 mg/L 4 h (Ratte)

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)

Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts CAS No.: 1471316-72-9 EC No.: 939-603-7

LD₅₀ oral: >10,000 - <20,000 mg/kg (Ratte)

LD₅₀ dermal: >2,000 mg/kg (Ratte)

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:

Repeated exposure may cause skin dryness or cracking.

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

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:

May cause drowsiness or dizziness. (Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics)

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STOT-repeated exposure:

Repeated exposure may cause skin dryness or cracking.

Aspiration hazard:

May be fatal if swallowed and enters airways.

Additional information:

No data available

11.2. Information on other hazards

No data available

SECTION 12: Ecological information

12.1. Toxicity

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)
ErC ₅₀ : 19.37 mg/L 4 d (Algae/water plant)
EC ₅₀ : 69.43 mg/L 2 d (crustaceans, Daphnia sp.)
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 1174921-73-3 EC No.: 927-241-2
LC ₅₀ : >1,000 mg/L 4 d (fish, Oncorhynchus mykiss (Regenbogenforelle))
LC ₅₀ : >1,000 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
EC ₅₀ : >1,000 mg/L 2 d (crustaceans, Daphnia magna)
NOEC: 0.182 mg/L 28 d (fish, Oncorhynchus mykiss)
ErC ₅₀ : >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
ErC ₅₀ : >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
propane CAS No.: 74-98-6 EC No.: 200-827-9
LC ₅₀ : 9,640 mg/L 4 d (fish, Pimephales promelas)
EC ₅₀ : >100 mg/L (Algae/water plant, Bacteria)
LOEC: 1,000 mg/L (Algae/water plant, Algae)
LC ₅₀ : 0.41 mg/L 4 d (fish, Oncorhynchus mykiss)
EC ₅₀ : 0.17 mg/L 3 d (Algae/water plant, Selenastrum capricornutum)
NOEC: 0.017 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
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)
LOEC: 1,000 mg/L (Algae/water plant, Alge)
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 918-481-9
LC ₅₀ : >1,000 mg/L 4 d (fish, Oncorhynchus mykiss (Regenbogenforelle))
LC ₅₀ : >1,000 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
EC ₅₀ : >1,000 mg/L 2 d (crustaceans, Daphnia magna)
ErC ₅₀ : >1,000 mg/L 4 d (Algae/water plant, Scenedesmus subspicatus)
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)
Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts CAS No.: 1471316-72-9 EC No.: 939-603-7
LC ₅₀ : >100 mg/L 4 d (fish, Oncorhynchus mykiss)
EC ₅₀ : >1,000 mg/L 2 d (Algae/water plant, Pseudokirchneriella subcapitata)
ErC ₅₀ : >1,000 mg/L 3 d (crustaceans)

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12.2. Persistence and degradability

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
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 1174921-73-3 EC No.: 927-241-2
Bioconcentration factor (BCF): 144.3
propane CAS No.: 74-98-6 EC No.: 200-827-9
Log K_{OW}: 1.09
butane CAS No.: 106-97-8 EC No.: 203-448-7
Log K_{OW}: 1.09
Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts CAS No.: 1471316-72-9 EC No.: 939-603-7
Log K_{OW}: > 6.91
Bioconcentration factor (BCF): 70.8

Accumulation / Evaluation:

There are no data available on the mixture itself.

12.4. Mobility in soil

No information 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: —
Aliphatic hydrocarbons, fragrances
Results of PBT and vPvB assessment: —
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 1174921-73-3 EC No.: 927-241-2
Results of PBT and vPvB assessment: —
propane CAS No.: 74-98-6 EC No.: 200-827-9
Results of PBT and vPvB assessment: —
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 918-481-9
Results of PBT and vPvB assessment: —
butane CAS No.: 106-97-8 EC No.: 203-448-7
Results of PBT and vPvB assessment: —
Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts CAS No.: 1471316-72-9 EC No.: 939-603-7
Results of PBT and vPvB assessment: —

This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

12.6. Endocrine disrupting properties

No data available

12.7. Other adverse effects

No information available.

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.

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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
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*: Evidence for disposal must be provided.

Waste code packaging

15 01 04	metallic packaging
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Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

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	No data available	 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): 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): Siehe SV277 Excepted Quantities (EQ): E0 EmS-No.: F-D, S-U	Special Provisions: A145 A167 Limited quantity (LQ): Y203 Excepted Quantities (EQ): E0 Remark: IATA Packing Instructions - Passenger: 203 IATA Maximum Quantity - Passenger: 75 kg IATA-Verpackungsanweisung - Cargo: 203 IATA Maximum Quantity - Cargo: 150 kg

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:

Regulation (EC) No 1907/2006 ANNEX XVII

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Aerosol Directive (75/324/)

Restrictions on use:

Restrictions on use (REACH, Annex XVII) Entry 3, Entry 28

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

No data available

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
AOX	Adsorbable Organic halogen compounds
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
KG	body weight
LC ₅₀	Lethal (fatal) Concentration 50%
LD ₅₀	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
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
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.	
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	

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Hazard classes and hazard categories	Hazard statements	Classification procedure
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H220	Extremely flammable gas.
H226	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.
H412	Harmful to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

No data available