

SAFETY DATA SHEET

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

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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 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
aerosol dispensers and lighters (<i>Aerosol 1</i>)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	On basis of test data.
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	Calculation method.
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	Calculation method.

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 spray.
P271	Use only outdoors or in a well-ventilated area.

Precautionary statements Response

P304 + P312	IF INHALED: Call a POISON CENTER/doctor/ 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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Precautionary statements Disposal

P501	Dispose of the contents / container in accordance with local / regional / national / international regulations.
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* 2.3. Other hazards

Other adverse effects:

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. This product does not contain any substance that exhibits endocrine disrupting properties towards non-target organisms, as no ingredient fulfills the criteria.

SECTION 3: Composition/information on ingredients

* 3.2. Mixtures

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 (contains < 0.1% butadiene (203-450-8)) Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger	50 - < 100 %
CAS No.: 64742-48-9 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 Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) > 5,000 mg/kg ATE (inhalation, vapour) > 4,951 mg/L Additional information: EUH066	20 - < 25 %

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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 Acute Toxicity Estimate ATE (oral) 5,840 mg/kg ATE (dermal) 13,900 mg/kg ATE (inhalation, gases) > 25 ppmV ATE (inhalation, vapour) ≥ 50 mg/L	5 - < 10 %
CAS No.: 64742-48-9 EC No.: 918-481-9 REACH No.: 01-2119457273-39	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics Asp. Tox. 1 (H304) ⚠ Danger Acute Toxicity Estimate ATE (oral) > 8,000 mg/kg ATE (dermal) > 3,160 mg/kg ATE (inhalation, vapour) > 0.004951 mg/L ATE (inhalation, dust/mist) > 4,951 mg/L Additional information: EUH066	5 - < 10 %
CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0 REACH No.: 01-2119474691-32	butane Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) ⚠ Danger Acute Toxicity Estimate ATE (oral) ≥ 5,000 mg/kg ATE (dermal) ≥ 5,000 mg/kg ATE (inhalation, gases) 658 ppmV ATE (inhalation, vapour) ≥ 50 mg/L	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 Skin Sens. 1B (H317) ⚠ Warning Specific concentration limit (SCL) Skin Sens. 1B; H317: 10% ≤ C < 100% Acute Toxicity Estimate ATE (oral) > 10,000 - < 20,000 mg/kg ATE (dermal) > 2,000 mg/kg	< 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:

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:

After contact with skin, wash immediately 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. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms occur or persist, consult an ophthalmologist.

Following ingestion:

Do NOT induce vomiting. Observe risk of aspiration if vomiting occurs. Call a physician in any case!

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 also appear many hours after exposure.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water mist, Foam, Carbon dioxide (CO₂), Extinguishing powder

Unsuitable extinguishing media:

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

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

General information 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.

First aider: Pay attention to self-protection!

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

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Observe instructions for use. Avoid contact with eyes and skin. 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. Wear suitable protective clothing when working. 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. Observe legal rules and regulations.

Hints on storage assembly:

Do not store together with: Oxidizing agent, Pyrophoric or self-heating substances, Food and feedingstuffs.

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. Observe legal rules and regulations.

7.3. Specific end use(s)

No data 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)	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 64742-48-9 EC No.: 927-241-2	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, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 64742-48-9 EC No.: 927-241-2	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)

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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)	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)

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, 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

8.2. Exposure controls

8.2.1. Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used.

8.2.2. Personal protection equipment

Eye/face protection:

Suitable eye protection: Tight-fitting safety goggles. EN 166

Skin protection:

Hand protection:

Preventive skin protection with skin protection ointment. 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.

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Thickness of the glove material: 045 mm, EN ISO 374

Body protection:

Wear suitable protective clothing when working. 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

Form: Aerosol

Colour: brown

Odour: sweetish

flammability: No data available

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	No data available		
Melting point	No data available		
Freezing point	No data available		
Initial boiling point and boiling range	-42 °C		
Flash point	-80 °C		
Evaporation rate	No data available		
Auto-ignition temperature	No data available		
Upper/lower flammability or explosive limits	0.5 - 9.4 Vol-%		
Vapour pressure	No data available		
Vapour density	No data available		
Density	0.789 g/cm ³	20 °C	① DIN 51757
Bulk density	not applicable		
Water solubility	No data available		
Dynamic viscosity	No data available		
Kinematic viscosity	< 7 mm ² /s	40 °C	

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 hazardous reaction when handled and stored according to provisions.

10.2. Chemical stability

Stable under normal conditions.

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 discharge.

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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.

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

Toxicological information

Acute Toxicity Estimate for Mixtures	
ATE (oral): >2,000 mg/kg	
ATE (dermal): >2,000 mg/kg	
ATE (inhalation, vapour): >20 mg/L	
ATE (inhalation, dust/mist): >5 mg/L	
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics	CAS No.: 64742-48-9
EC No.: 927-241-2	
LD₅₀ oral: >5,000 mg/kg (Ratte)	
LD₅₀ dermal: >5,000 mg/kg (Kaninchen)	
LC₅₀ Acute inhalation toxicity (vapour): >4,951 mg/L 4 h (Ratte)	
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 (Rat)	
LD₅₀ dermal: >3,160 mg/kg (Rabbit)	
LC₅₀ Acute inhalation toxicity (vapour): >0.004951 mg/L 4 h (Rat) OECD 403	
LC₅₀ Acute inhalation toxicity (dust/mist): >4,951 mg/L	
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 (Rat)	
LD₅₀ dermal: >2,000 mg/kg (Rat) OECD 402	

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.
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.

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STOT-single exposure:

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

STOT-repeated exposure:

Repeated exposure may cause skin dryness or cracking.

Aspiration hazard:

May be fatal if swallowed and enters airways.

Additional information:

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

* 11.2. Information on other hazards

Endocrine disrupting properties:

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

SECTION 12: Ecological information

* 12.1. Toxicity

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 64742-48-9 EC No.: 927-241-2
LC₅₀: >1,000 mg/L 4 d (Oncorhynchus mykiss)
EC₅₀: >1,000 mg/L 2 d (crustaceans, Daphnia magna)
ErC₅₀: >1,000 mg/L 3 d (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) Calculation with the ECOSAR programme v1.00.
NOEC: 0.017 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
ErC₅₀: 19.37 mg/L 4 d (Algae/water plant, Algae) Calculation with the ECOSAR programme v1.00.
LOEC: 1,000 mg/L (Algae/water plant, Algae)
LOEC: 1,000 mg/L (Algae/water plant, Alge)
IC₅₀: 11.3 mg/L 3 d (Algae/water plant)
LOEC: 1,000 mg/L
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 918-481-9
LC₅₀: >1,000 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
LC₅₀: >1,000 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
EC₅₀: >1,000 mg/L 2 d (crustaceans, Daphnia magna)
ErC₅₀: >1,000 mg/L 4 d (Algae/water plant, Scenedesmus subspicatus)
LC₅₀: >1,000 mg/L 4 d (fish, Oncorhynchus mykiss) OECD 203
EC₅₀: >1,000 mg/L (crustaceans, Daphnia magna) OECD 202
butane CAS No.: 106-97-8 EC No.: 203-448-7
LC₅₀: 49.9 mg/L 4 d (fish)
LC₅₀: 49.9 mg/L 4 d (fish)
EC₅₀: 69.43 mg/L 2 d (crustaceans, Daphnia sp.) Calculation with the ECOSAR programme v1.00.
EC₅₀: 69.43 mg/L 2 d (crustaceans, Daphnia sp.)
ErC₅₀: 19.37 mg/L 4 d (Algae/water plant, Algae) Calculation using ECOSAR Program v1.00
ErC₅₀: 19.37 mg/L 4 d (Algae (not specified))

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Benzenesulphonic acids, di-C10-14-alkyl derivatives, calcium salts CAS No.: 1471316-72-9 EC No.: 939-603-7
LC₅₀: >100 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i>)
EC₅₀: >1,000 mg/L 2 d (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>)
ErC₅₀: >1,000 mg/L 3 d (crustaceans)
LC₅₀: >100 mg/L 4 d (<i>Oncorhynchus mykiss</i>)
EC₅₀: >1,000 mg/L 2 d (crustaceans, <i>Daphnia magna</i>) EPA OTS 797.1300
EC₅₀: >10,000 mg/L (Activated sludge (domestic)) OECD 209
ErC₅₀: >1,000 mg/L 3 d (<i>Pseudokirchneriella subcapitata</i>) EPA OTS 797.1050

* 12.2. Persistence and degradability

Isobutane (contains < 0.1% butadiene (203-450-8)) CAS No.: 75-28-5 EC No.: 200-857-2
Biodegradation: Yes, rapidly
propane CAS No.: 74-98-6 EC No.: 200-827-9
Biodegradation: Yes, rapidly
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 918-481-9
Biodegradation: Yes, rapidly
butane CAS No.: 106-97-8 EC No.: 203-448-7
Biodegradation: Yes, rapidly

Additional information:

There are no data available on the mixture itself. AOX (mg/L): 0

* 12.3. Bioaccumulative potential

propane CAS No.: 74-98-6 EC No.: 200-827-9
Log K_{OW}: 1.09
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 918-481-9
Log K_{OW}: 7.2
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 Species: Fish, not further specified.

12.4. Mobility in soil

No data available

* 12.5. Results of PBT and vPvB assessment

Isobutane (contains < 0.1% butadiene (203-450-8)) CAS No.: 75-28-5 EC No.: 200-857-2
Results of PBT and vPvB assessment: —
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclenes, <2% aromatics CAS No.: 64742-48-9 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: —

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

12.6. Endocrine disrupting properties

This product does not contain any substance that exhibits endocrine disrupting properties towards non-target organisms, as no ingredient fulfills the criteria.

* 12.7. Other adverse effects

water hazard class 1: slightly hazardous to water

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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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	 2.1	 2.1
14.4. Packing group			
		-	
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Special Provisions: 190 327 344 625 Limited quantity (LQ): 1L Excepted Quantities (EQ): E0 Classification code: 5F Tunnel restriction code: (D) Remark: Transport category: 2	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): 1000 mL Excepted Quantities (EQ): E0 EmS-No.: F-D, S-U	Special Provisions: A145 A167 A802 Limited quantity (LQ): 30 kg G 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

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SECTION 15: Regulatory information

* 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU legislation

Restrictions on use:

Use restriction according to REACH annex XVII, no.: Entry 3, Entry 40, Entry 75

Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] No information available.

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds No information available.

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Aerosol Directive (75/324/EEC)

Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive], Hazard categories:

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

Named dangerous substances:

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

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

1.2.	Relevant identified uses of the substance or mixture and uses advised against
1.3.	Details of the supplier of the safety data sheet
2.1.	Classification of the substance or mixture
2.3.	Other hazards
3.2.	Mixtures
5.4.	Additional information
7.2.	Conditions for safe storage, including any incompatibilities
8.1.	Control parameters
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
11.2.	Information on other hazards
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
12.7.	Other adverse effects
14.5.	Environmental hazards
14.6.	Special precautions for user
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
16.1.	Indication of changes
16.2.	Abbreviations and acronyms
16.4.	Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

* 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

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AOX	Adsorbable Organic halogen compounds
ATE	Acute Toxicity Estimate
AVV	Waste Shipment Ordinance (DE)
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EAK	European Waste Catalogue
EC ₅₀	Effective Concentration 50%
EG	European Community
EN	European Standard
ES	Exposure scenario
EU	European Union
EWC	European Waste Catalogue
IC ₅₀	Inhibition Concentration 50 %
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
ISO	International Standards Organisation
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
OECD	Organisation for Economic Cooperation and Development
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
SCL	Specific concentration limit
Tox.	Toxicity
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
aerosol dispensers and lighters (<i>Aerosol 1</i>)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	On basis of test data.
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	Calculation method.
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	Calculation method.

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.

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Hazard statements	
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.
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 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.

* Data changed compared with the previous version.