

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 25.06.2015

Revision: 24.06.2015

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
emergency 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



corrosion

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

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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 EINECS: 215-138-9 Reg.nr.: 01-2119475325-36-xxxx	calcium oxide ☞ Eye Dam. 1, H318; ☠ Skin Irrit. 2, H315; STOT SE 3, H335	50-100%
	Cement, portland, chemicals ☞ Eye Dam. 1, H318; ☠ Skin Irrit. 2, H315; STOT SE 3, H335	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.

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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:

1305-78-8 calcium oxide

MAK (Switzerland)	Short-term value: 2 e mg/m ³ Long-term value: 2 e mg/m ³ SSc;
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AGW (Germany)	Long-term value: 1E mg/m ³ 2(l);Y, DFG
Cement, portland, chemicals	
MAK (Switzerland)	Long-term value: 5 e mg/m ³ S;Staub
AGW (Germany)	Long-term value: 5 E mg/m ³ DFG

Additional information: The lists valid during the making were used as basis.

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.

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pH-value (10 g/l) at 20 °C:	>13
Change in condition	
<i>Melting point/Melting range:</i>	Not determined.
<i>Boiling point/Boiling range:</i>	Not determined.
Flash point:	Not determined.
Flammability (solid, gaseous):	Not determined.
Ignition temperature:	
<i>Decomposition temperature:</i>	Not determined.
Self-igniting:	Product is not self-igniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
<i>Lower:</i>	Not determined.
<i>Upper:</i>	Not determined.
Oxidising properties	Not applicable.
Vapour pressure:	Not applicable.
Density:	Not determined.
<i>Relative density</i>	Not applicable.
<i>Vapour density</i>	Not applicable.
<i>Evaporation rate</i>	Not applicable.
Solubility in / Miscibility with water:	Soluble.
Partition coefficient (n-octanol/water):	Not applicable.
Viscosity:	
<i>Dynamic:</i>	Not applicable.
<i>Kinematic:</i>	Not applicable.
Solvent content:	
<i>VOC (EC)</i>	Not determined.
<i>VOCV (CH)</i>	Not determined.
9.2 Other information	No further relevant information available.

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.

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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 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.

10 00 00	WASTES FROM THERMAL PROCESSES
10 13 00	wastes from manufacture of cement, lime and plaster and articles and products made from them
10 13 14	waste concrete and concrete sludge

Uncleaned packaging**Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agents:** Water, if necessary together with cleansing agents.

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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 <i>Class</i>	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:

Waterhazard 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)

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VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (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

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