PRODUCT SAFETY DATA SHEET

This generic SDS is provided by MGS Ltd to give information to assist with material handling of the products listed which are conforming to standard EU regulation art. 31 paragraph 6 1907/2006, 453/2010) and regulation (EG) nr. 1272/2008 of the European Parliament and the Council.

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SECTION 1: Identification of the substance / mixture and of the company / undertaking	
1.1 Product Identifier	
Product Name:	**Mikolit B**
Synonyms / Trade Name:	Mikolit B
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Recommended Use:	Borehole sealing. Isolating instrumentation and sampling zones
Restriction on Use:	None identified
Physical Properties:	Brown / green coloured, coarse-grained mixture of clays. Comprised of soda activated, calcium montmorillonite clay, in low-dust composition.
1.3 Details of the supplier of the Safety Data Sheet	
Name:	MGS Ltd
Address:	Rougham Industrial Estate, Bury St Edmunds, IP30 9ND
Country:	UK
Phone N°:	+44 1359 271167
Email:	info@mgs.co.uk
Website:	www.mgs.co.uk
1.4 Emergency telephone number	
Emergency telephone at the company:	+44 7738 197 517
Available outside office hours:	Yes
Language of the phone service:	English
E-mail of competent person responsible:	darren.portway@mgs.co.uk
National contact:	Darren Portway

SECTION 2: Hazard Identification

2.1 Classification of the substance or mixture

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 (use according to regulation), 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 B is respirable, so this is a negligible factor). See Section 3 for limit values.

Wet clay on the floor or ground may cause a risk of slipping, sliding, or falling. Therefore, ensure proper housekeeping. Clean up spills regularly (daily).

2.2 Label elements

None.

2.3 Other hazards

None.

SECTION 3: Composition / Information on Ingredients

3.1 Substances

Conforms to RFA / DIN 51001

	Fraction	Limit value#	CAS Nr
SiO2(quartz)	58%	0,075 mg / m3 (TGG respirable).	61790-53-2
Al2O3	19%	15.63 mg / m^3	1344-28-1
Fe2O3	11%	No limit value	1345-25-1
Other ingredients	12%	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 Section 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.

Conforms to RFA / DIN 51001

	Fraction	WEL	CAS Nr
SiO2(quartz)	58%	Amorphous: 6 mg / m3 (Inhale, LT exp lim.) 2.4 mg / m3 (Resp. LT exp lim.)	61790-53-2
Al2O3	19%	15.63 mg / m^3	1344-28-1
Fe2O3	11%	No limit value	1345-25-1
Other ingredients	12%	Not yet defined	-
H-Phrases	-		
P-Phrases	P260: Do not inhale dust		

3.2 Mixtures

Not applicable.

SECTION 4: First Aid Measures

4.1 Description of 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.

4.2 Most important symptoms and effects, both acute and delayed

None.

4.3 Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Fire Fighting Measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

None.

5.3 Advice for fire fighters

None.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures

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.

6.2 Environmental precautions

Release of the product does not cause any environmental risk. When removing the product, a build-up of dust may be formed.

6.3 Methods and material for containment and cleaning up

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

6.4 Reference to other sections

None.

SECTION 7: Handling & Storage

7.1 Precautions for safe handling

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.

7.2 Conditions for safe storage, including any incompatibilities

Store in a dry place and protect from sunlight.

7.3 Specific end use(s)

Borehole sealing. Isolating instrumentation and sampling zones.

SECTION 8: Exposure Controls / Personal Protection

8.1 Control parameters

The product is not dangerous. If a situation as described in Section 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.

8.2 Exposure controls

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

SECTION 9: Physical and Chemical Properties

9.1 Information on basic 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:	Brown / Green
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

9.2 Other information

None.

SECTION 10: Stability and Reactivity

10.1 Reactivity

The product may come into contact with any other materials and products.

10.2 Chemical stability

The product is chemically stable and inert.

10.3 Possibility of hazardous reactions

None.

10.4 Conditions to avoid

None.

10.5 Incompatible materials

None.

10.6 Hazardous decomposition products

None.

SECTION 11: Toxicological Information

11.1 Information on toxicological effects

Acute Risks:	None
Chronic Risks:	Lung complaints. Irritation (dehydration of the skin).

SECTION 12: Ecological Information

12.1 Toxicity

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.

12.2 Persistence and degradability

None.

12.3 Bio accumulative potential

None.

12.4 Mobility in soil

None.

12.5 Results of PBT and vPvB assessment

None.

12.6 Other adverse effects

None.

SECTION 13: Disposal Considerations

13.1 Waste treatment methods

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

SECTION 14: Transportation Information

14.1 UN number

Not applicable.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not applicable.

14.6 Special precaution for user

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

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

SECTION 15: Regulatory Information

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

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.

15.2 Chemical safety assessment

Not applicable.

SECTION 16: Other Information

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.

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

Disclaimer:
This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability of completeness. It is the user's responsibility to satisfy themselves as to the suitability of such information for their own particular use.