

SAFETY DATA SHEET

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

Revision date: 25 Jul 2023

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Version: 2

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Bitu Seal 310ml

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

1.1. Product identifier

Trade name/designation:

Bitu Seal 310ml

Article No.:

T602106

UFI:

YU9Q-QQ01-T506-6KJ1

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

Use of the substance/mixture:

Bitumen

1.3. Details of the supplier of the safety data sheet

Supplier:

KANDO Service GmbH

Hartleitnerstraße 3

4653 Eberstälzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids (<i>Flam. Liq. 3</i>)	H226: Flammable liquid and vapour.	
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

Signal word: Warning

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Hazard components for labelling:

Solvent naphtha (petroleum), light aromatic

Hazard statements for physical hazards

H226	Flammable liquid and vapour.
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Hazard statements for environmental hazards

H412	Harmful to aquatic life with long lasting effects.
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Precautionary statements Prevention

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P241	Use explosion-proof electrical/ventilating/lighting/ equipment.
P273	Avoid release to the environment.
P280	Wear protective gloves.

2.3. Other hazards

Other adverse effects:

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

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Additional information:

Harmonized classification as carcinogenic or germ cell mutagenic shall be applied unless it can be shown that the substance contains less than 0.1% benzene (Einecs No. 200-753-7) by weight, in which case classification in accordance with Title II of this Regulation shall also be applied for these hazard classes. If the substance is not classified as carcinogenic or germ cell mutagenic, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall be applied.

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64742-95-6 EC No.: 265-199-0 REACH No.: 01-2119455851-35	Solvent naphtha (petroleum), light aromatic The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	< 12 Vol-%

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

If medical advice is needed, have product container or label at hand.

Following inhalation:

Remove person to fresh air and keep comfortable for breathing.

In case of skin contact:

Take off immediately all contaminated clothing. Rinse skin with water/shower. In case of skin reactions, consult a physician.

After eye contact:

If eye irritation persists: Get medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Following ingestion:

Do NOT induce vomiting. Call a physician immediately.

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

Get medical advice/attention if you feel unwell.

Symptoms/effects after inhalation: Inhalation may cause irritation (coughing, shortness of breath, difficulty breathing). May cause drowsiness and dizziness. May cause headache and dizziness. Symptoms/effects after skin contact: Remove all contaminated clothing immediately. Repeated contact may cause chapped or cracked skin. IF ON SKIN: Wash with plenty of water. Symptoms/effects after eye contact:

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Irritating to eyes. Rinse thoroughly with clean, fresh water for at least 15 minutes, holding the eyelids apart. Consult an ophthalmologist. Symptoms/effects after ingestion: Ingestion of this product will cause damage to health. Harmful: may cause lung damage if swallowed. Call a doctor even if no immediate symptoms occur.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Carbon dioxide (CO₂), Powder, Water spray jet, Foam

Unsuitable extinguishing media:

Water in full jet

5.2. Special hazards arising from the substance or mixture

Heating may cause a fire or explosion.

Flammable/explosive vapour-air mixtures may be formed. Do not allow extinguishing water to flow into waste water or watercourses.

Do not attempt to operate without suitable protective equipment.

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

Cool endangered containers with water spray.

5.3. Advice for firefighters

Evacuate area.

Remove all sources of ignition. In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Personal precautions:

Remove all sources of ignition. Do not spray on an open flame or other ignition source.

Emergency procedures:

Only qualified personnel in suitable protective equipment may intervene. Avoid contact with skin, eyes and clothing. Notify police and fire brigade as soon as possible.

6.1.2. For emergency responders

Personal protection equipment:

Wear personal protection equipment (refer to section 8). Do not attempt to operate without suitable protective equipment.

Ventilate affected area.

6.2. Environmental precautions

In case of spillage into water or sewage system, inform the competent authorities. Collect spillage.

6.3. Methods and material for containment and cleaning up

For containment:

Collect spillage.

For cleaning up:

This substance and its container must be disposed of safely and in accordance with local regulations.

Absorb spillage as soon as possible with inert solids such as clay or diatomaceous earth.

Other information:

Feed substances or residues in solid form to an approved facility.

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.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Use only outdoors or in a well-ventilated area. Eliminate all ignition sources if safe to do so. Wear personal protection equipment (refer to section 8). Avoid contact with skin, eyes and clothes. Take action to prevent static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Take action to prevent static discharges.

Requirements for storage rooms and vessels:

Keep cool. Store in a well-ventilated place. Store in a closed container.

Storage class (TRGS 510, Germany): 3 - Flammable liquids

Further information on storage conditions:

Protect from 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)	Solvent naphtha (petroleum), light aromatic CAS No.: 64742-95-6 EC No.: 265-199-0	① 20 mL/m ³ ② 40 mL/m ³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von mehr als 25 %)
MAK (AT)	Solvent naphtha (petroleum), light aromatic CAS No.: 64742-95-6 EC No.: 265-199-0	① 70 mL/m ³ ② 140 mL/m ³ ⑤ (für Kohlenwasserstoffgemische mit einem Gehalt an aromatischen Kohlenwasserstoffen von 1 % bis 25 % und an Hexanen von weniger als 1 %)

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
Solvent naphtha (petroleum), light aromatic CAS No.: 64742-95-6 EC No.: 265-199-0	150 mg/m ³	① DNEL worker ② Long-term - inhalation, systemic effects
Solvent naphtha (petroleum), light aromatic CAS No.: 64742-95-6 EC No.: 265-199-0	32 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
Solvent naphtha (petroleum), light aromatic CAS No.: 64742-95-6 EC No.: 265-199-0	25 mg/kg bw/ day	① DNEL worker ② Long-term - dermal, systemic effects
Solvent naphtha (petroleum), light aromatic CAS No.: 64742-95-6 EC No.: 265-199-0	11 mg/kg	① DNEL Consumer ② Long-term - dermal, systemic effects
Solvent naphtha (petroleum), light aromatic CAS No.: 64742-95-6 EC No.: 265-199-0	11 mg/kg	① DNEL Consumer ② Long-term - oral, systemic effects

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Ensure good ventilation/extraction at the workplace.

8.2.2. Personal protection equipment



Eye/face protection:

Safety goggles. Wear face protection.

Skin protection:

Hand protection:

Disposable gloves

Glove material: NBR (Nitrile rubber)

Respiratory protection:

No further relevant information available.

Thermal hazards:

No further relevant information available.

8.2.3. Environmental exposure controls

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Paste

Colour: black

Odour: characteristic

Safety relevant basis data

Parameter	Value	① Method ② Remark
Initial boiling point and boiling range	No data available	
Flash point	55 °C	
Evaporation rate	No data available	
Vapour pressure	No data available	
Density	1.25 g/cm ³	
Water solubility	practically insoluble	

9.2. Other information

No further relevant information available.

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SECTION 10: Stability and reactivity

10.1. Reactivity

Heating may cause a fire or explosion.

10.2. Chemical stability

Combustible liquid.

10.3. Possibility of hazardous reactions

No further relevant information available.

10.4. Conditions to avoid

All heat sources, including direct sunlight. No naked flames, no sparks. Remove all sources of ignition. Avoid shock and friction.

10.5. Incompatible materials

Oxidizing agent. Acids. Bases.

10.6. Hazardous decomposition products

No further relevant information available.

SECTION 11: Toxicological information

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

Solvent naphtha (petroleum), light aromatic CAS No.: 64742-95-6 EC No.: 265-199-0
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ATE (oral): 3,592 mg/kg

LD₅₀ oral: 3,592 mg/kg (Rat)
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LD₅₀ dermal: >3,160 mg/kg (Rabbit)
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LC₅₀ Acute inhalation toxicity (vapour): >20 mg/L

LC₅₀ Acute inhalation toxicity (dust/mist): >6,193 mg/L (Rat)

Acute oral toxicity:

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

Acute dermal toxicity:

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

Acute inhalation toxicity:

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

Skin corrosion/irritation:

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

Serious eye damage/irritation:

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

Respiratory or skin sensitisation:

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

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

STOT-single exposure:

May cause drowsiness or dizziness. May cause respiratory irritation.

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.

11.2. Information on other hazards

Endocrine disrupting properties:

No further relevant information available.

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SECTION 12: Ecological information

12.1. Toxicity

Solvent naphtha (petroleum), light aromatic CAS No.: 64742-95-6 EC No.: 265-199-0
LC₅₀ : 9.2 mg/L 4 d (fish, <i>Oncorhynchus mykiss</i>)
ErC₅₀ : 3.2 mg/L 2 d (crustaceans, <i>Daphnia magna</i>)
ErC₅₀ : 1 mg/L (Algae/water plant, <i>Pseudokirchneriella subcapitata</i>)
LC₅₀ : >1 - 10 mg/L 4 d (fish)
EC₅₀ : >1 - 10 mg/L 2 d (crustaceans)
EC₅₀ : >1 - 10 mg/L (Algae/water plant)

Aquatic toxicity:

Harmful to aquatic life with long lasting effects.

Assessment/classification:

No further relevant information available.

12.2. Persistence and degradability

Solvent naphtha (petroleum), light aromatic CAS No.: 64742-95-6 EC No.: 265-199-0
Biodegradation: Yes, rapidly

Additional information:

No further relevant information available.

12.3. Bioaccumulative potential

No data available

12.4. Mobility in soil

No further relevant information available.

12.5. Results of PBT and vPvB assessment

Solvent naphtha (petroleum), light aromatic CAS No.: 64742-95-6 EC No.: 265-199-0
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

No further relevant information available.

12.7. Other adverse effects

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of waste according to applicable legislation.

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product

08 04 09 *	Waste adhesives and sealants containing organic solvents or other dangerous substances
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*: Evidence for disposal must be provided.

Remark:

Flammable vapours may form in the container. If possible without risk, clean up even small spills or leaks immediately.

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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 1999	UN 1999	UN 1999	UN 1999
14.2. UN proper shipping name			
TARS, LIQUID	Tars, liquid	Tars, liquid	Tars, liquid
14.3. Transport hazard class(es)			
 3	 3	 3	 3
14.4. Packing group			
III	III	III	III
14.5. Environmental hazards			
No	No	No	No
14.6. Special precautions for user			
Limited quantity (LQ): 5 L Excepted Quantities (EQ): E1 Hazard identification number (Kemler No.): 30 Classification code: F1 Tunnel restriction code: (D/E)	Limited quantity (LQ): 5 L Excepted Quantities (EQ): E1 Classification code: F1	Special Provisions: 955 Limited quantity (LQ): 5 L Excepted Quantities (EQ): E1 EmS-No.: F-E, S-E	Special Provisions: A3 Limited quantity (LQ): Y344 Excepted Quantities (EQ): E1 Remark: IATA Maximum Quantity - Cargo: 220 L IATA Maximum Quantity - Passenger: 60L IATA-Verpackungsanweisung - Cargo: 366 IATA Packing Instructions - Passenger: 355

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Authorisations:

Does not contain a substance subject to the restrictions of Annex XVII of REACH. Does not contain a REACH candidate substance. Does not contain a substance listed in REACH Annex XIV. Does not contain any substance subject to Regulation (EU) 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals. Does not contain any substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants. Does not contain any substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 concerning the placing on the market and use of precursors to explosives.

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

Volatile organic compounds (VOC) content in percent by weight: 144 g/L

15.1.2. National regulations

No data available

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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

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
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
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
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
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds

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
flammable liquids (<i>Flam. Liq. 3</i>)	H226: Flammable liquid and vapour.	
Hazardous to the aquatic environment (<i>Aquatic Chronic 3</i>)	H412: Harmful to aquatic life with long lasting effects.	

16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

No data available

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.