

# SAFETY DATA SHEET

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

**Revision date:** 7 Mar 2023

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## Multi Tech 6 500ml

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

#### 1.1. Product identifier

**Trade name/designation:**

Multi Tech 6 500ml

**Article No.:**

T206001

**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:**

**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.	
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.	
STOT-repeated exposure ( <i>STOT RE 1</i> )	H372: Causes damage to organs through prolonged or repeated exposure.	
Hazardous to the aquatic environment ( <i>Aquatic Chronic 3</i> )	H412: Harmful 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



**GHS08**  
Health hazard

**Signal word:** Danger

**Hazard components for labelling:**

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics; Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, aromatics (2-25 %)

#### 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.
H372	Causes damage to organs through prolonged or repeated exposure.

#### Hazard statements for environmental hazards

H412	Harmful to aquatic life with long lasting effects.
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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.
P260	Do not breathe spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.

#### Precautionary statements Response

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P314	Get medical advice/attention if you feel unwell.

#### 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.

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

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.

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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.: 75-28-5 EC No.: 200-857-2 REACH No.: 01-2119485395-27	<b>isobutane</b> Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger	50 - < 100 Vol-%
	<b>Aliphatic hydrocarbons</b> The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	≥ 30 Vol-%
CAS No.: 1174921-73-3 EC No.: 927-241-2 REACH No.: 01-2119471843-32	<b>Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, &lt;2% aromatics</b> Aquatic Chronic 3 (H412), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), STOT SE 3 (H336) Danger	20 - < 25 Vol-%
CAS No.: 74-98-6 EC No.: 200-827-9 REACH No.: 01-2119486944-21	<b>propane</b> Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger	5 - < 10 Vol-%
CAS No.: 64742-82-1 EC No.: 919-164-8 REACH No.: 01-2119458049-33	<b>Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, aromatics (2-25 %)</b> Aquatic Chronic 3 (H412), Asp. Tox. 1 (H304), STOT RE 1 (H372) Danger	5 - < 10 Vol-%
CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0 REACH No.: 01-2119474691-32	<b>butane</b> Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger	1 - < 3 Vol-%
CAS No.: 1471316-72-9 EC No.: 939-603-7 REACH No.: 01-2119978241-36	<b>Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts</b> Skin Sens. 1B (H317) Warning <b>Specific concentration limit (SCL)</b> Skin Sens. 1B; H317: 10% ≤ C < 100%	< 0.1 Vol-%

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 water and soap. Take off immediately all contaminated clothing and wash it before reuse. When in doubt or if symptoms are observed, get medical advice.

#### After eye contact:

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

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### 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 (CO<sub>2</sub>), 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, CO<sub>2</sub>, 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.

## 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

##### Personal protection equipment:

Fight fire with normal precautions from a reasonable distance.

### 6.2. Environmental precautions

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

### 6.3. Methods and material for containment and cleaning up

#### For containment:

Prevent spread over a wide area (e.g. by containment or oil barriers).

#### For cleaning up:

Clean contaminated articles and floor according to the environmental legislation.

#### Other information:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Clean contaminated articles and floor according to the environmental legislation.

### 6.4. Reference to other sections

Further information on proper storage: see section 7.

For further information on personal protective equipment: see section 8.

For further information on disposal: see section 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Protective measures

#### Advices on safe handling:

Observe instructions for use.

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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.

## 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)	<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2	② 1,600 ppm (3,800 mg/m <sup>3</sup> ) ⑤ (max. 3x60 min./Schicht Momentanwert)
MAK (AT)	<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2	① 800 ppm (1,900 mg/m <sup>3</sup> )
MAK (AT)	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	② 2,000 ppm (3,600 mg/m <sup>3</sup> ) ⑤ (max. 3x60 min./Schicht, Momentanwert)
MAK (AT)	<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m <sup>3</sup> )
MAK (AT)	<b>Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, aromatics (2-25 %)</b> CAS No.: 64742-82-1 EC No.: 919-164-8	① 20 mL/m <sup>3</sup> ② 40 mL/m <sup>3</sup> ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von mehr als 25 %)

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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)	<b>Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, aromatics (2-25 %)</b> CAS No.: 64742-82-1 EC No.: 919-164-8	① 70 mL/m <sup>3</sup> ② 140 mL/m <sup>3</sup> ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von 1 % bis 25 % und an Hexanen von weniger als 1 %)
MAK (AT)	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,900 mg/m <sup>3</sup> )
MAK (AT)	<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7	② 1,600 ppm (3,800 mg/m <sup>3</sup> ) 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
<b>Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, &lt;2% aromatics</b> CAS No.: 1174921-73-3 EC No.: 927-241-2	871 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, &lt;2% aromatics</b> CAS No.: 1174921-73-3 EC No.: 927-241-2	185 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
<b>Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, &lt;2% aromatics</b> CAS No.: 1174921-73-3 EC No.: 927-241-2	77 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
<b>Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, &lt;2% aromatics</b> CAS No.: 1174921-73-3 EC No.: 927-241-2	46 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
<b>Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, &lt;2% aromatics</b> CAS No.: 1174921-73-3 EC No.: 927-241-2	46 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
<b>Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts</b> CAS No.: 1471316-72-9 EC No.: 939-603-7	35.26 mg/m <sup>3</sup>	① DNEL worker ② Long-term - inhalation, systemic effects
<b>Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts</b> CAS No.: 1471316-72-9 EC No.: 939-603-7	8.7 mg/m <sup>3</sup>	① DNEL Consumer ② Long-term - inhalation, systemic effects
<b>Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts</b> CAS No.: 1471316-72-9 EC No.: 939-603-7	25 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
<b>Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts</b> 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

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Substance name	DNEL value	① DNEL type ② Exposure route
<b>Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts</b> CAS No.: 1471316-72-9 EC No.: 939-603-7	1.04 mg/cm <sup>2</sup>	① DNEL worker ② Acute - dermal, local effects
<b>Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts</b> CAS No.: 1471316-72-9 EC No.: 939-603-7	0.518 mg/cm <sup>2</sup>	① DNEL Consumer ② Acute - dermal, local effects
<b>Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts</b> 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
<b>Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts</b> CAS No.: 1471316-72-9 EC No.: 939-603-7	0.1 mg/L	① PNEC aquatic, freshwater
<b>Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts</b> CAS No.: 1471316-72-9 EC No.: 939-603-7	0.1 mg/L	① PNEC aquatic, marine water
<b>Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts</b> CAS No.: 1471316-72-9 EC No.: 939-603-7	1,000 mg/L	① PNEC sewage treatment plant
<b>Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts</b> CAS No.: 1471316-72-9 EC No.: 939-603-7	45,211 mg/kg	① PNEC sediment, freshwater
<b>Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts</b> CAS No.: 1471316-72-9 EC No.: 939-603-7	45,211 mg/kg	① PNEC sediment, marine water
<b>Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts</b> CAS No.: 1471316-72-9 EC No.: 939-603-7	36,729.74 mg/kg	① PNEC soil
<b>Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts</b> 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.



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The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material: NBR (Nitrile rubber) Breakthrough time: 480 min.

Thickness of the glove material: 0,45 mm

EN ISO 374

Body protection:

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

### Respiratory protection:

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

If the relevant occupational exposure limits are exceeded, the following must be observed: Suitable respiratory protective device: Combination filter device (DIN EN 141). Filter unit with filter or blower filter unit type: AX

Observe the wear time limits as specified by the manufacturer.

Observe legal rules and regulations.

### 8.2.3. Environmental exposure controls

Observe legal rules and regulations.

## SECTION 9: Physical and chemical properties

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

#### Appearance

**Physical state:** Aerosol

**Colour:** light brown

**Odour:** Vanilla

#### Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	No data available		
Initial boiling point and boiling range	-40 °C		
Flash point	-80 °C		
Evaporation rate	No data available		
Upper/lower flammability or explosive limits	0.6 – 9.4 Vol-%		
Vapour pressure	No data available		
Density	0.795 g/cm <sup>3</sup>	20 °C	
Bulk density	not applicable		
Water solubility	practically insoluble		

### 9.2. Other information

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

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No 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.



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### 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, CO<sub>2</sub>, aldehydes and soot. These can be very dangerous if inhaled in high concentrations or in enclosed spaces.

#### Further information

Do not mix with other chemicals.

## SECTION 11: Toxicological information

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

<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2
<b>LD<sub>50</sub> oral:</b> >15,000 mg/kg
<b>LD<sub>50</sub> dermal:</b> >5,000 mg/kg
<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >4,951 mg/L
<b>Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, &lt;2% aromatics</b> CAS No.: 1174921-73-3 EC No.: 927-241-2
<b>LD<sub>50</sub> oral:</b> >5,000 mg/kg (Rat) OECD 423
<b>LD<sub>50</sub> dermal:</b> >5,000 mg/kg (Rabbit) OECD 402
<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >4,951 mg/L 4 h (Rat)
<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9
<b>LD<sub>50</sub> oral:</b> 5,840 mg/kg (Rat)
<b>LD<sub>50</sub> dermal:</b> 13,900 mg/kg (Rabbit)
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> >25 ppmV 4 h (Rat)
<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> ≥50 mg/L 4 h (Rat)
<b>Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, aromatics (2-25 %)</b> CAS No.: 64742-82-1 EC No.: 919-164-8
<b>LD<sub>50</sub> oral:</b> >15,000 mg/kg (Rat)
<b>LD<sub>50</sub> dermal:</b> >3,400 mg/kg (Rabbit) OECD 403
<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> >13.1 mg/L 4 h (Rat) OECD 401
<b>LC<sub>50</sub> Acute inhalation toxicity (dust/mist):</b> 13.1 mg/L 4 h (Rat)
<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7
<b>LD<sub>50</sub> oral:</b> ≥5,000 mg/kg (Rat)
<b>LD<sub>50</sub> dermal:</b> ≥5,000 mg/kg (Rabbit)
<b>LC<sub>50</sub> Acute inhalation toxicity (gas):</b> 658 ppmV 4 h (Rat)
<b>LC<sub>50</sub> Acute inhalation toxicity (vapour):</b> ≥50 mg/L 4 h (Rat)
<b>Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts</b> CAS No.: 1471316-72-9 EC No.: 939-603-7
<b>LD<sub>50</sub> oral:</b> >10,000 - <20,000 mg/kg (Rat)
<b>LD<sub>50</sub> dermal:</b> >2,000 mg/kg (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:

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.

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### 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, C10-C13, n-alkanes, iso-alkanes, cyclenes, aromatics (2-25 %))

### STOT-repeated exposure:

Repeated exposure may cause skin dryness or cracking. Causes damage to organs through prolonged or repeated exposure. (Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, aromatics (2-25 %))

### 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

<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2
<b>LC<sub>50</sub></b> : 91.42 mg/L 4 d (fish, Fish, no other information)
<b>LC<sub>50</sub></b> : 100 mg/L 4 d (fish, Danio rerio)
<b>EC<sub>50</sub></b> : 69.43 mg/L 2 d (crustaceans, Daphnia sp.)
<b>EC<sub>50</sub></b> : 1,000 mg/L 2 d (fish, Daphnia magna)
<b>ErC<sub>50</sub></b> : 19.37 mg/L 4 d (Algae/water plant, Algae)
<b>Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, &lt;2% aromatics</b> CAS No.: 1174921-73-3 EC No.: 927-241-2
<b>LC<sub>50</sub></b> : >1,000 mg/L 4 d (fish, Oncorhynchus mykiss (Regenbogenforelle))
<b>LC<sub>50</sub></b> : >1,000 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
<b>EC<sub>50</sub></b> : >1,000 mg/L 2 d (crustaceans, Daphnia magna)
<b>NOEC</b> : 0.182 mg/L 28 d (fish, Oncorhynchus mykiss)
<b>ErC<sub>50</sub></b> : >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
<b>ErC<sub>50</sub></b> : >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9
<b>LC<sub>50</sub></b> : 9,640 mg/L 4 d (fish, Pimephales promelas)
<b>LC<sub>50</sub></b> : 0.41 mg/L 4 d (fish, Oncorhynchus mykiss)
<b>LC<sub>50</sub></b> : 49.9 mg/L 4 d (fish)
<b>EC<sub>50</sub></b> : >100 mg/L (Algae/water plant, Bacteria)
<b>EC<sub>50</sub></b> : 0.17 mg/L 3 d (Algae/water plant, Selenastrum capricornutum)
<b>EC<sub>50</sub></b> : 69.43 mg/L 2 d (crustaceans, Daphnia)
<b>NOEC</b> : 0.017 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
<b>ErC<sub>50</sub></b> : 19.37 mg/L 4 d (Algae/water plant)
<b>LOEC</b> : 1,000 mg/L (Algae/water plant, Algae)
<b>LOEC</b> : 1,000 mg/L (Algae/water plant, Alge)

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<b>Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, aromatics (2-25 %)</b> CAS No.: 64742-82-1 EC No.: 919-164-8
<b>ErC<sub>50</sub></b> : 4.1 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201
<b>EC<sub>50</sub></b> : 10 – 22 mg/L 2 d (crustaceans, Daphnia magna) OECD 202
<b>NOEC</b> : 0.13 mg/L 28 d (fish, Oncorhynchus mykiss)
<b>NOEC</b> : 0.28 mg/L 21 d (crustaceans, Daphnia magna) OECD 211
<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7
<b>LC<sub>50</sub></b> : 49.9 mg/L 4 d (fish)
<b>EC<sub>50</sub></b> : 69.43 mg/L 2 d (crustaceans, Daphnia)
<b>ErC<sub>50</sub></b> : 19.37 mg/L 4 d (Algae/water plant)
<b>Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts</b> CAS No.: 1471316-72-9 EC No.: 939-608-7
<b>LC<sub>50</sub></b> : >100 mg/L 4 d (fish, Oncorhynchus mykiss)
<b>EC<sub>50</sub></b> : >1,000 mg/L 2 d (Algae/water plant, Pseudokirchneriella subcapitata)
<b>ErC<sub>50</sub></b> : >1,000 mg/L 3 d (crustaceans)

### 12.2. Persistence and degradability

<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9
<b>Biodegradation</b> : Yes, rapidly
<b>Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, aromatics (2-25 %)</b> CAS No.: 64742-82-1 EC No.: 919-164-8
<b>Biodegradation</b> : Yes, rapidly
<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7
<b>Biodegradation</b> : Yes, rapidly

#### Additional information:

The product has not been tested.

### 12.3. Bioaccumulative potential

<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2
<b>Log K<sub>ow</sub></b> : 1.09
<b>Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, &lt;2% aromatics</b> CAS No.: 1174921-73-3 EC No.: 927-241-2
<b>Bioconcentration factor (BCF)</b> : 144.3 Species: calculated
<b>propane</b> CAS No.: 74-98-6 EC No.: 200-827-9
<b>Log K<sub>ow</sub></b> : 1.09
<b>Hydrocarbons, C10-C13, n-alkanes, iso-alkanes, cyclenes, aromatics (2-25 %)</b> CAS No.: 64742-82-1 EC No.: 919-164-8
<b>Log K<sub>ow</sub></b> : 4.2
<b>butane</b> CAS No.: 106-97-8 EC No.: 203-448-7
<b>Log K<sub>ow</sub></b> : 1.09
<b>Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts</b> CAS No.: 1471316-72-9 EC No.: 939-608-7
<b>Log K<sub>ow</sub></b> : > 6.91
<b>Bioconcentration factor (BCF)</b> : 70.8 Species: Fish, not further specified.

#### Accumulation / Evaluation:

The product has not been tested.

### 12.4. Mobility in soil

No information available.

### 12.5. Results of PBT and vPvB assessment

<b>isobutane</b> CAS No.: 75-28-5 EC No.: 200-857-2
<b>Results of PBT and vPvB assessment</b> : —

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**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, iso-alkanes, cyclenes, aromatics (2-25 %)** CAS No.: 64742-82-1  
EC No.: 919-164-8

**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:** —

**Aliphatic hydrocarbons**

**Results of PBT and vPvB assessment:** —

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

The product has not been tested.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

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.

#### 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)
<b>14.1. UN number or ID number</b>			
UN 1950	UN 1950	UN 1950	UN 1950
<b>14.2. UN proper shipping name</b>			
AEROSOLS	AEROSOLS	AEROSOLS	AEROSOLS, flammable
<b>14.3. Transport hazard class(es)</b>			
 2.1	 2.1	 2.1	 2.1
<b>14.4. Packing group</b>			
		-	

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.5. Environmental hazards</b>			
No	No	No	No
<b>14.6. Special precautions for user</b>			
<b>Special Provisions:</b> 190   327   344   625 <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities (EQ):</b> E0 <b>Classification code:</b> 5F <b>Tunnel restriction code:</b> (D) <b>Remark:</b> Attention: Gases	<b>Special Provisions:</b> 190   327   344   625 <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities (EQ):</b> E0 <b>Classification code:</b> 5F <b>Remark:</b> Attention: Gases	<b>Special Provisions:</b> 63   190   277   327   344   381   959 <b>Limited quantity (LQ):</b> 1000 mL <b>Excepted Quantities (EQ):</b> E0 <b>EmS-No.:</b> F-D, S-U <b>Remark:</b> Attention: Gases	<b>Special Provisions:</b> A145   A167   A802 <b>Limited quantity (LQ):</b> Y203 <b>Excepted Quantities (EQ):</b> E0 <b>Remark:</b> IATA Packing Instructions - Passenger: 203 IATA Maximum Quantity - Passenger: 75 kg IATA-Verpackungsanweisung - Cargo: 203 IATA Maximum Quantity - Cargo: 150 kg 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:

Regulation (EC) No 1907/2006 ANNEX XVII  
Aerosol Directive (75/324/EEC)

##### Restrictions on use:

Restrictions on use (REACH, Annex XVII) Entry 3, Entry 28, Entry 40, Entry 75

#### 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
AOX	Adsorbable Organic halogen compounds
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC <sub>50</sub>	Effective Concentration 50%
EN	European Standard

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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 <sub>50</sub>	Lethal (fatal) Concentration 50%
LD <sub>50</sub>	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.	
STOT-single exposure ( <i>STOT SE 3</i> )	H336: May cause drowsiness or dizziness.	
STOT-repeated exposure ( <i>STOT RE 1</i> )	H372: Causes damage to organs through prolonged or repeated exposure.	
Hazardous to the aquatic environment ( <i>Aquatic Chronic 3</i> )	H412: Harmful 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.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H372	Causes damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.

### 16.6. Training advice

No data available

### 16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials

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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.