

# Mikolit<sup>®</sup> B

Safety Data Sheet (conforming to standard EU regulation art. 31 paragraph 6 1907/2006 and 453/2010)

Date of last amendment: 16 June 2014

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## 1. Product / Company Identification

<b>Company name</b>	Mikolit B
<b>Type of substance</b>	Dark green coloured, coarse-grained mixture of clays. Comprised of soda activated, calcium montmorillonite clay, in low-dust composition
<b>Application</b>	Sealing ground water, road and water constructions and in the drilling industry
<b>Producer</b>	Terratech BV, Engelenkampstraat 71 6130 AB Sittard, Nederland
<b>Email for person responsible for SDS</b>	info@terratech.nl
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<b>Contact</b>	☎ +31 46 452 6662 📠 +31 46 451 3055

## 2. Identification of the hazards

The individual components that make up the product are not dangerous in their processed form. Even the dust that may be released during processing or working is harmless, provided that the dust concentration remains below a certain limit value. For normal use, this limit value will not be exceeded.

Normal use means that the product is applied in the open air.

Inhalation of high concentrations of **respirable** quartz dust may cause lung fibrosis. The respirable fraction of the quartz contained in this product is nil (0.94% of the total amount of quartz in Mikolit300 is respirable, so this is a negligible factor). See § 3 for limit values.

Wet clay on the floor or ground may cause a risk of slipping, sliding or falling.

### 3. Composition

Conforms to RFA / DIN 51001			
	<i>Fraction</i>	<i>Limit value<sup>#</sup></i>	<i>CAS Nr</i>
SiO <sub>2</sub> (quartz)* (value in B)	53%	3 mg / m <sup>3</sup> (TGG respirable).	61790-53-2
Al <sub>2</sub> O <sub>3</sub>	19%	15.63 mg / m <sup>3</sup>	1344-28-1
Fe <sub>2</sub> O <sub>3</sub>	9%	No limit value	1345-25-1
Other ingredients	19%	Not yet defined	-
R-Phrases	-		
S-Phrases	S22 Do not inhale dust		
Exceeding the only limit value would not normally be expected to occur in the event of normal use / processing (see § 2). It has been shown through tests that dust is not released during processing. After processing the product there will be no exposure to dust.			

# All listed substances are bound in the composite product; the respirable fraction of the composite product is negligible.

\*= value in the form that it will be applied in Belgium as a result of a lack of limit values described within Dutch and European legislation.

### 3A. Composition and limit values (Gb regulations)

Conforms to RFA / DIN 51001			
	<i>Fraction</i>	<i>WEL</i>	<i>CAS Nr</i>
SiO <sub>2</sub> (quartz)*	53%	Amorphous: 6 mg / m <sup>3</sup> (Inhale, LT exp lim.) 2.4 mg / m <sup>3</sup> (Resp. LT exp lim.)	61790-53-2
Al <sub>2</sub> O <sub>3</sub>	19%	15.63 mg / m <sup>3</sup>	1344-28-1
Fe <sub>2</sub> O <sub>3</sub>	9%	No limit value	1345-25-1
Other ingredients	19%	Not yet defined	-
R-Phrases	-		
S-Phrases	S22 Do not inhale dust		

### 4. First aid measures

Eyes	Flush with clean water
Skin	Remove dust residue with soap and water
Ingestion	The product is non-toxic
Inhalation	The product is non-toxic; long-term effects cannot be excluded if exposure is prolonged and repeated (applies to all forms of dust). Therefore, inhalation of released dust particles should be avoided

### 5. Fire fighting measures

The product is not combustible, use fire extinguishers that meet environmental needs.

## 6. Measures in the event of accidental release of the product

There are no known associated risks if the product comes into contact with water; the product does not react with water, nor does it release toxic substances into water, gases or other fluids. Release of the product does not cause any environmental risk.

When removing the product, a build up of dust may be formed.

When mixed with water, the product can be slippery, so take this into account (keep area clean, quickly clean up residue).

## 7. Handling and storage

In normal use, the product is harmless, as already described. Reducing or grinding the product may result in the formation of dust. A situation such as this is not normally expected, but cannot be excluded. As with all dust-producing products and processes, it is recommended that the formation of dust (often as a result of mechanical action) is prevented as far as possible.

Effects on health (lungs) cannot be excluded in the event of prolonged and repeated exposure to the substance.

Store in a dry place and protect from sunlight.

## 8. Exposure controls / use of PPE

*The product is not dangerous. If a situation as described in § 7 (dust) occurs then negative health effects (over the long-term) can occur with regular use. In case the dust is visible or there is a clear defect in the product, (e.g. pulverising), Respiratory PPE must be used.*

*Limit value: There is no legal limit value for the product, limit values for the individual components from which the product is composed are already described under point 2. A dust analysis carried out in 2011 calculated a limit value of 8 mg / m<sup>3</sup>.*

Always:

The product is slightly alkaline and can dry the skin after prolonged and regular exposure; therefore, the use of gloves and other appropriate clothing is recommended.



Seldom:

If during the processing of the product, there is **dust visible**, a P2 or P3 quality respirator should be used.



## 9. Physical and chemical properties

<b>Appearance</b>	Free granules of 2-12 mm, depending on humidity, pasty properties
<b>Solubility in water</b>	The product is not soluble in water
<b>pH value</b>	10.5
<b>Odour</b>	None
<b>Colour</b>	Green
<b>Density (compacted)</b>	2600 kg / m <sup>3</sup>
<b>Loose bulk density</b>	1000 kg / m <sup>3</sup>
<b>Flash point</b>	Not flammable
<b>Explosive limits</b>	Not flammable
<b>Vapour pressure</b>	N/A

## 10. Stability and reactivity

The product is chemically stable and inert. The product may come into contact with any other materials and products.

## 11. Toxicological information

<b>Acute risks</b>	None
<b>Chronic risks</b>	Lung complaints Irritation (dehydration) of the skin

## 12. Ecological information

Mikolit B is the product of processing a naturally-occurring substance (clay product). The substance will cause no adverse environmental effects. Adverse effects on the environment are not expected due to the nature and origin of the substance.

### 13. Instructions for disposal

Remnants of the product can be disposed of as a harmless solid substance in compliance with local regulations.

If dust is formed during removal, it is advisable to remove this with a vacuum. Release of dust is not expected in normal use. Any product that has been exposed to sunlight for a long period, in combination with any mechanical action, can reduce a portion of the product to dust.



**Packaging:**

Packaging from your own waste processors, e.g. that offered for recycling plastic, can be used.

### 14. Information related to transportation

Exposure to sunlight and rain must be avoided. Therefore, the load must be covered.

### 15. Regulatory information

According to EU regulations, the product is not classified as hazardous.

The user is advised to consult national rules as they may differ from EU legislation in this area.

### 16. Other information

The user is responsible for checking the completeness of this information and to check national legislation. National legislation may be more rigorous.

If Mikolit B is crushed, there is a small chance that dangerous amounts of dust may be released. Grinding Mikolit B will not be considered as an intended use of the product. The producer accepts no liability for any (potential) damage to health resulting from exposure to the product as a result of grinding or after grinding.