

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

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Mabanol Silikonspray

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

1.1. Product identifier

Trade name/designation:

Mabanol Silikonspray

Other means of identification:

Mabanol Silicone Spray

UFI:

C156-16V0-JD7K-S6VM

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture:

Lubricants, greases, release products

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

Mabanol GmbH & Co. KG

Koreastraße 7

20457 Hamburg

Germany

Telephone: 0049 (0) 40 36809988

E-mail: info@mabanol.com

Website: www.mabanol.com

1.4. Emergency telephone number

Giftinformationszentrale Göttingen , 24h: 0049 (0) 551 1 92 40

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.	
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

Hazard components for labelling:

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane; Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics; Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics; propan-2-ol

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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 (R)-p-mentha-1,8-diene. May produce an allergic reaction.
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Precautionary statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.

Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements Response

P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER/doctor/... if you feel unwell.
P332 + P313	If skin irritation 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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Precautionary statements Disposal

P501	Dispose of contents/container to Dispose of waste according to applicable legislation..
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Additional information:

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

2.3. Other hazards

Other adverse effects:

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

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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 REACH No.: 01-2119485395-27	isobutane Flam. Gas 1A (H220), Press. Gas (Liq.) (H280) Danger	25 - < 50 Vol-%
CAS No.: 106-97-8 EC No.: 203-448-7 REACH No.: 01-2119474691-32	butane Flam. Gas 1 (H220), Press. Gas (Liq.) (H280) Danger	25 - < 50 Vol-%
CAS No.: 64742-49-0 EC No.: 921-024-6 REACH No.: 01-2119475514-35	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT SE 3 (H336), Skin Irrit. 2 (H315) Danger	10 - < 20 Vol-%
CAS No.: 64742-49-0 EC No.: 927-510-4 REACH No.: 01-2119475515-33	Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 2 (H225), STOT SE 3 (H336), Skin Irrit. 2 (H315) Danger	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	3 - < 5 Vol-%
CAS No.: 64742-48-9 EC No.: 927-241-2 REACH No.: 01-2119471843-32	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics Aquatic Chronic 3 (H412), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), STOT SE 3 (H336) Danger	1 - < 3 Vol-%
CAS No.: 67-63-0 EC No.: 200-661-7 REACH No.: 01-2119457558-25	propan-2-ol Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336) Danger	1 - < 3 Vol-%
CAS No.: 5989-27-5 EC No.: 227-813-5 REACH No.: 01-2119529223-47	(R)-p-mentha-1,8-diene Aquatic Acute 1 (H400), Aquatic Chronic 1 (H410), Flam. Liq. 3 (H226), Skin Irrit. 2 (H315), Skin Sens. 1 (H317) Warning	< 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:

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.

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After eye contact:

Rinse cautiously 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!

* 4.2. Most important symptoms and effects, both acute and delayed

Headache. Nausea. Dizziness. Causes skin irritation. May cause drowsiness or dizziness.

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

Hazardous combustion products:

In case of fire: Gases/vapours, toxic.

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide. aldehydes. carbon black.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Do not inhale explosion and combustion gases. Move undamaged containers from immediate hazard area if it can be done safely.

* 5.4. Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Use water spray jet to protect personnel and to cool endangered containers. Move undamaged containers from immediate hazard area if it can be done safely. 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:

Personal protection equipment: see section 8.

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 cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated articles and floor according to the environmental legislation.

6.4. Reference to other sections

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:

Do not pierce or burn, even after use. If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Fire prevent measures:

Do not spray on naked flames or any incandescent material. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

Advices on general occupational hygiene

Draw up and observe skin protection programme. When using do not eat, drink or smoke. Avoid contact with eyes and skin. Wash hands before breaks and after work. Apply skin care products after work. Do not put any product-impregnated cleaning rags into your trouser pockets. Used working clothes should not be worn outside the work area. Wash contaminated clothing before reuse.

* 7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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:

Temperature control required. Protect against: UV-radiation/sunlight . Heat. Frost.

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
TRGS 900 (DE)	isobutane CAS No.: 75-28-5 EC No.: 200-857-2	① 1,000 ppm (2,400 mg/m ³) ② 4,000 ppm (9,600 mg/m ³)
TRGS 900 (DE)	butane CAS No.: 106-97-8 EC No.: 203-448-7	① 1,000 ppm (2,400 mg/m ³) ② 4,000 ppm (9,600 mg/m ³)
TRGS 900 (DE)	Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS No.: 64742-49-0 EC No.: 921-024-6	① 700 mg/m ³ ② 1,400 mg/m ³ ⑤ (C6-C8 Aliphaten)
TRGS 900 (DE)	Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics CAS No.: 64742-49-0 EC No.: 927-510-4	① 700 mg/m ³ ② 1,400 mg/m ³ ⑤ (C6-C8 Aliphaten)
TRGS 900 (DE)	propane CAS No.: 74-98-6 EC No.: 200-827-9	① 1,000 ppm (1,800 mg/m ³) ② 4,000 ppm (7,200 mg/m ³)

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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
TRGS 900 (DE)	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 927-241-2	① 300 mg/m ³ ② 600 mg/m ³ ⑤ (C9-C14 Aliphaten)
DFG (DE)	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 927-241-2	① 50 ppm (300 mg/m ³) ② 100 ppm (600 mg/m ³)
TRGS 900 (DE)	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	① 200 ppm (500 mg/m ³) ② 400 ppm (1,000 mg/m ³)
TRGS 900 (DE)	(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	① 5 ppm (28 mg/m ³) ② 20 ppm (112 mg/m ³) ⑤ (kann über die Haut aufgenommen werden)

8.1.2. Biological limit values

Limit value type (country of origin)	Substance name	Limit value	① parameter ② Test material ③ Time of sampling ④ Remark
TRGS 903 (DE)	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	25 mg/L	① Aceton ② Blut ③ Expositionsende bzw. Schichtende
TRGS 903 (DE)	propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	25 mg/L	① Aceton ② Urin ③ Expositionsende bzw. Schichtende

8.1.3. DNEL-/PNEC-values

No data available

* 8.2. Exposure controls

8.2.1. Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/vapour/aerosol.

8.2.2. Personal protection equipment

Eye/face protection:

Eye glasses with side protection (EN 166).

Skin protection:

Tested protective gloves must be worn (EN ISO 374). Suitable material: NBR (Nitrile rubber).

Breakthrough time::480 min. Thickness of the glove material: 0,45 mm.

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Wear suitable protective clothing.

Respiratory protection:

Wear breathing apparatus if exposed to vapours/dusts/aerosols. Respiratory protection necessary at: exceeding exposure limit values. Suitable respiratory protection apparatus: Combination filtering device. Filtering device with filter or ventilator filtering device of type: AX.

Observe the wear time limits as specified by the manufacturer.

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8.2.3. Environmental exposure controls

No data available

SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Physical state: Aerosol

Colour: colourless

Odour: Lemon

Safety relevant basis data

parameter		at °C	Method	Remark
pH	<i>not determined</i>			
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	-40 °C			
Decomposition temperature	<i>not determined</i>			
Flash point	< 0 °C			
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	> 200 °C			
Upper/lower flammability or explosive limits	1 - 11 Vol-%			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	0.748 g/cm ³	20 °C	DIN 51757	Data apply to the technically active substance. pressure: 3,6 bar.
Relative density	<i>not determined</i>			
Bulk density	<i>not determined</i>			
Water solubility	The study does not need to be conducted because the substance is known to be insoluble in water.			
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>			

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

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 heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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

In case of fire may be liberated: Carbon monoxide. Carbon dioxide (CO₂). aldehydes. carbon black. Gases/vapours, toxic.

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

Substance name	Toxicological information
butane CAS No.: 106-97-8 EC No.: 203-448-7	LC₅₀ Acute inhalation toxicity (gas): 658 ppmV 4 h (Rat)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS No.: 64742-49-0 EC No.: 921-024-6	LD₅₀ oral: >5,000 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rabbit) LC₅₀ Acute inhalation toxicity (vapour): >23.3 mg/l 4 h (Rat)
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics CAS No.: 64742-49-0 EC No.: 927-510-4	LD₅₀ oral: 5,500 mg/kg (Rat) LD₅₀ dermal: 2,770 mg/kg (Rat) LC₅₀ Acute inhalation toxicity (vapour): 23.3 mg/l 4 h (Rat)
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 927-241-2	LD₅₀ oral: >5,000 mg/kg (Rat) LD₅₀ dermal: >5,000 mg/kg (Rabbit) LC₅₀ Acute inhalation toxicity (vapour): >4,951 mg/l 4 h (Rat)
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	LD₅₀ oral: 5,338 mg/kg (Rat) LD₅₀ dermal: 12,870 mg/kg (Rabbit)
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	LD₅₀ oral: >2,000 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rabbit)

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:

Serious eye damage/eye irritation.

Respiratory or skin sensitisation:

May cause sensitisation especially in sensitive humans.

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Germ cell mutagenicity:

Based on available data, the classification criteria are not met.
No indications of human germ cell mutagenicity exist.

Carcinogenicity:

Based on available data, the classification criteria are not met.
No indication of human carcinogenicity.

Reproductive toxicity:

Based on available data, the classification criteria are not met.
No indications of human reproductive toxicity exist.

STOT-single exposure:

May cause drowsiness or dizziness. (Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane; Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics).

STOT-repeated exposure:

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

Aspiration hazard:

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

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:

No information available.

SECTION 12: Ecological information

* 12.1. Toxicity

Substance name	Toxicological information
butane CAS No.: 106-97-8 EC No.: 203-448-7	LC₅₀ : 49.9 mg/l 4 d (fish) ErC₅₀ : 19.37 mg/l 4 d (Algae/water plant) EC₅₀ : 69.43 mg/l 2 d (crustaceans)
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS No.: 64742-49-0 EC No.: 921-024-6	LC₅₀ : >1 - 10 mg/l 4 d (fish, Pimephales promelas (fath ead minnow)) ErC₅₀ : >10 - 100 mg/l 3 d (Algae/water plant, Pseudoki rchneriella subcapitata) EC₅₀ : >1 - 10 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics CAS No.: 64742-49-0 EC No.: 927-510-4	LC₅₀ : >1 - 10 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) ErC₅₀ : >10 - 100 mg/l 3 d (Algae/water plant) EC₅₀ : >1 - 10 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))
propane CAS No.: 74-98-6 EC No.: 200-827-9	LC₅₀ : 49.9 mg/l 4 d (fish) ErC₅₀ : 19.4 mg/l 4 d (Algae/water plant) EC₅₀ : 69.4 mg/l 2 d (crustaceans)
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics CAS No.: 64742-48-9 EC No.: 927-241-2	LC₅₀ : >1,000 mg/l 4 d (fish, Oncorhynchus mykiss (Rainbow trout)) ErC₅₀ : >1,000 mg/l 3 d (Algae/water plant, Pseudokirchneriella subcapitata) EC₅₀ : >1,000 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))

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Substance name	Toxicological information
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	LC₅₀: 9,640 mg/l 4 d (fish, Pimephales promelas (fathead minnow)) ErC₅₀: >1,000 mg/l 3 d (Algae/water plant, Desmodemus subspicatus) EC₅₀: 13,299 mg/l 2 d (crustaceans, Daphnia magna (Big water flea))
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	LC₅₀: 0.72 mg/l 4 d (fish, Pimephales promelas (fathead minnow)) ErC₅₀: 0.32 mg/l 3 d (Algae/water plant, Pseudokirchneriella subcapitata) EC₅₀: 0.307 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) NOEC: 0.08 mg/l 21 d (crustaceans, Daphnia magna (Big water flea))

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

* 12.2. Persistence and degradability

Substance name	Biodegradation	Remark
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS No.: 64742-49-0 EC No.: 921-024-6	—	Readily biodegradable (according to OECD criteria).
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	—	Readily biodegradable (according to OECD criteria).

Additional information:

The product has not been tested.

* 12.3. Bioaccumulative potential

Substance name	Log K _{ow}	Bioconcentration factor (BCF)
isobutane CAS No.: 75-28-5 EC No.: 200-857-2	1.09	
butane CAS No.: 106-97-8 EC No.: 203-448-7	1.09	
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS No.: 64742-49-0 EC No.: 921-024-6	3.4	
propane CAS No.: 74-98-6 EC No.: 200-827-9	1.09	
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	0.05	
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	4.38	

Accumulation / Evaluation:

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

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* 12.5. Results of PBT and vPvB assessment

Substance name	Results of PBT and vPvB assessment
isobutane CAS No.: 75-28-5 EC No.: 200-857-2	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
butane CAS No.: 106-97-8 EC No.: 203-448-7	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane CAS No.: 64742-49-0 EC No.: 921-024-6	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics CAS No.: 64742-49-0 EC No.: 927-510-4	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
propane CAS No.: 74-98-6 EC No.: 200-827-9	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 927-241-2	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
propan-2-ol CAS No.: 67-63-0 EC No.: 200-661-7	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.
(R)-p-mentha-1,8-diene CAS No.: 5989-27-5 EC No.: 227-813-5	This substance does not meet the PBT/vPvB criteria of REACH, Annex XIII.

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

* 12.6. Endocrine disrupting properties

No information available.

* 12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Appropriate disposal / Package:

Handle contaminated packages in the same way as the substance itself.

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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
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): 1 L Excepted Quantities (EQ): E0 Hazard identification number (Kemler No.): Classification code: 5F tunnel restriction code: (D) Remark: Warning: Flammable gases.	Special provisions: 190, 327, 344, 625 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E0 Classification code: 5F Remark: Warning: 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: Warning: Flammable gases.	Special provisions: A145, A167, A802 Excepted Quantities (EQ): E0 Remark: Warning: 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

Restrictions on use:

Use restriction according to REACH annex XVII, no.:

28: butane; isobutane; Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics.

29: Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane; Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclics.

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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

To follow: Aerosol directive (75/324/EEC).

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.

Observe in addition any national regulations!

15.1.2. National regulations

[DE] National regulations

Restrictions of occupation

To follow: §22 JArbSchG.

Störfallverordnung

for substances possibly developing during an incident:

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

Technische Anleitung Luft (TA-Luft)

Klasse 1:

5.2.5: organic substances, to be indicated as total carbon at $m \geq 0.50$ kg/h: conc. 50 mg/m^3

Anteil 1:

28.11 %

Water hazard class

WGK:

2 - deutlich wassergefährdend

Remark:

Self-classification (mixture; calculation rule).

* 15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

* 16.1. Indication of changes

1.1.	Product identifier
2.2.	Label elements
3.2.	Mixtures
4.2.	Most important symptoms and effects, both acute and delayed
5.4.	Additional information
6.3.	Methods and material for containment and cleaning up
7.1.	Precautions for safe handling
7.2.	Conditions for safe storage, including any incompatibilities
8.1.	Control parameters
8.2.	Exposure controls
9.1.	Information on basic physical and chemical properties
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

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12.5.	Results of PBT and vPvB assessment
12.6.	Endocrine disrupting properties
12.7.	Other adverse effects
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture
15.2.	Chemical Safety Assessment
16.1.	Indication of changes
16.5.	Relevant R-, H- and EUH-phrases (Number and full text)

16.2. Abbreviations and acronyms

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: Accord européen sur le transport des marchandises dangereuses par Route (International Carriage of Dangerous Goods by Road)

AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen

CAS Chemical Abstracts Service

DNEL: Derived No Effect Level

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

LOAEL: Lowest observed adverse effect level

LOAEC: Lowest observed adverse effect concentration

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

NIOSH: National Institute of Occupational Safety and Health

NOAEL: No observed adverse effect level

NOAEC: No observed adverse effect level

NTP: National Toxicology Program

N/A: not applicable

OEL: Occupational Exposure limit (Arbeitsplatzgrenzwert)

OSHA: Occupational Safety and Health Administration

PEL: permissible exposure limit (Zulässiger Expositionsgrenzwert)

PBT: persistent bioaccumulative toxic

PNEC: predicted no effect concentration

REL: Recommended exposure limit (Empfohlene Expositionsgrenze)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

SARA: Superfund Amendments and Reauthorization Act

STEL: Short Term Exposure Limit (Kurzzeitgrenzwert) (15 min)

SVHC: substance of very high concern

TLV: Threshold Limit Values (Schwellwert Grenzwerte)

TRGS Technische Regeln für Gefahrstoffe

TSCA: Toxic Substances Control Act

TWA: Time Weighted Average (Zeitlich gewichteter Mittelwert) (8 h)

VOC: Volatile Organic Compounds

vPvB: very persistent and very bioaccumulative

VwVwS: Verwaltungsvorschrift wassergefährdender Stoffe

WGK: Wassergefährdungsklasse

16.3. Key literature references and sources for data

No data available

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16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

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

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.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

* Data changed compared with the previous version