

SAFETY DATA SHEET

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

Revision date: 14 Jan 2025

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Food Lube Extreme Aerosol 400ml

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

1.1. Product identifier

Trade name/designation:

Food Lube Extreme Aerosol 400ml

Article No.:

T203002

UFI:

4AE2-U0MY-CWS1-UEMS

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
aerosol dispensers and lighters (<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.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	

2.2. Label elements

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

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark

Signal word: Danger

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Hazard components for labelling:

Hydrocarbons, C7-C9, iso-alkanes

Hazard statements for physical hazards

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

Hazard statements for health hazards

H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.

Hazard statements for environmental hazards

H412	Harmful to aquatic life with long lasting effects.
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Supplemental hazard information

EUH208	Contains Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts; Sulfonic acids, petroleum, sodium salts; Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts. May produce an allergic reaction.
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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.
P273	Avoid release to the environment.
P280	Wear protective gloves.

Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor if you feel unwell.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

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.

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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 Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger Acute Toxicity Estimate ATE (oral) > 15,000 mg/kg ATE (dermal) > 5,000 mg/kg ATE (inhalation, vapour) > 4,951 mg/L	50 - < 100 Vol-%
CAS No.: 64741-66-8 EC No.: 921-728-3 REACH No.: 01-2119471305-42	Hydrocarbons, C7-C9, iso-alkanes Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT SE 3 (H336), Skin Irrit. 2 (H315) Danger Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) 21 mg/L ATE (inhalation, dust/mist) > 9.4 mg/L	10 - < 20 Vol-%
CAS No.: 74-98-6 EC No.: 200-827-9 REACH No.: 01-2119486944-21	propane Flam. Gas 1A (H220), Press. Gas (Liq.) (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 Vol-%
CAS No.: 90622-57-4 EC No.: 918-167-1 REACH No.: 01-2119472146-39	Hydrocarbons, C11-C12, isoalkanes, <2% aromatics Asp. Tox. 1 (H304), Flam. Liq. 3 (H226) Danger Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) > 5,000 mg/kg ATE (inhalation, gases) > 5,000 ppmV ATE (inhalation, vapour) > 25 mg/L	5 - < 10 Vol-%
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 Acute Toxicity Estimate ATE (oral) > 2,000 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, gases) 658 ppmV ATE (inhalation, vapour) > 800,000 mg/L	1 - < 3 Vol-%
CAS No.: 61789-86-4 EC No.: 263-093-9 REACH No.: 01-2119488992-18	Sulfonic acids, petroleum, calcium salts Skin Sens. 1B (H317) Warning Specific concentration limit (SCL) Skin Sens. 1B; H317: C ≥ 10% Acute Toxicity Estimate ATE (oral) > 16,000 mg/kg ATE (dermal) > 5,000 mg/kg	0.1 - < 1 Vol-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 70024-69-0 EC No.: 274-263-7 REACH No.: 01-2119492616-28	Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts Skin Sens. 1B (H317) ⚠ Warning Specific concentration limit (SCL) Skin Sens. 1B; H317: 10% ≤ C < 100% Acute Toxicity Estimate ATE (oral) > 16,000 mg/kg ATE (dermal) > 4,000 mg/kg ATE (inhalation, dust/mist) > 5 mg/L	0.1 - < 1 Vol-%
CAS No.: 68584-23-6 EC No.: 271-529-4 REACH No.: 01-2119492627-25	Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts Skin Sens. 1B (H317) ⚠ Warning Specific concentration limit (SCL) Skin Sens. 1B; H317: 10% ≤ C < 100% Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) > 5,000 mg/kg ATE (inhalation, dust/mist) > 5 mg/L	0.1 - < 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:

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.

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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. 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

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.

Avoid contact with eyes and skin.

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.

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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)	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)	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)	Hydrocarbons, C11-C12, isoalkanes, <2% aromatics CAS No.: 90622-57-4 EC No.: 918-167-1	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, C11-C12, isoalkanes, <2% aromatics CAS No.: 90622-57-4 EC No.: 918-167-1	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)	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

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8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
Hydrocarbons, C7-C9, iso-alkanes CAS No.: 64741-66-8 EC No.: 921-728-3	2,035 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Hydrocarbons, C7-C9, iso-alkanes CAS No.: 64741-66-8 EC No.: 921-728-3	608 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Hydrocarbons, C7-C9, iso-alkanes CAS No.: 64741-66-8 EC No.: 921-728-3	773 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Hydrocarbons, C7-C9, iso-alkanes CAS No.: 64741-66-8 EC No.: 921-728-3	699 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Hydrocarbons, C7-C9, iso-alkanes CAS No.: 64741-66-8 EC No.: 921-728-3	699 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	11.75 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	2.9 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	3.33 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	1.667 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	1.03 mg/cm ²	① DNEL worker ② Long-term - dermal, local effects
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	0.513 mg/cm ²	① DNEL Consumer ② Long-term - dermal, local effects
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	0.833 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	11.75 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	2.9 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	3.33 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
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	1.667 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	1.03 mg/cm²	① DNEL worker ② Long-term - dermal, local effects
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	0.513 mg/cm²	① DNEL Consumer ② Long-term - dermal, local effects
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	0.833 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects
Substance name	PNEC Value	① PNEC type
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	1 mg/L	① PNEC aquatic, freshwater
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	1 mg/L	① PNEC aquatic, marine water
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	1,000 mg/L	① PNEC sewage treatment plant
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	226,000,000 mg/kg	① PNEC sediment, freshwater
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	226,000,000 mg/kg	① PNEC sediment, marine water
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	271,000,000 mg/kg	① PNEC soil
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	16.667 mg/kg	① PNEC secondary poisoning
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9	10 mg/L	① PNEC aquatic, intermittent release
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	1	① PNEC aquatic, freshwater
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	1	① PNEC aquatic, marine water

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Substance name	PNEC Value	① PNEC type
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	1,000	① PNEC sewage treatment plant
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	226,000,000	① PNEC sediment, freshwater
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	226,000,000	① PNEC sediment, marine water
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	271,000,000	① PNEC soil
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	10	① PNEC secondary poisoning
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7	16.667	① PNEC secondary poisoning

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

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.

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SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Form: Aerosol

Colour: brown

Odour: Mineral oil

flammability: No data available

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
Initial boiling point and boiling range	-40 °C		
Flash point	-80 °C		
Evaporation rate	No data available		
Upper/lower flammability or explosive limits	0.5 – 10.8 Vol-%		
Vapour pressure	No data available		
Density	0.744 g/cm ³	20 °C	① DIN 51757
Water solubility	practically insoluble		

9.2. Other information

The data refer to the technical active substance: relative density, colour, odour, viscosity, pH-value.
No further relevant information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

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.

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

isobutane CAS No.: 75-28-5 EC No.: 200-857-2
LD₅₀ oral: >15,000 mg/kg
LD₅₀ dermal: >5,000 mg/kg
LC₅₀ Acute inhalation toxicity (vapour): >4,951 mg/L

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Hydrocarbons, C7-C9, iso-alkanes CAS No.: 64741-66-8 EC No.: 921-728-3

ATE (inhalation, vapour): 21 mg/L

LD₅₀ oral: >5,000 mg/kg (Rat)

LD₅₀ dermal: >2,000 mg/kg (Rabbit)

LC₅₀ Acute inhalation toxicity (vapour): >21 mg/L (Rat) OECD 403

LC₅₀ Acute inhalation toxicity (dust/mist): >9.4 mg/L

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, C11-C12, isoalkanes, <2% aromatics CAS No.: 90622-57-4 EC No.: 918-167-1

LD₅₀ oral: >5,000 mg/kg (Rat) OECD 401

LD₅₀ dermal: >5,000 mg/kg (Rabbit) OECD 402

LC₅₀ Acute inhalation toxicity (gas): >5,000 ppmV 4 h (Rat)

LC₅₀ Acute inhalation toxicity (vapour): >25 mg/L (Rat)

butane CAS No.: 106-97-8 EC No.: 203-448-7

LD₅₀ oral: >2,000 mg/kg

LD₅₀ dermal: >2,000 mg/kg

LC₅₀ Acute inhalation toxicity (gas): 658 ppmV (Rat)

LC₅₀ Acute inhalation toxicity (vapour): >800,000 mg/L (Rat)

Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9

LD₅₀ oral: >16,000 mg/kg (Rat)

LD₅₀ dermal: >5,000 mg/kg (Rabbit) OECD 402

Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7

LD₅₀ oral: >16,000 mg/kg (Rat) other: Section 772.112-21 CFR 40

LD₅₀ dermal: >4,000 mg/kg (Rabbit) other: 40 CFR, Section 163.81-2, Federal

LC₅₀ Acute inhalation toxicity (dust/mist): >5 mg/L (Rat)

Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts CAS No.: 68584-23-6 EC No.: 271-529-4

LD₅₀ oral: >5,000 mg/kg (Rat)

LD₅₀ dermal: >5,000 mg/kg (Rat)

LC₅₀ Acute inhalation toxicity (dust/mist): >5 mg/L (Rat)

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

Causes skin irritation.

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

May cause allergic reactions. (Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts; Sulfonic acids, petroleum, sodium salts; Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts)

Germ cell mutagenicity:

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

Carcinogenicity:

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

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Reproductive toxicity:

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

STOT-single exposure:

May cause drowsiness or dizziness. (Hydrocarbons, C7-C9, n-alkanes, isoalkanes, cyclics)

STOT-repeated exposure:

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

Aspiration hazard:

May be fatal if swallowed and enters airways.

Additional information:

No data available

11.2. Information on other hazards

Endocrine disrupting properties:

None of the ingredients are included.

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, Fish, no other information)
LC ₅₀ : 100 mg/L 4 d (fish, Danio rerio)
LC ₅₀ : 91.42 mg/L 4 d (fish) The Ecosar class program has been develope
EC ₅₀ : 69.43 mg/L 2 d (crustaceans, Daphnia sp.)
EC ₅₀ : 1,000 mg/L 2 d (fish, Daphnia magna)
EC ₅₀ : 69.43 mg/L 2 d (crustaceans, Daphnia) Calculation using ECOSAR Program v1.00.
ErC ₅₀ : 19.37 mg/L 4 d (Algae/water plant, Algae)
ErC ₅₀ : 19.37 mg/L 4 d (Algae/water plant) Calculation using ECOSAR Program v1.00.
Hydrocarbons, C7-C9, iso-alkanes CAS No.: 64741-66-8 EC No.: 921-728-3
NOEC: 0.17 mg/L (Algae/water plant, Daphnia magna)
LOEC: 0.32 mg/L (Algae/water plant, Daphnia magna)
LC ₅₀ : 1,000 mg/L 4 d (fish, Oncorhynchus mykiss)
ErC ₅₀ : 1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
EC ₅₀ : 1,000 mg/L 2 d (crustaceans, Daphnia magna)
propane CAS No.: 74-98-6 EC No.: 200-827-9
LC ₅₀ : 9,640 mg/L 4 d (fish, Pimephales promelas)
LC ₅₀ : 0.41 mg/L 4 d (fish, Oncorhynchus mykiss)
LC ₅₀ : 49.9 mg/L 4 d (fish) The Ecosar class program has been develope
EC ₅₀ : >100 mg/L (Algae/water plant, Bacteria)
EC ₅₀ : 0.17 mg/L 3 d (Algae/water plant, Selenastrum capricornutum)
EC ₅₀ : 69.43 mg/L 2 d (crustaceans, Daphnia) Calculation using ECOSAR Program v1.00.
NOEC: 0.017 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
ErC ₅₀ : 19.37 mg/L 4 d (Algae/water plant, Algae) Calculation using ECOSAR Program v1.00.
LOEC: 1,000 mg/L (Algae/water plant, Algae)
LOEC: 1,000 mg/L (Algae/water plant, Alge)
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics CAS No.: 90622-57-4 EC No.: 918-167-1
NOEC: >1 mg/L 21 d (crustaceans, Daphnia magna)
ErC ₅₀ : >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201
NOEC: 0.209 mg/L 28 d (fish, Oncorhynchus mykiss) OECD 211

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butane CAS No.: 106-97-8 EC No.: 203-448-7
LC₅₀ : 49.9 mg/L 4 d (fish)
LC₅₀ : 24.11 mg/L (fish)
EC₅₀ : 69.43 mg/L 2 d (crustaceans, Daphnia sp.)
EC₅₀ : 7.71 mg/L 4 d (Algae/water plant)
ErC₅₀ : 19.37 mg/L 4 d (Algae/water plant)
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9
ErC₅₀ : >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) EPA OTS 797.1050
EC₅₀ : >1,000 mg/L 2 d (crustaceans, Daphnia magna) EPA OTS 797.1300
EC₅₀ : >10,000 mg/L (Activated sludge of a predominantly domestic sewage) OECD 209
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7
LC₅₀ : >10,000 mg/L 4 d (fish, Cyprinus carpio) EPA OTS 797.1050
ErC₅₀ : >1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) EPA OTS 797.1300
EC₅₀ : >1,000 mg/L 2 d (crustaceans, Daphnia magna) OECD 209
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts CAS No.: 68584-23-6 EC No.: 271-529-4
LC₅₀ : >10,000 mg/L 4 d (fish, Oncorhynchus mykiss)
ErC₅₀ : >1,000 mg/L 4 d (Algae/water plant, Scenedesmus subspicatus)
EC₅₀ : >1,000 mg/L 2 d (crustaceans, Daphnia magna)

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

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

isobutane CAS No.: 75-28-5 EC No.: 200-857-2
Log K_{OW} : 1.09
propane CAS No.: 74-98-6 EC No.: 200-827-9
Log K_{OW} : 1.09
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics CAS No.: 90622-57-4 EC No.: 918-167-1
Bioconcentration factor (BCF): 144.3 Species: calculated
butane CAS No.: 106-97-8 EC No.: 203-448-7
Log K_{OW} : 1.09
Sulfonic acids, petroleum, calcium salts CAS No.: 61789-86-4 EC No.: 263-093-9
Log K_{OW} : > 4.46
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts CAS No.: 70024-69-0 EC No.: 274-263-7
Log K_{OW} : 18.05

Accumulation / Evaluation:

No further relevant information available.

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: —

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Hydrocarbons, C7-C9, iso-alkanes	CAS No.: 64741-66-8	EC No.: 921-728-3
Results of PBT and vPvB assessment: —		
propane	CAS No.: 74-98-6	EC No.: 200-827-9
Results of PBT and vPvB assessment: —		
Hydrocarbons, C11-C12, isoalkanes, <2% aromatics	CAS No.: 90622-57-4	EC No.: 918-167-1
Results of PBT and vPvB assessment: —		
butane	CAS No.: 106-97-8	EC No.: 203-448-7
Results of PBT and vPvB assessment: —		
Sulfonic acids, petroleum, calcium salts	CAS No.: 61789-86-4	EC No.: 263-093-9
Results of PBT and vPvB assessment: —		
Benzenesulfonic acid, mono-C16-24-alkyl derivs., calcium salts	CAS No.: 70024-69-0	EC No.: 274-263-7
Results of PBT and vPvB assessment: —		
Benzenesulfonic acid, C10-16-alkyl derivs., calcium salts	CAS No.: 68584-23-6	EC No.: 271-529-4
Results of PBT and vPvB assessment: —		

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

12.6. Endocrine disrupting properties

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 further relevant information available.

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

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)
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			
		-	

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Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
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) Remark: Caution: Flammable gases!	Special Provisions: 190 327 344 625 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E0 Classification code: 5F Remark: Caution: Flammable gases!	Special Provisions: 63 190 277 327 344 381 959 Limited quantity (LQ): 1000 mL Excepted Quantities (EQ): E0 EmS-No.: F-D, S-U Remark: Caution: Flammable gases!	Special Provisions: A145 A167 A802 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 Caution: Flammable gases!

14.7. Maritime transport in bulk according to IMO instruments
not applicable

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

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

Restrictions on use:

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

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

3.2.	Mixtures
8.1.	Control parameters
9.1.	Information on basic physical and chemical properties
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
12.1.	Toxicity
14.3.	Transport hazard class(es)
16.1.	Indication of changes
16.2.	Abbreviations and acronyms

* 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

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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
DIN	German Institute for Standardization / German Industrial Standard
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
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
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.	
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	
Skin corrosion/irritation (<i>Skin Irrit. 2</i>)	H315: Causes skin irritation.	
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	
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.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.

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Hazard statements	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H411	Toxic 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.