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

1.1 Product identifier
Trade name: **Betonamit**

1.2 Relevant identified uses of the substance or mixture and uses advised against
Application of the substance / the mixture
Concrete/cement - additive
Expansive cracking agent

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
Manufacturer:
KUBATEC BMT AG
Widaustrasse 3
FL-9491 Ruggell
Principality of Liechtenstein

Further information obtainable from: info@kubatec.li

1.4 Emergency telephone number:
Tox Info Suisse
eergency number 24h:
+41 (0)44 251 51 51 (from abroad) Short-No. 145 (from Switzerland only)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008

- **Eye Dam. 1 H318 Causes serious eye damage.**

- **Skin Irrit. 2 H315 Causes skin irritation.**

- **STOT SE 3 H335 May cause respiratory irritation.**

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008
The product is classified and labelled according to the CLP regulation.

**Hazard pictograms**

- GHS05
- GHS07

**Signal word** Danger

**Hazard-determining components of labelling:**
calcium oxide
Cement, portland, chemicals

(Contd. on page 2)
Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 25.06.2015
Revision: 24.06.2015

Trade name: Betonamit

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

Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 Immediately call a POISON CENTER/doctor.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.

2.3 Other hazards
Results of PBT and vPvB assessment
PBT: According to current knowledge, the product contains no PBT.
vPvB: According to current knowledge, the product contains no vPvB.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterization:
Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

| CAS: 1305-78-8 | calcium oxide | 50-100% |
| EINECS: 215-138-9 | | |
| Reg.nr.: 01-2119475325-36-xxxx | | |
| Cement, portland, chemicals | 2.5-5% |

SVHC According to current knowledge no SVHC contained.

Additional information: For the wording of the listed risk phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures
After inhalation: In case of unconsciousness place patient stably in side position for transportation.
After skin contact: Wash with plenty of soap and water.
After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

Information for doctor: Show this product label or this MSDS

4.3 Indication of any immediate medical attention and special treatment needed
No further relevant information available.

(Contd. on page 3)
SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing agents:
CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture
No further relevant information available.

5.3 Advice for firefighters
Protective equipment: No special measures required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation

6.2 Environmental precautions: No special measures required.

6.3 Methods and material for containment and cleaning up: Ensure adequate ventilation.

6.4 Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
No special measures required.
Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities
Storage
Requirements to be met by storerooms and receptacles: Unsuitable material for receptacle: aluminium.
Information about storage in one common storage facility: Not required.
Further information about storage conditions:
Store in dry conditions.
Keep container tightly sealed.

7.3 Specific end use(s)
No further relevant information available.

SECTION 8: Exposure controls/personal protection

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters
Ingredients with limit values that require monitoring at the workplace:

<table>
<thead>
<tr>
<th>Substance</th>
<th>MAK (Switzerland)</th>
<th>Short-term value</th>
<th>Long-term value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1305-78-8 calcium oxide</td>
<td>Short-term value: 2 e mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Long-term value: 2 e mg/m³</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SSC;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
8.2 Exposure controls

Personal protective equipment:

**General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Avoid contact with the eyes and skin.

**Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

**Protection of hands:**

![Protective gloves]

**Material of gloves**
Protective gloves must be compliant with the specifications of EU Directive 89/686/EEC and be in accordance with the standard EN374. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

**Eye protection:**

![Tightly sealed goggles]

Limitation and supervision of exposure into the environment
Do not allow to enter sewers/ surface or ground water.

**SECTION 9: Physical and chemical properties**

9.1 Information on basic physical and chemical properties

**General Information**

**Appearance:**
- **Form:** Solid
- **Colour:** Grey
- **Odour:** Odourless
- **Odour threshold:** Not determined.
**Trade name:** Betonamit

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<table>
<thead>
<tr>
<th><strong>pH-value (10 g/l) at 20 °C:</strong></th>
<th>&gt;13</th>
</tr>
</thead>
</table>

**Change in condition**
- **Melting point/Melting range:** Not determined.
- **Boiling point/Boiling range:** Not determined.

**Flash point:** Not determined.

**Flammability (solid, gaseous):** Not determined.

**Ignition temperature:**
- **Decomposition temperature:** Not determined.

**Self-igniting:** Product is not self-igniting.

**Danger of explosion:** Product does not present an explosion hazard.

**Explosion limits:**
- **Lower:** Not determined.
- **Upper:** Not determined.

**Oxidising properties**
- Not applicable.

**Vapour pressure:**
- Not applicable.

**Density:**
- Not determined.
- **Relative density**
- Not applicable.
- **Vapour density**
- Not applicable.
- **Evaporation rate**
- Not applicable.

**Solubility in / Miscibility with water:** Soluble.

**Partition coefficient (n-octanol/water):** Not applicable.

**Viscosity:**
- **Dynamic:** Not applicable.
- **Kinematic:** Not applicable.

**Solvent content:**
- **VOC (EC)**
- Not determined.
- **VOCV (CH)**
- Not determined.

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**SECTION 10: Stability and reactivity**

**10.1 Reactivity** No further relevant information available.

**10.2 Chemical stability** No decomposition if used according to specifications.

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**10.3 Possibility of hazardous reactions**
Reacts with water and acids.
Corrodes aluminium.

**10.4 Conditions to avoid:** No further relevant information available.
SECTION 11: Toxicological information

11.1 Information on toxicological effects
Acute toxicity: Based on the ingredients not classified as acute toxic.

LD/LC50 values relevant for classification:
Based on the ingredients, the product is not classified with regard to acute toxicity.

Primary irritant effect:
Skin corrosion/irritation Causes skin irritation.
Serious eye damage/irritation Strong irritant with the danger of severe eye injury.
Respiratory or skin sensitisation Sensitisation possible through skin contact.
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) No CMR effects known.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity: Based on the ingredients not classified as harmful for the environment.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

12.5 Results of PBT and vPvB assessment
PBT: According to current knowledge, the product contains no PBT.

vPvB: According to current knowledge, the product contains no vPvB.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Recommendation: Do not allow product to reach ground water, water course or sewage system.

European waste catalogue
The Swiss waste code is identical.

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 00 00</td>
<td>WASTES FROM THERMAL PROCESSES</td>
</tr>
<tr>
<td>10 13 00</td>
<td>wastes from manufacture of cement, lime and plaster and articles and products made from them</td>
</tr>
<tr>
<td>10 13 14</td>
<td>waste concrete and concrete sludge</td>
</tr>
</tbody>
</table>

Uncleaned packaging
Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.
SECTION 14: Transport information

14.1 UN-Number
ADR, ADN, IMDG, IATA: Void

14.2 UN proper shipping name
ADR, ADN, IMDG, IATA: Void

14.3 Transport hazard class(es)
ADR, ADN, IMDG, IATA: Void

14.4 Packing group
ADR, IMDG, IATA: Void

14.5 Environmental hazards:
Marine pollutant: No

14.6 Special precautions for user
Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable.

UN "Model Regulation": -

SECTION 15: Regulatory information

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

National regulations:
Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous to water.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

The information and data given in this safety data sheet are based on the current state of our knowledge at the publishing date indicated in this safety data sheet. The safety data sheet shall give you indications for the safe storage, handling, transport and disposal of the mentioned product. The information and data do not apply for any other products than the one declared in this safety data sheet. The information and data in this safety data sheet provides the safety requirements, but do not represent an assurance of product specifications.

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

Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
Trade name: Betonamit

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweis (Swiss Ordinance on volatile organic compounds)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3