

SAFETY DATA SHEET

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

Revision date: 23 Jan 2023

Print date: 19 Feb 2024

Version: 2

Page 1/16



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-YHMJ-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. | |
| Aerosols (<i>Aerosol 1</i>) | H222; H229: Extremely flammable aerosol. Pressurised container: May burst if heated. | |

SAFETY DATA SHEET

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

Revision date: 23 Jan 2023

Print date: 19 Feb 2024

Version: 2



Page 2/16

Bitu Seal Spray 500ml

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. |
|------|--|

Supplemental hazard information

| | |
|--------|---|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
|--------|---|

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. |
|------|---|

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.

SAFETY DATA SHEET

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

Revision date: 23 Jan 2023

Print date: 19 Feb 2024

Version: 2



Page 3/16

Bitu Seal Spray 500ml

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 | 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 | 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 | 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 | 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 | 2.5 - < 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 (Comp.) (H280) Danger | 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 | 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 | ethanol Flam. Liq. 2 (H225) Danger Specific concentration limit (SCL) Eye Irrit. 2; H319: C ≥ 50% | 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.

SAFETY DATA SHEET

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

Revision date: 23 Jan 2023

Print date: 19 Feb 2024

Version: 2



Page 4/16

Bitu Seal Spray 500ml

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.

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.

SAFETY DATA SHEET

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

Revision date: 23 Jan 2023

Print date: 19 Feb 2024

Version: 2



Page 5/16

Bitu Seal Spray 500ml

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.

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) |

SAFETY DATA SHEET

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

Revision date: 23 Jan 2023

Print date: 19 Feb 2024

Version: 2



Page 6/16

Bitu Seal Spray 500ml

| 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) | 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

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 |

SAFETY DATA SHEET

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

Revision date: 23 Jan 2023

Print date: 19 Feb 2024

Version: 2



Page 7/16

Bitu Seal Spray 500ml

| Substance name | DNEL value | ① DNEL type ② Exposure route |
|--|-------------------------|---|
| 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 |
| 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.

SAFETY DATA SHEET

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

Revision date: 23 Jan 2023

Print date: 19 Feb 2024

Version: 2



Page 8/16

Bitu Seal Spray 500ml

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. 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

Physical state: Aerosol

Colour: black

Odour: characteristic

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 | |

SAFETY DATA SHEET

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

Revision date: 23 Jan 2023

Print date: 19 Feb 2024

Version: 2



Page 9/16

Bitu Seal Spray 500ml

| Parameter | Value | at °C | ① Method ② Remark |
|---------------------|---------------------------|-------|----------------------|
| Density | 0.748 g/cm ³ | 20 °C | |
| Bulk density | <i>not applicable</i> | | |
| 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

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.

SAFETY DATA SHEET

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

Revision date: 23 Jan 2023

Print date: 19 Feb 2024

Version: 2

Page 10/16



Bitu Seal Spray 500ml

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) |
| 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 |
| 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 |
| ATE (oral): 10,470 mg/kg |
| 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.

SAFETY DATA SHEET

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

Revision date: 23 Jan 2023

Print date: 19 Feb 2024

Version: 2

Page 11/16



Bitu Seal Spray 500ml

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.

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) |
| 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) |
| NOEC: 0.017 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) |
| ErC ₅₀ : 19.37 mg/L 4 d (Algae/water plant) |
| 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 |

SAFETY DATA SHEET

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

Revision date: 23 Jan 2023

Print date: 19 Feb 2024

Version: 2

Page 12/16



Bitu Seal Spray 500ml

| |
|---|
| 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) |
| butane CAS No.: 106-97-8 EC No.: 203-448-7 |
| LC ₅₀ : 49.9 mg/L 4 d (fish) |
| EC ₅₀ : 69.43 mg/L 2 d (crustaceans, Daphnia) |
| ErC ₅₀ : 19.37 mg/L 4 d (Algae/water plant) |
| Isobutane CAS No.: 75-28-5 EC No.: 200-857-2 |
| LC ₅₀ : 91.42 mg/L 4 d (fish) |
| EC ₅₀ : 69.43 mg/L 2 d (crustaceans, Daphnia sp.) |
| ErC ₅₀ : 19.37 mg/L 4 d (Algae/water plant) |
| ethanol CAS No.: 64-17-5 EC No.: 200-578-6 |
| LC ₅₀ : >1,000 mg/L 4 d (fish) |
| LC ₅₀ : =11,200 mg/L 1 d |
| EC ₅₀ : >1,000 mg/L 2 d (crustaceans, Daphnia magna) |
| EC ₅₀ : =275 mg/L 3 d |
| NOEC: =9.6 mg/L |
| ErC ₅₀ : >100 mg/L |
| LC ₅₀ : 8,140 mg/L 2 d (fish, Leuciscus idus (golden orfe)) |
| EC ₅₀ : 6,500 mg/L (Algae/water plant, Pseudomonas putida) |

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 |

SAFETY DATA SHEET

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

Revision date: 23 Jan 2023

Print date: 19 Feb 2024

Version: 2

Page 13/16



Bitu Seal Spray 500ml

| |
|---|
| 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.

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 |
|------------|---|

*: Evidence for disposal must be provided.

Directive 2008/98/EC (Waste Framework Directive)

| | |
|------|---|
| HP 3 | Flammable |
| HP 4 | Irritant — skin irritation and eye damage |

SAFETY DATA SHEET

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

Revision date: 23 Jan 2023

Print date: 19 Feb 2024

Version: 2



Page 14/16

Bitu Seal Spray 500ml








| | |
|-------|----------|
| HP 14 | Ecotoxic |
|-------|----------|

Waste treatment options

Appropriate disposal / Package:

Uncleaned packaging: Dispose of waste according to applicable legislation.

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

SAFETY DATA SHEET

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

Revision date: 23 Jan 2023

Print date: 19 Feb 2024

Version: 2



Page 15/16

Bitu Seal Spray 500ml

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)

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

No data available

16.2. Abbreviations and acronyms

| | |
|------------------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| 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 |
| 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 |
| REACH | Registration, Evaluation and Authorization of Chemicals |
| RID | Dangerous goods regulations for transport by rail |
| SCL | Specific concentration limit |
| TRGS | Technische Regeln für Gefahrstoffe |

SAFETY DATA SHEET

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

Revision date: 23 Jan 2023

Print date: 19 Feb 2024

Version: 2

Page 16/16



Bitu Seal Spray 500ml

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 |
|---|--|--------------------------|
| 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. | |
| Aerosols (<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.