

# Material Safety Data Sheet



Date: 09.01.02

## 1. Identification of the Chemical and of the Manufacturer

- 1.1 Trade name **BETONAMIT non-explosive cracking agent**
- 1.2 Identification of the manufacturer / importer, other undertaking
- 1.2.1 Manufacturer / importer / other undertaking **KUBATEC AG**  
Street / P.O. Box **Industriestr. 105 f / PF 268**  
Postcode and post office **FL-9491 Ruggell**  
**Liechtenstein / Europe**
- Telephone No. **++423 375 78 78**
- Telefax **++423 373 53 81**

## 2. Composition and information on ingredients

- 2.1 The **ecologically beneficial** product **BETONAMIT** only has a controlled reaction by trading a defined quantity of water. The increase of pressure only results from/after pouring the mixture into pre-drilled bore holes in rock or concrete. The product is packed in dry, shock resistant small plastic containers and is **not dangerous** for transportation and therefore the warning symbols and R-Phrases are only of limited requirement.

### 2.2 Description

2.2.1	CAS-No	Name of the ingredient	Warning symbol	R-phrases
	1305-78-8	Calciumoxide	X <sub>1</sub>	41
	7631-86-9	Siliciumdioxide		
	1344-28-1	Aluminiumoxide		
	1309-48-4	Magnesium-Oxyde		
	1655-29-4	Sodium salts of naphtalene-sulphonic acids		

ca. 75% (for Calciumoxide, Siliciumdioxide, Aluminiumoxide)  
ca. 25% (for Magnesium-Oxyde, Sodium salts of naphtalene-sulphonic acids)

## 3. Hazards Identification

non-hazardous for environment. The product contains unhydrated lime and becomes reactive and corrosive in connection with water.

## 4. First aid measures

- 4.1 Skin wash immediately with cool water
- 4.2 Splashes in eyes wash immediately with cool water  
Consult an eye specialist

## 5. Fire-fighting measures

- 5.1 Suitable extinguishing media can be removed  
Excess rinsed with water



<b>6.</b>	<b>Accidental release measures</b>				
6.1	Personal precautions			Eye protection / rubber gloves	
6.2	Environment precautions			not ecologically harmful	
6.3	Methods of cleaning up			can be mechanically removed Excess rinsed with water	
<b>7.</b>	<b>Handling and storage</b>				
7.1	Handling			Transport in closed containers	
7.2	Storage			To be stored in dry and cool condition with container always closed	
<b>8.</b>	<b>Exposure controls / Personal protection</b>				
8.1	Technical measures for exposure controls:				
8.1.1	CAS-No.	Name of ingredient	Mode	Value	Unit
	1305-78-8	Calciumoxide	MAK	5	mg/m <sup>3</sup>
8.2	Personal protective equipment				
8.2.1	Special instructions for protection and hygiene				
8.2.2	Respiratory protection			none	
8.2.3	Hand protection			rubber gloves	
8.2.4	Eye protection			protective goggles	
8.2.5	Skin protection			rubber gloves	
<b>9.</b>	<b>Physical and chemical properties</b>				
9.1	Form: powder	9.2 colour: white/grey	9.3 odour: none		
				<u>Value/Range</u>	<u>Unit</u>
9.4	Change in physical state			1'000	°C
9.5	Density			3.1	g/cm <sup>3</sup>
9.6	Bulk density			ca. 900	kg/cm <sup>3</sup>
9.7	Solubility in water			none-powder	g/l
9.8	pH-value (at 10 g/l H <sub>2</sub> O)			13	g/l
9.9	Hazardous reactions			When mixed with water, the product forms Calciumhydroxide under strong temperature development	
9.10	Further information			unhydrated lime	
<b>10.</b>	<b>Stability and reactivity</b>				
10.1	Conditions to avoid			Store dry and cool	
10.2	Materials to avoid			Contact with water before application. When mixed with water the product forms Calciumhydroxide under strong temperature development.	




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**11. Toxicological information**


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**12. Ecological information**
**12.1 Persistence in the environment**

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|--------|----------------------|---|
| 12.1.1 | Biodegradation       | The product does not present a danger to fish, plants or other aquatic life forms |
| 12.1.2 | Chemical degradation | none  |
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**13. Disposal considerations**

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|------|---------|--------------------------------------|
| 13.1 | Product | The product is ecologically harmless |
|------|---------|--------------------------------------|
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**14. Transport information**

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|--------|-------------------|---|
| 14.1   | Land transport    | use air- and watertight containers  |
| 14.1.1 | Risk code         | none  |
| 14.2   | Sea transport     | use air- and watertight containers  |
| 14.2.1 | Risk code         | none  |
| 14.3   | Air transport     | use air- and watertight containers  |
| 14.3.1 | Risk code         | none  |
| 14.4   | Other information | This product is not dangerous for transport and therefore no special marking is necessary |
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**15. Regulatory information**
**15.1 Information on the warning label**

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|--------|--|--|
| 15.1.1 | Letter code of the warning symbol and indications of danger for the preparation: | X <sub>1</sub> / C   |
| 15.1.2 | Names of the ingredients given on the warning label                              | lime   |
| 15.1.3 | R-phrases  | R 41 Danger of serious eye-damage  |
| 15.1.4 | S-phrases  | S 2 Keep off reach of children<br>S 8 Keep containers dry<br>S 22 Avoid to inhale dust<br>S 24 Avoid contact with skin<br>S 25 Avoid contact with eyes<br>S 26 by contact with eyes firmly rinse immediately with plenty of cool water and consult an eye-specialist |
| 15.2   | National regulations   | CH BAGT Nr. 54 034   |
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**16. Other information**

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| Sources of information used in the compilation of the safety data sheet: | Known data by any chemical laboratory<br>Bruno Meyerhans Tel. + 41 21<br>Rudolf Schächle |
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