

SAFETY DATA SHEET

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

Revision date: 13 Jan 2025

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Bitu Seal Spray 500ml

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

1.1. Product identifier

Trade name/designation:

Bitu Seal Spray 500ml

Article No.:

T307002

UFI:

NS5K-YH MJ-SG6F-995J

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

Use of the substance/mixture:

Aerosol coating

Aerosol coating, Surface protection

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
Hazardous to the aquatic environment (<i>Aquatic Chronic 2</i>)	H411: Toxic to aquatic life with long lasting effects.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	
aerosol dispensers and lighters (<i>Aerosol 1</i>)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	

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2.2. Label elements

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

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark



GHS09
Environment

Signal word: Danger

Hazard components for labelling:

Hydrocarbons, C9, aromatics; Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics;
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane; Butanone

Hazard statements for physical hazards

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

Hazard statements for health hazards

H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

Hazard statements for environmental hazards

H411	Toxic to aquatic life with long lasting effects.
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Supplemental hazard information

EUH066	Repeated exposure may cause skin dryness or cracking.
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Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe 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 and eye protection/face protection.

Precautionary statements Response

P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER if you feel unwell.

Precautionary statements Storage

P403	Store in a well-ventilated place.
P410 + P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Precautionary statements Disposal

P501	Dispose of contents/container to an appropriate recycling or disposal facility.
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Additional information:

Formation of explosive mixtures possible without adequate ventilation.

2.3. Other hazards

Other adverse effects:

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

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SECTION 3: Composition/information on ingredients

* 3.2. Mixtures

Description:

Active ingredient mixture with propellant gas

Additional information:

Aerosols and containers fitted with a solid nebuliser containing substances or mixtures classified as hazardous by aspiration must not be labelled for this hazard.

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 128601-23-0 EC No.: 918-668-5 REACH No.: 01-2119455851-35	Hydrocarbons, C9, aromatics Aquatic Chronic 2 (H411), Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), STOT SE 3 (H335, H336)  Danger Acute Toxicity Estimate ATE (oral) 3,492 mg/kg ATE (dermal) > 3,160 mg/kg ATE (inhalation, gases) > 6,193 ppmV	10 - < 25 Vol-%
CAS No.: 8052-42-4 EC No.: 232-490-9 REACH No.: 01-2119480172-44	Asphalt The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	10 - < 25 Vol-%
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	10 - < 25 Vol-%
CAS No.: 64742-48-9 EC No.: 918-481-9 REACH No.: 01-2119463258-33	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), STOT SE 3 (H336)  Danger Acute Toxicity Estimate ATE (oral) > 8,000 mg/kg ATE (dermal) > 3,160 mg/kg ATE (inhalation, dust/mist) > 4,951 mg/L	10 - < 25 Vol-%
CAS No.: 78-93-3 EC No.: 201-159-0 Index No.: 606-002-00-3 REACH No.: 01-2119457290-43	Butanone Eye Irrit. 2 (H319), Flam. Liq. 2 (H225), STOT SE 3 (H336)  Danger EUH066 Acute Toxicity Estimate ATE (oral) > 2,193 mg/kg ATE (dermal) > 5,000 mg/kg ATE (inhalation, dust/mist) 34 mg/L	2.5 - < 10 Vol-%
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 Acute Toxicity Estimate ATE (oral) > 5,000 mg/kg ATE (dermal) > 2,920 mg/kg ATE (inhalation, gases) > 20 ppmV ATE (inhalation, vapour) > 25.2 mg/L	2.5 - < 10 Vol-%

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Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0 REACH No.: 01-2119474691-32	butane Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger Acute Toxicity Estimate ATE (oral) $\geq 5,000$ mg/kg ATE (dermal) $\geq 5,000$ mg/kg ATE (inhalation, gases) 658 ppmV ATE (inhalation, vapour) ≥ 50 mg/L	2.5 - < 10 Vol-%
CAS No.: 75-28-5 EC No.: 200-857-2 REACH No.: 01-2119485395-27	Isobutane Flam. Gas 1A (H220), Press. Gas (Comp.) (H280) Danger Acute Toxicity Estimate ATE (inhalation, vapour) 1,237 mg/L	1 - < 2.5 Vol-%
CAS No.: 64-17-5 EC No.: 200-578-6 Index No.: 603-002-00-5 REACH No.: 01-2119457610-43-XXXX	ethanol Flam. Liq. 2 (H225) Danger Specific concentration limit (SCL) Eye Irrit. 2; H319: C $\geq 50\%$ Acute Toxicity Estimate ATE (oral) 10,470 mg/kg ATE (dermal) > 2,000 mg/kg ATE (inhalation, vapour) > 20 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

Following inhalation:

Fresh air supply, consult a doctor in case of complaints.

In case of skin contact:

In general, the product is not irritating to skin.

After eye contact:

Rinse opened eye for several minutes under running water. Consult a doctor if symptoms persist

Following ingestion:

Do not induce vomiting, seek medical help immediately.

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

No further relevant information available.

4.3. Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water mist, Extinguishing powder, Carbon dioxide, alcohol resistant foam

Unsuitable extinguishing media:

Water in full jet

5.2. Special hazards arising from the substance or mixture

No further relevant information available.

5.3. Advice for firefighters

Special protective equipment: Put on breathing apparatus.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Wear protective equipment. Keep unprotected persons away.

6.1.2. For emergency responders

No data available

6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of spillage into water or sewage system, inform the competent authorities.

6.3. Methods and material for containment and cleaning up

Other information:

Provide adequate ventilation. Do not wash away with water or aqueous detergents.

6.4. Reference to other sections

See section 7 for further information on safe handling.

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:

Ensure good ventilation/extraction at the workplace.

Fire prevent measures:

Do not spray on naked flames or any incandescent material. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Container is under pressure. Protect from sunlight and temperatures above 50°C (e.g. from incandescent lamps). Do not open by force or burn even after use.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels:

Store in a cool place. The official regulations for the storage of pressurised gas packages must be observed.

Hints on storage assembly:

The official regulations for the storage of pressurised gas packages must be observed.

Storage class (TRGS 510, Germany): 2B – Aerosol dispensers and lighters

Further information on storage conditions:

Store in a cool, dry place in well-sealed containers. Protect from heat and direct sunlight.

7.3. Specific end use(s)

Recommendation:

No further relevant information available.

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SECTION 8: Exposure controls/personal protection

* 8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	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, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 918-481-9	① 200 mL/m ³ ② 400 mL/m ³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von weniger als 1 %, an n-Hexan von weniger als 5 % und an Cyclo-/ Isohexanen von weniger als 25 %)
MAK (AT)	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 918-481-9	① 170 mL/m ³ ② 340 mL/m ³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von weniger als 1 %, an n-Hexan von weniger als 5 % und an Cyclo-/ Isohexanen von 25 % oder mehr)
MAK (AT)	Butanone CAS No.: 78-93-3 EC No.: 201-159-0	① 100 ppm (295 mg/m ³) ⑤ (kann über die Haut aufgenommen werden) H
MAK (AT)	Butanone CAS No.: 78-93-3 EC No.: 201-159-0	② 200 ppm (590 mg/m ³) ⑤ (max. 4x30 min./Schicht, kann über die Haut aufgenommen werden) H
IOELV (EU)	Butanone CAS No.: 78-93-3 EC No.: 201-159-0	① 200 ppm (600 mg/m ³) ② 300 ppm (900 mg/m ³)
MAK (AT)	butane CAS No.: 106-97-8 EC No.: 203-448-7	① 800 ppm (1,900 mg/m ³)
MAK (AT)	butane CAS No.: 106-97-8 EC No.: 203-448-7	② 1,600 ppm (3,800 mg/m ³) ⑤ (max. 3x60 min./Schicht, Momentanwert)
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)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m ³)
MAK (AT)	ethanol CAS No.: 64-17-5 EC No.: 200-578-6	② 2,000 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, C9, aromatics CAS No.: 128601-23-0 EC No.: 918-668-5	100 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Hydrocarbons, C9, aromatics CAS No.: 128601-23-0 EC No.: 918-668-5	32 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Hydrocarbons, C9, aromatics CAS No.: 128601-23-0 EC No.: 918-668-5	25 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
Hydrocarbons, C9, aromatics CAS No.: 128601-23-0 EC No.: 918-668-5	11 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
Hydrocarbons, C9, aromatics CAS No.: 128601-23-0 EC No.: 918-668-5	11 mg/kg bw/ day	① DNEL Consumer ② Long-term - oral, systemic effects
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 918-481-9	871 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 918-481-9	185 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 918-481-9	208 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 918-481-9	125 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 918-481-9	125 mg/kg bw/ day	① DNEL Consumer ② Long-term - oral, systemic effects
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	600 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	106 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	1,161 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	412 mg/kg bw/ day	① DNEL Consumer ② Long-term - dermal, systemic effects
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	31 mg/kg bw/ day	① DNEL Consumer ② Long-term - oral, systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane EC No.: 921-024-6	2,035 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane EC No.: 921-024-6	608 mg/m ³	① DNEL Consumer ② Long-term - inhalation, systemic effects

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Substance name	DNEL value	① DNEL type ② Exposure route
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane EC No.: 921-024-6	773 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane EC No.: 921-024-6	300 mg/kg bw/day	① DNEL worker ② Long-term - dermal, systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane EC No.: 921-024-6	699 mg/kg bw/day	① DNEL Consumer ② Long-term - dermal, systemic effects
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane EC No.: 921-024-6	699 mg/kg bw/day	① DNEL Consumer ② Long-term - oral, systemic effects

Substance name	PNEC Value	① PNEC type
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	55.8 mg/L	① PNEC aquatic, freshwater
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	55.8 mg/L	① PNEC aquatic, marine water
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	284.7 mg/kg	① PNEC sediment, freshwater
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	709 mg/kg	① PNEC sediment, marine water
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	22.5 mg/kg	① PNEC soil
Butanone CAS No.: 78-93-3 EC No.: 201-159-0	55.8 mg/L	① PNEC aquatic, intermittent release

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No further details. See section 7.

8.2.2. Personal protection equipment



Eye/face protection:

Safety goggles (EN-166)

Skin protection:

Hand protection:

Gloves / solvent resistant

Breakthrough times and swelling properties of the material must be taken into consideration.

Glove material:

The selection of a suitable glove depends not only on the material but also on other quality features and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use. NBR (Nitrile rubber)

Recommended material thickness: $\geq 0,5$ mm

Permeation time (maximum wear duration):

For continuous contact we recommend gloves with a breakthrough time of at least 240 minutes, with the preference for a breakthrough time greater than 480 minutes. For short term or splash protection we recommend the same. We are aware that suitable gloves offering this protection are not available.

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In this case, a shorter breakthrough time is permissible, provided the procedures for maintenance and timely replacement are followed. The thickness of the gloves is not a good measure of the resistance the gloves give against a chemical substance, as this depends on the exact composition of the material of the gloves. The exact breakthrough time should be checked with the glove manufacturer and adhered to.

Body protection:

Use protective suit. (EN-13034/6)

Antistatic, chemical and oil resistant clothing and safety shoes are recommended. (EN1149 EN340&EN ISO 13688 EN13034-6).

Respiratory protection:

In case of inadequate ventilation wear respiratory protection. Filter A2/P2

Other protection measures:

General protective and hygienic measures: Keep away from food, drink and animal feed. Remove contaminated, saturated clothing immediately. Wash hands before breaks and after work. Do not inhale gases/vapours/aerosols. General ventilation.

8.2.3. Environmental exposure controls

Use a suitable container to prevent environmental pollution.

SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Form: Aerosol

Colour: black

Odour: characteristic

flammability: No data available

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	<i>not applicable</i>		② Mixture is not polar/aprotic.
Initial boiling point and boiling range	-44.5 °C		
Flash point	-97 °C		
Evaporation rate	<i>No data available</i>		
Auto-ignition temperature	270 °C		② 64742-48-9 Kohlenwasserstoffe, C9-C11, nalkane, iso-alkane , <2% aromate
Upper/lower flammability or explosive limits	0.6 - 11.5 Vol-%		
Vapour pressure	4,900 hPa	20 °C	
Density	0.748 g/cm ³	20 °C	
Water solubility	Immiscible		
Kinematic viscosity	≤ 20.5 mm ² /s	40 °C	

* 9.2. Other information

The product is not self-igniting. The product is not explosive, but the formation of explosive vapour/air mixtures is possible. formation of explosive vapour/air mixtures is possible.

9.2.1. Information with regard to physical hazard classes

Explosives:

Not applicable

Flammable gases:

Not applicable

Aerosols:

Extremely flammable aerosol. Pressurized container: May burst if heated.

Oxidizing gases:

Not applicable

Gases under pressure:

Not applicable

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Flammable liquids:

Not applicable

Flammable solids:

Not applicable

Self-reactive substances and mixtures:

Not applicable

Pyrophoric liquids:

Not applicable

Pyrophoric solids:

Not applicable

Self-heating substances and mixtures:

Not applicable

Substances or mixtures which, in contact with water, emit flammable gases:

Not applicable

Oxidizing liquids:

Not applicable

Oxidizing solids:

Not applicable

Organic peroxides:

Not applicable

Corrosive to metals:

Not applicable

Desensitised explosives:

Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

10.2. Chemical stability

Thermal decomposition / Conditions to avoid: No decomposition when used as directed.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

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

Hydrocarbons, C9, aromatics	CAS No.: 128601-23-0	EC No.: 918-668-5
LD₅₀ oral: 3,492 mg/kg (Rat)		
LD₅₀ dermal: >3,160 mg/kg (Rabbit)		
LC₅₀ Acute inhalation toxicity (gas): >6,193 ppmV 4 h (Rat)		
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)		

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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 (dust/mist): >4,951 mg/L

Butanone CAS No.: 78-93-3 EC No.: 201-159-0

ATE (inhalation, dust/mist): 34 mg/L

LD₅₀ oral: >2,193 mg/kg (Rat) OECD 423

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

LC₅₀ Acute inhalation toxicity (dust/mist): 34 mg/L 4 h (Rat)

Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane EC No.: 921-024-6

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

LD₅₀ dermal: >2,920 mg/kg (Rabbit)

LC₅₀ Acute inhalation toxicity (gas): >20 ppmV 4 h (Rat) OECD 403

LC₅₀ Acute inhalation toxicity (vapour): >25.2 mg/L 4 h (Rat)

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

LD₅₀ oral: ≥5,000 mg/kg (Rat)

LD₅₀ dermal: ≥5,000 mg/kg (Rabbit)

LC₅₀ Acute inhalation toxicity (gas): 658 ppmV 4 h (Rat)

LC₅₀ Acute inhalation toxicity (vapour): ≥50 mg/L 4 h (Rat)

Isobutane CAS No.: 75-28-5 EC No.: 200-857-2

LC₅₀ Acute inhalation toxicity (vapour): 1,237 mg/L (Mouse)

ethanol CAS No.: 64-17-5 EC No.: 200-578-6

LD₅₀ oral: >2,000 mg/kg (Rat) IUCLID

LD₅₀ dermal: >2,000 mg/kg (Rat)

LC₅₀ Acute inhalation toxicity (vapour): >20 mg/L (Rat) RTECS

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.

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

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

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

STOT-single exposure:

May cause respiratory irritation. May cause drowsiness or dizziness.

STOT-repeated exposure:

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

Aspiration hazard:

May be fatal if swallowed and enters airways.

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11.2. Information on other hazards

Endocrine disrupting properties:

Butanone (78-93-3)

SECTION 12: Ecological information

* 12.1. Toxicity

Hydrocarbons, C9, aromatics CAS No.: 128601-23-0 EC No.: 918-668-5
EC ₅₀ : 3.2 mg/L 2 d (crustaceans, Daphnia magna)
EC ₅₀ : 2.75 mg/L 3 d (Algae/water plant, Pseudokirchneriella Subcapitata)
EC ₅₀ : 9.2 mg/L 4 d (fish)
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 develo
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, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics CAS No.: 64742-48-9 EC No.: 918-481-9
LC ₅₀ : >1,000 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
LC ₅₀ : >1,000 mg/L 4 d (fish, Oncorhynchus mykiss (Rainbow trout))
EC ₅₀ : >1,000 mg/L 2 d (crustaceans, Daphnia magna)
ErC ₅₀ : >1,000 mg/L 4 d (Algae/water plant, Scenedesmus subspicatus)
Butanone CAS No.: 78-93-3 EC No.: 201-159-0
LC ₅₀ : 2,993 mg/L 4 d (fish, Pimephales promelas) OECD 203
EC ₅₀ : 308 mg/L 2 d (crustaceans, Daphnia magna) OECD 202
ErC ₅₀ : 1,972 mg/L 3 d (Algae/water plant, Pseudokirchnerella subcapitata) OECD 201
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane EC No.: 921-024-6
LC ₅₀ : 11.4 mg/L 4 d (fish, Oncorhynchus mykiss) OECD 203
EC ₅₀ : 3 mg/L 2 d (crustaceans, Daphnia magna) OECD 202
NOEC: 0.17 mg/L 21 d (crustaceans, Daphnia magna)
LOEC: 0.32 mg/L 21 d (crustaceans, Daphnia magna)
EC ₅₀ : 30 - 100 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata)
LC ₅₀ : >1 - 10 mg/L 4 d (fish, Pimephales promelas)
EC ₅₀ : >1 - 10 mg/L 2 d (crustaceans, Daphnia magna)
NOEC: 2.045 mg/L 28 d (fish, Oncorhynchus mykiss)
NOEC: 1 mg/L 21 d (crustaceans, Daphnia magna) OECD 211
ErC ₅₀ : 10 - 30 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 201
LOEC: 0.32 mg/L 21 d (Daphnia magna)
LC ₅₀ : 11.4 mg/L 4 d (fish)
butane CAS No.: 106-97-8 EC No.: 203-448-7
LC ₅₀ : 49.9 mg/L 4 d (fish) The Ecosar class program has been develo
EC ₅₀ : 69.43 mg/L 2 d (crustaceans, Daphnia sp.) Calculation using ECOSAR Program v1.00
ErC ₅₀ : 19.37 mg/L 4 d (Algae/water plant, Algae) Calculation using ECOSAR Program v1.00

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Isobutane CAS No.: 75-28-5 EC No.: 200-857-2
LC₅₀ : 91.42 mg/L 4 d (fish)
EC₅₀ : 69.43 mg/L 2 d (crustaceans, Daphnia sp.)
ErC₅₀ : 19.37 mg/L 4 d (Algae/water plant)
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
LC₅₀ : >1,000 mg/L 4 d (fish)
LC₅₀ : =11,200 mg/L 1 d
EC₅₀ : >1,000 mg/L 2 d (crustaceans, Daphnia magna)
EC₅₀ : =275 mg/L 3 d
NOEC : =9.6 mg/L (crustaceans, Ceriodaphnia dubia)
ErC₅₀ : >100 mg/L
LC₅₀ : 8,140 mg/L 2 d (fish, Leuciscus idus (golden orfe))
EC₅₀ : 6,500 mg/L (Algae/water plant, Pseudomonas putida)
NOEC : 250 mg/L (fish, Danio rerio)
ErC₅₀ : 275 mg/L 3 d (Algae/water plant, Chlorella vulgaris)

12.2. Persistence and degradability

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
Butanone CAS No.: 78-93-3 EC No.: 201-159-0
Biodegradation : Yes, rapidly
Remark : Readily biodegradable (according to OECD criteria).
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane EC No.: 921-024-6
Biodegradation : Yes, rapidly
butane CAS No.: 106-97-8 EC No.: 203-448-7
Biodegradation : Yes, rapidly
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
Biodegradation : Yes, rapidly
Remark : Readily biodegradable (according to OECD criteria).

Biodegradation:

Not readily biodegradable.

12.3. Bioaccumulative potential

propane CAS No.: 74-98-6 EC No.: 200-827-9
Log K_{ow} : 1.09
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane EC No.: 921-024-6
Log K_{ow} : 5.2
Bioconcentration factor (BCF) : 250
butane CAS No.: 106-97-8 EC No.: 203-448-7
Log K_{ow} : 1.09
Isobutane CAS No.: 75-28-5 EC No.: 200-857-2
Log K_{ow} : 1.09
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
Log K_{ow} : -0.31

Accumulation / Evaluation:

No further relevant information available.

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12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

Hydrocarbons, C9, aromatics	CAS No.: 128601-23-0	EC No.: 918-668-5
Results of PBT and vPvB assessment: —		
Asphalt	CAS No.: 8052-42-4	EC No.: 232-490-9
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: —		
Butanone	CAS No.: 78-93-3	EC No.: 201-159-0
Results of PBT and vPvB assessment: —		
Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane	EC No.: 921-024-6	
Results of PBT and vPvB assessment: —		
butane	CAS No.: 106-97-8	EC No.: 203-448-7
Results of PBT and vPvB assessment: —		
Isobutane	CAS No.: 75-28-5	EC No.: 200-857-2
Results of PBT and vPvB assessment: —		
ethanol	CAS No.: 64-17-5	EC No.: 200-578-6
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

For information on endocrine disrupting properties see section 11.

12.7. Other adverse effects

Toxic to fish.

Do not allow to enter into surface water or drains.

Drinking water hazard even when small quantities leak into the subsoil.

Toxic to aquatic life.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Must not be disposed of together with household waste. Do not allow to enter into surface water or drains.

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.

Directive 2008/98/EC (Waste Framework Directive)

HP 3	Flammable
HP 4	Irritant — skin irritation and eye damage
HP 14	Ecotoxic

Waste treatment options

Appropriate disposal / Package:

Uncleaned packaging: Dispose of waste according to applicable legislation.

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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, MARINE POLLUTANT	AEROSOLS, flammable
14.3. Transport hazard class(es)			
 2.1	 2.1	 2.1	 2.1
14.4. Packing group			
		-	
14.5. Environmental hazards			
		 MARINE POLLUTANT	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: Attention: Gases	Special Provisions: 190 327 344 625 Limited quantity (LQ): 1 L Excepted Quantities (EQ): E0 Classification code: 5F Remark: Attention: Gases	Special Provisions: 63 190 277 327 344 381 959 Limited quantity (LQ): Siehe SV277 Excepted Quantities (EQ): E0 EmS-No.: F-D, S-U Remark: Attention: Gases	Special Provisions: A145 A167 Limited quantity (LQ): Y203 Excepted Quantities (EQ): E0 Remark: Attention: Gases

14.7. Maritime transport in bulk according to IMO instruments

No data available

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

Directive 2012/18/EU

Named dangerous substances - ANNEX I: None of the ingredients are included.

Restrictions on use:

Regulation (EC) No 1907/2006 ANNEX XVII: Restriction conditions: 3

Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II: None of the ingredients are included.

Regulation (EU) 2019/1148

Annex I - RESTRICTED EXPORT SUBSTANCES FOR EXPLOSIVES (upper concentration limit for a permit pursuant to Article 5(3)): None of the ingredients are included.

Annex II - EXPLOSIVES REPORTABLE FOR EXPLOSIVES: None of the ingredients are included.

Regulation (EC) No 273/2004 on drug precursors: Butanone (78-93-3)

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade in drug precursors between the Community and third countries: Butanone (78-93-3)

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Other regulations (EU):

Hazard categories:

- P3a 'Flammable' aerosols Category 1 or 2, containing flammable gases Category 1 or 2 or flammable liquids
- E2 Hazardous to the Aquatic Environment in Category Chronic 2

Named dangerous substances:

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

Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 559.2 g/L

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
9.2.	Other information
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
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC ₅₀	Effective Concentration 50%
EN	European Standard
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
IUCLID	International Uniform Chemical Information Database
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
OEL	Threshold Limit Value
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration

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REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
RTECS	Registry of Toxic Effects of Chemical Substances
SCL	Specific concentration limit
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds
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
Hazardous to the aquatic environment (<i>Aquatic Chronic 2</i>)	H411: Toxic to aquatic life with long lasting effects.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	
STOT-single exposure (<i>STOT SE 3</i>)	H335: May cause respiratory irritation.	
Aspiration hazard (<i>Asp. Tox. 1</i>)	H304: May be fatal if swallowed and enters airways.	
STOT-single exposure (<i>STOT SE 3</i>)	H336: May cause drowsiness or dizziness.	
aerosol dispensers and lighters (<i>Aerosol 1</i>)	H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated.	

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.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
Supplemental hazard information	
EUH066	Repeated exposure may cause skin dryness or cracking.

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.