SAFETY DATA SHEET

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

1.1. Product identifier

   Trade name
   Bitumix BTM-75 and Bitumix BTM-150

   Product no.
   -

   REACH registration number
   Not applicable

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

   Relevant identified uses of the substance or mixture
   Cementitious capillary active coat on concrete, mortar for concrete and masonry

   Uses advised against
   -
   The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet

   Company and address
   Bitusal Danmark
   Åmosevej 80, Skellingsted
   4440 Mørkøv
   DK
   CVR 36684062
   Tel: +45 56 26 82 06

   Contact person
   Bjarne Poulsen

   E-mail
   info@bitusal.com

   SDS date
   17-09-2015

   SDS Version
   1.0

1.4. Emergency telephone number

   Use your national or local emergency number
   See section 4 "First aid measures"

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

   Eye Dam. 1; H318
   Skin Irrit. 2; H315
   STOT SE 3; H335

   See full text of H-phrases in section 2.2.

2.2. Label elements

   Hazard pictogram(s)
According to EC-Regulation 1907/2006 (REACH)

Signal word
Danger

Hazard statement(s)
Causes serious eye damage. (H318)
Causes skin irritation. (H315)
May cause respiratory irritation. (H335)

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

Prevention
Do not breathe dust. (P260).

Safety statement(s)
Wear protective gloves/protective clothing/eye protection. (P280).

Response
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338).

Storage
Dispose of contents/container to an approved waste disposal plant. (P501).

Identity of the substances primarily responsible for the major health hazards
Cement, portland, calcium dihydroxide

2.3. Other hazards
The product is corrosive when mixed with water.

Additional labelling
The content of water-soluble chromate is less than 2 ppm in dry storage up to 12 months from production date. If stored under moist conditions, the chromate reduction can be impaired.

Additional warnings
- 

VOC
- 

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

<table>
<thead>
<tr>
<th>NAME:</th>
<th>Cement, portland</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDENTIFICATION NOS.:</td>
<td>CAS-no: 65997-15-1 EC-no: 266-043-4</td>
</tr>
<tr>
<td>CONTENT:</td>
<td>40-60%</td>
</tr>
<tr>
<td>CLP CLASSIFICATION:</td>
<td>STOT SE 3, Skin Irrit. 2, Eye Dam. 1 H315, H318, H335</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NAME:</th>
<th>calcium dihydroxide</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDENTIFICATION NOS.:</td>
<td>CAS-no: 1305-62-0 EC-no: 215-137-3</td>
</tr>
<tr>
<td>CONTENT:</td>
<td>10-15%</td>
</tr>
<tr>
<td>CLP CLASSIFICATION:</td>
<td>STOT SE 3, Skin Irrit. 2, Eye Dam. 1 H315, H318, H335</td>
</tr>
</tbody>
</table>

(*) See full text of H-phrases in chapter 16. Occupational exposure limits are listed in section 8, if these are available.

Other informations
Eye Cat. 1 Sum = Sum(Ci/S(G)Cl) = 15,4136 - 23,1204
Skin Cat. 2 Sum = Sum(Ci/S(G)Cl) = 4,624 - 6,936

SECTION 4: First aid measures

4.1. Description of first aid measures
According to EC-Regulation 1907/2006 (REACH)

**General information**
In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor, if in doubt about the injured person’s condition or if the symptoms continue. Never give an unconscious person water or similar.

**Inhalation**
Get the injured person into fresh air. Make sure there is always someone with the injured person. Prevent shock by keeping the injured person warm and calm. If the person stops breathing, give mouth-to-mouth resuscitation. If unconscious, roll the injured person onto side with the top leg bent at both knee and hip. Call an ambulance.

**Skin contact**
Remove contaminated clothing and shoes at once. Skin that has come in contact with the material must be washed thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

**Eye contact**
Remove contact lenses. Flush eyes with plenty of water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. Contact a doctor at once.

**Ingestion**
Give the person plenty to drink and stay with the person. If the person feels unwell, contact a doctor immediately and take this safety data sheet or the label from the product with you. Do not induce vomiting unless recommended by the doctor. Hold head facing down so that no vomit runs back into the mouth and throat.

**Burns**
Not applicable

4.2. **Most important symptoms and effects, both acute and delayed**
Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

4.3. **Indication of any immediate medical attention and special treatment needed**
No special

**Information to medics**
Bring this safety data sheet.

SECTION 5: Firefighting measures

5.1. **Extinguishing media**
Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Water jets should not be used, since they can spread the fire.

5.2. **Special hazards arising from the substance or mixture**
No special

5.3. **Advice for firefighters**
Wear self-contained breathing apparatus and protective clothing to prevent contact.

SECTION 6: Accidental release measures

6.1. **Personal precautions, protective equipment and emergency procedures**
Avoid direct contact with spilled substances.

6.2. **Environmental precautions**
No specific requirements.

6.3. **Methods and material for containment and cleaning up**
Sweep up spills carefully. Use water sprays or ventilated evacuation systems to prevent dust. Cleaning should be done as far as possible using normal cleaning agents. Solvents should be avoided.

6.4. **Reference to other sections**
See section on "Disposal" with regard to the handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

7.1. **Precautions for safe handling**
According to EC-Regulation 1907/2006 (REACH)

See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original.

Storage temperature

No data available.

7.3. Specific end use(s)

This product should only be used for applications described in Section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL

Quartz, respirable (EH40, 2011)
Long-term exposure limit (8-hour TWA reference period): - ppm | 0.1 mg/m³
Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

Quartz (EH40, 2011)
Long-term exposure limit (8-hour TWA reference period): - ppm | 0.1 mg/m³
Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

calcium dihydroxide (EH40/2005, 2011)
Long-term exposure limit (8-hour TWA reference period): - ppm | 5 mg/m³
Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

Cement, portland (EH40/2005, 2011)
Long-term exposure limit (8-hour TWA reference period): - ppm | 10 mg/m³
Short-term exposure limit (15-minute reference period): - ppm | - mg/m³

DNEL / PNEC

No data available.

8.2. Exposure controls

Compliance with the stated exposure limits values should be checked on a regular basis.

General recommendations
Observe general occupational hygiene.

Exposure scenarios
If there is an appendix to this safety data sheet, the indicated exposure scenarios must be complied.

Exposure limits
Trade users are covered by the rules of the working environment legislation on maximum concentrations for exposure. See work hygiene threshold values below.

Appropriate technical measures
Airborne gas and dust concentrations must be kept as low as possible and below the current threshold values (see below). Use for example an exhaust system if the normal air flow in the work room is not sufficient. Make sure that eyewash and emergency showers are clearly marked.

Hygiene measures
Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Always wash hands, forearms and face.

Measures to avoid environmental exposure
Keep damming materials near the workplace. If possible collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally
According to EC-Regulation 1907/2006 (REACH)

- Use only CE marked protective equipment.

**Respiratory Equipment**
- Recommended: S/SL, P1, White

**Skin protection**
- Special work clothing should be used. When working with this product for a long period of time, use a protective suit.

**Hand protection**
- Recommended: Neoprene. : NA

**Eye protection**
- Use safety glasses with a side shield.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Colour</th>
<th>Odour</th>
<th>pH</th>
<th>Viscosity</th>
<th>Density (g/cm³)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Powder</td>
<td>Light gray</td>
<td>None</td>
<td>13 with water</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Phase changes**
- Melting point (°C)
- Boiling point (°C)
- Vapour pressure (mm Hg)

**Data on fire and explosion hazards**
- Flashpoint (°C)
- Ignition (°C)
- Self ignition (°C)

**Explosion limits (Vol %)**
- Oxidizing properties
- 

**Solubility**
- Solubility in water
- n-octanol/water coefficient
- Soluble
- 

#### 9.2. Other information

- Solubility in fat
- Additional information
- N/A

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity
- No data available

#### 10.2. Chemical stability
- The product is stable under the conditions, noted in the section on “Handling and storage”.

#### 10.3. Possibility of hazardous reactions
- No special

#### 10.4. Conditions to avoid
- No special

#### 10.5. Incompatible materials
- Strong acids, strong bases, strong oxidizing agents, and strong reductants agents.

#### 10.6. Hazardous decomposition products
- The product is not degraded when used as specified in section 1.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Acute toxicity**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Species</th>
<th>Test</th>
<th>Route of exposure</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>calcium dihydroxide</td>
<td>Rat</td>
<td>LD50</td>
<td>Oral</td>
<td>&gt;2000 mg/kg</td>
</tr>
<tr>
<td>calcium dihydroxide</td>
<td>Rabbit</td>
<td>LC50</td>
<td>Dermal</td>
<td>&gt;2500 mg/kg</td>
</tr>
</tbody>
</table>

**Skin corrosion/irritation**
According to EC-Regulation 1907/2006 (REACH)

Causes skin irritation.

**Serious eye damage/irritation**
Causes serious eye damage.

**Respiratory or skin sensitisation**
No data available.

**Germ cell mutagenicity**
No data available.

**Carcinogenicity**
No data available.

**Reproductive toxicity**
No data available.

**STOT-single exposure**
May cause respiratory irritation.

**STOT-repeated exposure**
No data available.

**Aspiration hazard**
No data available.

**Long term effects**
Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.

### SECTION 12: Ecological information

#### 12.1. Toxicity

<table>
<thead>
<tr>
<th>Substance</th>
<th>Species</th>
<th>Test</th>
<th>Test duration</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>calcium dihydroxide</td>
<td>Fish</td>
<td>LC50</td>
<td>96 h</td>
<td>50.6 mg/L</td>
</tr>
<tr>
<td>calcium dihydroxide</td>
<td>Algae</td>
<td>EC50</td>
<td>72 h</td>
<td>184.57 mg/L</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

<table>
<thead>
<tr>
<th>Substance</th>
<th>Biodegradability</th>
<th>Test</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 12.3. Bioaccumulative potential

<table>
<thead>
<tr>
<th>Substance</th>
<th>Potential bioaccumulation</th>
<th>LogPow</th>
<th>BFC</th>
</tr>
</thead>
<tbody>
<tr>
<td>No data available</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 12.4. Mobility in soil

No data available

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

No data available

#### 12.6. Other adverse effects

No special

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

The product is covered by the regulations on dangerous waste.

<table>
<thead>
<tr>
<th>Waste</th>
<th>EWC code</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>101399</td>
</tr>
</tbody>
</table>

#### Specific labelling

- 

#### Contaminated packing

Packaging which contains leftovers from the product must be disposed of in the same way as the product.

### SECTION 14: Transport information

Not listed as dangerous goods under ADR and IMDG regulations.
According to EC-Regulation 1907/2006 (REACH)

**14.1 – 14.4**
ADR/RID
- 14.1. UN number
- 14.2. UN proper shipping name
- 14.3. Transport hazard class(es)
- 14.4. Packing group
- Notes
- Tunnel restriction code

IMDG
- UN-no.
- Proper Shipping Name
- Class
- PG*
- EmS
- MP**
- Hazardous constituent

IATA/ICAO
- UN-no.
- Proper Shipping Name
- Class
- PG*

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
No data available
(* ) Packing group
(**) Marine pollutant

**SECTION 15: Regulatory information**

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

**Restrictions for application**
People under the age of 18 must not be exposed to this product cf. Council Directive 94/33/EC.

**Demands for specific education**

**Additional information**

**Sources**
- EC Regulation 1272/2008 (CLP).

15.2. Chemical safety assessment
No

**SECTION 16: Other information**

Full text of H-phrases as mentioned in section 3
According to EC-Regulation 1907/2006 (REACH)

H315 - Causes skin irritation.
H318 - Causes serious eye damage.
H335 - May cause respiratory irritation.

The full text of identified uses as mentioned in section 1
- 

Other symbols mentioned in section 2
- 

Other
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification. The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
A change (in proportion to the last essential change (first cipher in SDS version)) is marked with a blue triangle.

The safety data sheet is validated by
PIPE/CHYMEIA

Date of last essential change
(First cipher in SDS version)
- 

Date of last minor change
(Last cipher in SDS version)
-