

Mikolit[®] 00

Safety Data Sheet (conforming to standard EU regulation art. 31 paragraph 6 1907/2006, 453/2010) and also regulation (EG) nr. 1272/2008 of the European Parliament and the Council)

Date of last amendment: 12 March 2020

Date of issue: 30 April 2020

1. Product / Company Identification

Product name	Mikolit 00
Type of substance	Gray coloured, coarse-grained mixture of clays. Comprised of soda activated, calcium montmorillonite clay, in low-dust composition
Application	Sealing ground water, road and water constructions and in the drilling industry
Producer	Terratech BV, Engelenkampstraat 71 6130 AB Sittard, Nederland
Email for person responsible for SDS	info@terratech.nl
Contact person	Mr J. Kollee
Contact	☎ +31 46 452 6662

2. Identification of the hazards

In accordance with regulation EU 1272/2008:

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 limit value exceeding concentrations **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 Mikolit 00 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. Therefore, ensure proper house-keeping. Clean up spills regularly (daily).

3. Composition

Conforms to RFA / DIN 51001			
	<i>Fraction</i>	<i>Limit value[#]</i>	<i>CAS Nr</i>
SiO ₂ (quartz)* (value in B)	64%	3 mg / m ³ (TGG respirable).	61790-53-2
Al ₂ O ₃	18%	15.63 mg / m ³	1344-28-1
Fe ₂ O ₃	3%	No limit value	1345-25-1
Other ingredients	15%	Not yet defined	-
H-Phrases	-		
P-Phrases	P260: 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. The measured values are far below the limit values. 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 ₂ (quartz)*	64%	Amorphous: 6 mg / m ³ (Inhale, LT exp lim.) 2.4 mg / m ³ (Resp. LT exp lim.)	61790-53-2
Al ₂ O ₃	18%	15.63 mg / m ³	1344-28-1
Fe ₂ O ₃	3%	No limit value	1345-25-1
Other ingredients	15%	Not yet defined	-
H-Phrases	-		
P-Phrases	P260 Do not inhale dust		

2. First aid measures

Eyes	Flush with clean water
Skin	Remove dust residue with soap and water, moisturize skin with nourishing and moisturizing cream.
Ingestion	The product is non-toxic, victim can experience a bad taste.
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 other 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 daily, 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 covered by a standard purpose, but use as such cannot be excluded. As with all dust-producing products and processes, it is strongly recommended that the formation of dust 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 / m³.

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.



<p>Seldom: If during the processing of the product, there is dust visible, a P2 or P3 quality respirator should be used.</p>	
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9. Physical and chemical properties

Appearance	Free granules of 2-12 mm, depending on humidity, pasty properties
Solubility in water	The product is not soluble in water
pH value	10.5
Odour	None
Colour	Grey
Density (compacted)	2600 kg / m ³
Loose bulk density	1100 kg / m ³
Flash point	Not flammable
Explosive limits	Not flammable
Vapour pressure	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

Acute risks	None
Chronic risks	Lung complaints Irritation (dehydration) of the skin

12. Ecological information

Mikolit 00 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. Based on this fact, the manufacturer has not carried out any further chemical safety analysis on the product.

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.

This information is based on legislation and regulations in the Netherlands that are derived from European legislation and regulations.

If Mikolit 00 is crushed, there is a small chance that dangerous amounts of dust may be released. Grinding Mikolit 00 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.