Bitu Seal 10kg

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

1.1. Product identifier

Trade name/designation:

Bitu Seal 10kg

Article No.:
T602210

UFI:
QT28-38QM-U90S-TRHD

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

Use of the substance/mixture:
Fibrous bitumen filler

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
flammable liquids *(Flam. Liq. 3)*	H226: Flammable liquid and vapour.	
STOT-single exposure *(STOT SE 3)*	H336: May cause drowsiness or dizziness.	

2.2. Label elements

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

Hazard pictograms:



GHS02
Flame



GHS07
Exclamation mark

Signal word: Warning

Hazard statements for physical hazards	
H226	Flammable liquid and vapour.

Hazard statements for health hazards	
H336	May cause drowsiness or dizziness.

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.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/protective clothing.

Precautionary statements Storage	
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.

Precautionary statements Disposal	
P501	Dispose of contents/container to an appropriate recycling or disposal facility.

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

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3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
EC No.: 919-857-5 REACH No.: 01-2119463258-33	**Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics** Asp. Tox. 1 (H304), Flam. Liq. 3 (H226), STOT SE 3 (H336)  Danger **Acute Toxicity Estimate** ATE (oral) 5,000 mg/kg ATE (dermal) 2,000 mg/kg ATE (inhalation, vapour) 4.951 mg/L ATE (inhalation, dust/mist) 5.6 mg/L	25 – 50 weight-%
CAS No.: 64742-93-4 EC No.: 265-196-4 REACH No.: 01-2119498270-36	**Asphalt, oxidized** The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	25 – 50 weight-%

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious but breathing normally, place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

After eye contact:
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Following ingestion:
Rinse mouth. Get medical advice/attention if you feel unwell.

Self-protection of the first aider:
Use personal protection equipment.

4.2. Most important symptoms and effects, both acute and delayed
Prolonged or repeated contact with skin or mucous membrane result in irritation symptoms such as redness, blistering, dermatitis, etc.. Dizziness, Dizziness.

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:
Water spray jet, alcohol resistant foam, Foam, Extinguishing powder, Carbon dioxide (CO2)

Unsuitable extinguishing media:
Full water jet

5.2. Special hazards arising from the substance or mixture
Combustible

Hazardous combustion products:
Burning produces heavy smoke. Carbon monoxide, Nitrogen oxides (NOx). In case of fire: Gases/vapours, toxic.

5.3. Advice for firefighters
Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
6.1.1. For non-emergency personnel
Personal precautions:
Remove persons to safety. Avoid contact with skin, eyes and clothes.

Protective equipment:
Wear protective gloves/protective clothing/eye protection/face protection.

Emergency procedures:
Remove persons to safety. Provide adequate ventilation. Remove all sources of ignition.

6.1.2. For emergency responders
Personal protection equipment:
Personal protection equipment: see section 8.

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

6.3. Methods and material for containment and cleaning up
For containment:
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:
Treat the recovered material as prescribed in the section on waste disposal.

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.

6.5. Additional information
Use suitable container to avoid contamination of the environment.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:
Wear personal protection equipment (refer to section 8).

Fire prevent measures:
Vapours can form explosive mixtures with air. Keep away from sources of ignition - No smoking.

Measures to prevent aerosol and dust generation:
Provide adequate ventilation as well as local exhaustion at critical locations.

Environmental precautions:
Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:
Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight.

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

7.3. Specific end use(s)

Industrial sector specific solutions:
Bituminous compounds, low in aromatics, containing solvents

GISCODE:
BBP20

SECTION 8: Exposure controls/personal protection

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8.1. Control parameters

8.1.1. Occupational exposure limit values
No data available

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-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics EC No.: 919-857-5	1,500 mg/m³	① DNEL worker ② Acute - inhalation, systemic effects
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics EC No.: 919-857-5	900 mg/m³	① DNEL Consumer ② Acute - inhalation, systemic effects
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics EC No.: 919-857-5	300 mg/kg bw/day	① DNEL worker ② Acute – dermal, systemic effects
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics EC No.: 919-857-5	300 mg/kg bw/day	① DNEL worker ② Acute – oral, systemic effects

8.2. Exposure controls

8.2.1. Appropriate engineering controls
No special technical protective measures are necessary.

8.2.2. Personal protection equipment



Eye/face protection:
Eye glasses with side protection DIN EN 166

Skin protection:
Tested protective gloves must be worn (EN ISO 374).
Suitable material: NBR (Nitrile rubber)
Breakthrough times and swelling properties of the material must be taken into consideration. In the case of wanting to use the gloves again, clean them before taking off and air them well.

Respiratory protection:
This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

Other protection measures:
Use of protective clothing.

8.2.3. Environmental exposure controls
Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid
Colour: black
Odour: Hydrocarbons, aliphatic
flammability: No data available

Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	*No data available*		
Melting point	*No data available*		
Freezing point	*No data available*		
Initial boiling point and boiling range	154 – 193 °C		
Flash point	41 °C		
Evaporation rate	*No data available*		
Auto-ignition temperature	*No data available*		
Upper/lower flammability or explosive limits	*No data available*		
Vapour pressure	*No data available*		
Vapour density	*No data available*		
Density	0.9316 g/cm³	20 °C	
Bulk density	*not applicable*		
Water solubility	*No data available*		
Dynamic viscosity	*No data available*		
Kinematic viscosity	470 mm²/s	40 °C	

9.2. Other information
No hazardous reaction when handled and stored according to provisions.

SECTION 10: Stability and reactivity

10.1. Reactivity
Flammable liquid and vapour.

10.2. Chemical stability
The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions
In use, may form flammable/explosive vapour-air mixture.

10.4. Conditions to avoid
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials
Oxidising agent, strong

10.6. Hazardous decomposition products
No known hazardous decomposition products. Gases/vapours, toxic.

SECTION 11: Toxicological information

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

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics EC No.: 919-857-5
LD_{50} oral: 5,000 mg/kg (Rat) OECD 401
LD_{50} dermal: 2,000 mg/kg (Rat) OECD 402
LC_{50} Acute inhalation toxicity (vapour): 4.951 mg/L 4 h (Rat)
LC_{50} Acute inhalation toxicity (dust/mist): 5.6 mg/L 4 h (Rat) OECD 403

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:
Repeated exposure may cause skin dryness or cracking.

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.

STOT-repeated exposure:
Based on available data, the classification criteria are not met.

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

Additional information:
No further relevant information available.

11.2. Information on other hazards
Endocrine disrupting properties:
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

SECTION 12: Ecological information

* **12.1. Toxicity**

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics EC No.: 919-857-5
LC_{50}: 1,000 mg/L 4 d (fish, Oncorhynchus mykiss) OECD 203
LC_{50}: 1,000 mg/L 2 d (crustaceans, Daphnia magna) OECD 202
LC_{50}: >1,000 mg/L 4 d (fish, Regenbogenforelle) OECD 203
EC_{50}: 1,000 mg/L 2 d (crustaceans, Daphnia magna) OECD 202
EC_{50}: 1,000 mg/L 3 d (Algae/water plant, Pseudokirchneriella subcapitata) OECD 202
EC_{50}: >1,000 mg/L 2 d (crustaceans, Daphnia magna) OECD 202

Assessment/classification:
There are no data available on the mixture itself.

Additional ecotoxicological information:
There are no data available on the mixture itself.

* **12.2. Persistence and degradability**

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics EC No.: 919-857-5
Biodegradation: Yes, rapidly

Biodegradation:
There are no data available on the mixture itself.

* **12.3. Bioaccumulative potential**

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics EC No.: 919-857-5
Log K_{OW}: > 4

Bioconcentration factor (BCF):
There are no data available on the mixture itself.

Accumulation / Evaluation:
There are no data available on the mixture itself.

12.4. Mobility in soil
There are no data available on the mixture itself.

* **12.5. Results of PBT and vPvB assessment**

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclenes, <2% aromatics EC No.: 919-857-5
Results of PBT and vPvB assessment: —
Asphalt, oxidized CAS No.: 64742-93-4 EC No.: 265-196-4
Results of PBT and vPvB assessment: —

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

12.6. Endocrine disrupting properties
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

12.7. Other adverse effects
There are no data available on the mixture itself.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Consult the appropriate local waste disposal expert about waste disposal.

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

**: Evidence for disposal must be provided.*

Waste code packaging

08 04 09 *	Waste adhesives and sealants containing organic solvents or other dangerous substances

**: Evidence for disposal must be provided.*

Waste treatment options

Appropriate disposal / Product:
Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:
Completely emptied packages can be recycled.

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			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant	not relevant	not relevant	not relevant
14.4. Packing group			
not relevant	not relevant	not relevant	not relevant
14.5. Environmental hazards			
not relevant	not relevant	not relevant	not relevant
14.6. Special precautions for user			
not relevant	not relevant	not relevant	not relevant

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:
1 Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. 2. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Official Journal of the European Union L No. 353, 31.12.2008, as amended) 3. Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), as amended. 4. Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC (Official Journal of the EU L 81, 31.03.2016, p. 51).

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
11.1.	Information on hazard classes as defined in Regulation (EC) No 1272/2008
12.1.	Toxicity
12.2.	Persistence and degradability
12.3.	Bioaccumulative potential
12.5.	Results of PBT and vPvB assessment
16.1.	Indication of changes

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
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DIN	German Institute for Standardization / German Industrial Standard
DNEL	derived no-effect level
EC_{50}	Effective Concentration 50%
EN	European Standard
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
OECD	Organisation for Economic Cooperation and Development
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
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
flammable liquids *(Flam. Liq. 3)*	H226: Flammable liquid and vapour.	
STOT-single exposure *(STOT SE 3)*	H336: May cause drowsiness or dizziness.	

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

Hazard statements	
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.

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.