

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 has been drafted in accordance with COMMISSION REGULATION (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.



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SECTION 1: Identification of the substance / mixture and of the company / undertaking

1.1 Product Identifier

Product Name:	BERKBENT 163 Bentonite Powder
Chemical Name:	Bentonite
Cas No:	1302-78-9
EC No:	215-108-5
Registration No:	Exempt

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended Use:	Drilling and civil engineering applications
Restriction on Use:	Uses other than those recommended.

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
E-mail:	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

The product is not classified as hazardous within the meaning of Regulation (EU) No 1272/2008.

2.2 Label elements

None

2.3 Other hazards

The product may have the following additional risks: Dustiness.

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Doc No:	HS8 C42-024
	HS8 C42-025
Version:	MGS 4/ JS
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SECTION 3: Composition / Information on Ingredients

3.1 Substances

Chemical Name: Bentonite
CAS No: 1302-78-9
EC No: 215-108-5
Registration No: Exempt

Impurities or additives that affect the classification:

Identifiers	Name	Concentrate	(*) Classification – Regulation (EC) No 1272 / 2008	
			Classification	Specific concentration limit
CAS No: 14808-60-7 EN No: 238-878-4	(1) Quartz (SiO ₂)	0 – 1%	-	-

3.2 Mixtures

Not applicable

SECTION 4: First Aid Measures

4.1 Description of first aid measures

Due to the composition and type of the substances present in the product, no particular warnings are necessary.

Inhalation

Take the victim into open air; keep them warm and calm. If breathing is irregular or stops, perform artificial respiration.

Eye contact

Remove contact lenses, if present and if it is easy to do. Wash eyes with plenty of clean and cool water for at least 10 minutes while pulling eyelids up and seek medical assistance. Don't let the person rub the affected eye.

Skin contact

Remove contaminated clothing.

Ingestion

Keep calm. NEVER induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

No known acute or delayed effects from exposure to the product.

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Doc No:	HS8 C42-024
	HS8 C42-025
Version:	MGS 4/ JS
Date:	October 2023
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4.3 Indication of any immediate medical attention and special treatment needed

In case of doubt or when symptoms of feeling unwell persist, get medical attention. Never administer anything orally to persons who are unconscious.

SECTION 5: Fire Fighting Measures

5.1 Extinguishing media

Suitable extinguishing media

Extinguisher powder or CO₂. In case of more serious fires, also alcohol-resistant foam, and water spray.

Unsuitable extinguishing media:

Do not use a direct stream of water to extinguish. In the presence of electrical voltage, you cannot use water or foam as extinguishing media.

5.2 Special hazards arising from the substance or mixture

Fire can cause thick, black smoke. As a result of thermal decomposition, dangerous products can form carbon monoxide, carbon dioxide. Exposure to combustion or decomposition products can be harmful to your health.

5.3 Advice for fire fighters

Use water to cool tanks, cisterns, or containers close to the heat source or fire. Take wind direction into account.

Fire protection equipment.

According to the size of the fire, it may be necessary to use protective suits against the heat, individual breathing equipment, gloves, protective goggles or facemasks, and boots.

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment, and emergency procedures

For exposure control and individual protection measures, see section 8.

6.2 Environmental precautions

Product not classified as hazardous for the environment, avoid spillage as much as possible.

6.3 Methods and material for containment and cleaning up

The contaminated area should be immediately cleaned with an appropriate de-contaminator. Pour the decontaminator on the remains in an opened container and let it act until no further reaction is produced.

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Doc No:	HS8 C42-024
	HS8 C42-025
Version:	MGS 4/ JS
Date:	October 2023
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6.4 Reference to other sections

For exposure control and individual protection measures, see section 8.
For later elimination of waste, follow the recommendations under section 13.

SECTION 7: Handling & Storage

7.1 Precautions for safe handling

The product does not require special handling measures, the following general measures are recommended.
For personal protection, see section 8.

In the application area, smoking, eating, and drinking must be prohibited. Follow legislation on occupational health and safety.

Never use pressure to empty the containers. They are not pressure-resistant containers. Keep the product in containers made of a material identical to the original.

7.2 Conditions for safe storage, including any incompatibilities

The product does not require special storage measures.

As general storage measures, sources of heat, radiation, electricity and contact with food should be avoided. Keep away from oxidising agents and from highly acidic or alkaline materials.

Store the containers between 5 and 35° C, in a dry and well-ventilated place. Store according to local legislation. Observe indications on the label.

The product is not affected by Directive 2012/18/EU (SEVESO III).

7.3 Specific end use(s)

Rheological Additive
Absorbent
Binder
Water retention
Retention aid
Sealant
Technological Additive for Animal Feed

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Doc No:	HS8 C42-024
	HS8 C42-025
Version:	MGS 4/ JS
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SECTION 8: Exposure Controls / Personal Protection

8.1 Control parameters

Name	CAS No.	Country	Limit value	ppm	mg/m ³
Quartz (SiO ₂)	14808-60-7	European Union [1]	Eight hours		0,1
			Short term		
		United Kingdom [2]	Eight hours		0,1
			Short term		
		Éire [3]	Eight hours		0,1
			Short term		
		United States [4] (Cal/OSHA)	Eight hours		0.05 respirable dust, 0.3 (Total Dust)
			Short term		
		United States [5] (NIOSH)	Eight hours		Potential occupational carcinogens 0.05 respirable dust, lowest feasible concentration (LFC).
			Short term		
		United States [6] (OSHA)	Eight hours		(Total Dust) 30 mg/m ³ /(%SiO ₂ +2)
			Short term		

1. According both Binding Occupational Exposure Limits (BOELVs) and Indicative Occupational Exposure Limits (IOELVs) adopted by Scientific Committee for Occupational Exposure Limits to Chemical Agents (SCOEL).
2. According Limit Value (IOELV) list in 2nd Indicative Occupational Exposure adopted by Health and Safety Executive.
3. According Code of Practice for the Safety, Health, and Welfare at Work (Chemicals Agents) Regulations adopted by Health and Safety Authority (HSA).
4. California Division of Occupational Safety and Health (Cal/OSHA) Permissible Exposure Limits (PELs).
5. According Compendium of Policy Documents and Statements adopted by National Institute for Occupational Safety and Health (NIOSH).
6. According Occupational Health and Safety Standards and US Code of Federal Regulations adopted by US
7. Occupational Safety and Health Administration (OSHA).

The product does NOT contain substances with Biological Limit Values.

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust, respirable quartz, respirable cristobalite).

A European Binding OEL (Occupational Exposure Limit) for respirable crystalline silica dust is set at 0.1 mg/m³ in the Directive (EU) 2017/2398, measured as an 8-hour TWA (Time Weighted Average)

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Doc No:	HS8 C42-024
	HS8 C42-025
Version:	MGS 4/ JS
Date:	October 2023
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8.2 Exposure controls

Measures of a technical nature:

Provide adequate ventilation, which can be achieved by using good local exhaust-ventilation and a good general exhaust system.

Concentration: 100 %

Uses: This material should only be used for industrial purposes

Breathing protection:

PPE:	Particle filter mask
Characteristics:	«CE» marking, category III. Made of filtering material, it covers nose, mouth, and chin.
EN Standards:	EN149
Maintenance:	Check for any tears, defects, etc. before use. Since it is disposable individual protection equipment, it should be replaced after use.
Observations:	Does not protect worker unless properly adjusted and face fitted. Follow the manufacturer's instructions regarding suitable use of the equipment.
Filter Type Needed:	P2



Hand protection:

PPE:	Protective gloves
Characteristics:	«CE» marking, category II.
EN Standards:	EN 374-1, EN 374-2, EN 374-3, EN 420
Maintenance:	Keep in a dry place, away from any source of heat, and avoid exposure to sunlight as much as possible.
Observations:	Gloves should be of the appropriate size and fit the user's hand well, not being too loose or too tight. Always use with clean, dry hands.
Type Needed:	PVC (polyvinyl chloride). Breakthrough time 48 mins. Material thickness 0.35mm.



Eye protection:

PPE:	Protective goggles against particle impacts.
Characteristics:	«CE» marking, category II. Eye protector against dust and smoke.
EN Standards:	EN 165, EN 166, EN 167, EN 168
Maintenance:	Visibility through lenses should be ideal. Therefore, these parts should be cleaned daily. Protectors should be disinfected periodically following the manufacturer's instructions.
Observations:	Some signs of wear and tear include yellow colouring of lenses, superficial scratching of the lenses, scraping etc.
Type Needed:	Tight-fitting, eye enclosing.



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Doc No:	HS8 C42-024
	HS8 C42-025
Version:	MGS 4/ JS
Date:	October 2023
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Skin protection:

PPE:	Work footwear.	
Characteristics:	«CE» marking, category II. EN ISO 13287	
EN Standards:	EN 20347	
Maintenance:	This product adapts to the first user's foot shape. That is why, as well as for hygienic reasons, it should not be used by other people.	
Observations:	Work footwear for professional use includes protection elements aimed at protecting users against any injury resulting from an accident.	
Type Needed:	Relevant to the conditions used in.	

SECTION 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Powder
Colour: Cream to greyish / white Odour: Odourless
Odour threshold: N.A./N.A. pH:10-11 (10%)
Melting point:>1550 °C Boiling Point: N.A./N.A.
Flash point: N.A./N.A.
Evaporation rate: N.A./N.A.
In flammability (solid, gas): Non-flammable
Lower Explosive Limit: N.A./N.A.
Upper Explosive Limit:
N.A./N.A. Vapour pressure:
N.A./N.A. Vapour density:
N.A./N.A. Relative density:2.7
Solubility: Insoluble
Lip solubility: Insoluble
Hydro solubility: Insoluble
Partition coefficient (n-octanol/water):
N.A./N.A. Auto-ignition temperature:
N.A./N.A. Decomposition temperature:
N.A./N.A. Viscosity: N.A./N.A.
Explosive properties: Non explosive
Oxidizing properties: N.A./N.A.
N.A./N.A.= Not Available/Not Applicable due to the nature of the product

9.2 Other information

Pour point: N.A./N.A.
Blink: N.A./N.A.
Kinematic viscosity: N.A./N.A.
N.A./N.A.= Not Available/Not Applicable due to the nature of the product

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Doc No:	HS8 C42-024
	HS8 C42-025
Version:	MGS 4/ JS
Date:	October 2023
Review Date:	October 2024

SECTION 10: Stability and Reactivity

10.1 Reactivity

The product does not present hazards by their reactivity.

10.2 Chemical stability

Unstable in contact with: **Acids.**

10.3 Possibility of hazardous reactions

Neutralization can occur on contact with acids.

10.4 Conditions to avoid

Avoid contact with acids.

10.5 Incompatible materials

Avoid the following materials: Acids.

10.6 Hazardous decomposition products

No decomposition if used for the intended uses.

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Doc No:	HS8 C42-024
	HS8 C42-025
Version:	MGS 4/ JS
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SECTION 11: Toxicological Information

11.1 Information on toxicological effects

There is no tested data available on the product. Repeated or prolonged contact with the product can cause the elimination of oil from the skin, giving rise to non-allergic contact dermatitis and absorption of the product through the skin.

Splatters in the eyes can cause irritation and reversible damage.

- (a) acute toxicity
Not conclusive data for classification.
- (b) skin corrosion/irritation
Not conclusive data for classification.
- (c) serious eye damage/irritation.
Not conclusive data for classification.
- (d) respiratory or skin sensitisation
Not conclusive data for classification.
- (e) germ cell mutagenicity
Not conclusive data for classification.
- (f) carcinogenicity
Not conclusive data for classification.
- (g) reproductive toxicity
Not conclusive data for classification.
- (h) STOT-single exposure
Not conclusive data for classification.
- (i) STOT-repeated exposure
Not conclusive data for classification.
- (j) aspiration hazard
Not conclusive data for classification.

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Doc No:	HS8 C42-024
	HS8 C42-025
Version:	MGS 4/ JS
Date:	October 2023
Review Date:	October 2024

SECTION 12: Ecological Information

12.1 Toxicity

Name	Ecotoxicity			
	Type	Test	Kind	Value
Bentonite CAS No: 1302-78-9 EC No: 215-108-5	Fish	LC50	Fish	19000 mg/l (96 h) [1]
		[1] Sprague, J.B., and W.J. Logan 1979. Separate and Joint Toxicity to Rainbow Trout of Substances Used in Drilling Fluids for Oil Exploration. Environmental Pollution 19(4):269-281 (Author Communication Used)		
	Aquatic invertebrates			
	Aquatic plants			

12.2 Persistence and degradability

There is no information available on the degradability of the substances present.
No information is available regarding the degradability. No information is available about persistence and degradability of the product.

12.3 Bio accumulative potential

No information is available regarding the bioaccumulation.

12.4 Mobility in soil

No information is available about the mobility in soil.
The product must not be allowed to go into sewers or waterways. Prevent penetration into the ground.

12.5 Results of PBT and vPvB assessment

No information is available about the results of PBT and vPvB assessment of the product.

12.6 Other adverse effects

No information is available about other adverse effects for the environment.

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Doc No:	HS8 C42-024
	HS8 C42-025
Version:	MGS 4/ JS
Date:	October 2023
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SECTION 13: Disposal Considerations

13.1 Waste treatment methods

Do not dump into sewers or waterways. Waste and empty containers must be handled and eliminated according to current, local/national legislation.

Follow the provisions of Directive 2008/98/EC regarding waste management.

Waste classification according to the European Waste Catalogue:

01 WASTES RESULTING FROM EXPLORATION, MINING, QUARRYING, AND PHYSICAL AND CHEMICAL TREATMENT OF MINERALS

01 04 wastes from physical and chemical processing of non-metalliferous minerals 01 04 09 waste sand and clays

Method of treatment according to Directive 2008/98/EC:

Disposal

D13 Blending or mixing prior to submission to any of the operations numbered D 1 to D 12

SECTION 14: Transportation Information

Transportation is not dangerous. In case of road accident causing the product's spillage, proceed in accordance with point 6.

14.1 UN number

Transportation is not dangerous.

14.2 UN proper shipping name

ADR: Transportation is not dangerous.

IMDG: Transportation is not dangerous.

ICAO/IATA: Transportation is not dangerous.

14.3 Transport hazard class(es)

Transportation is not dangerous.

14.4 Packing group

Transportation is not dangerous.

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Doc No:	HS8 C42-024
	HS8 C42-025
Version:	MGS 4/ JS
Date:	October 2023
Review Date:	October 2024

14.5 Environmental hazards

Transportation is not dangerous.

14.6 Special precaution for user

Transportation is not dangerous.

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

Transportation is not dangerous.

SECTION 15: Regulatory Information

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

The product is not affected by the Regulation (EC) No 1005/2009 of the European Parliament and of the Council of 16 September 2009 on substances that deplete the ozone layer.

Product classification according to Annex I of Directive 2012/18/EU (SEVESO III): N/A

The product is not affected by Regulation (EU) No 528/2012 concerning the making available on the market and use of biocidal products.

The product is not affected by the procedure established Regulation (EU) No 649/2012, concerning the export and import of dangerous chemicals.

Kind of pollutant for the water (Germany): Not dangerous. (Auto classified according to the AwSV Regulations)

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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Doc No:	HS8 C42-024
	HS8 C42-025
Version:	MGS 4/ JS
Date:	October 2023
Review Date:	October 2024

SECTION 16: Other Information

It is recommended that the product only be employed for the purposes advised.

Abbreviations and acronyms used:

AwSV: Facility Regulations for handling substances that are hazardous for the water.

CEN: European Committee for Standardization.

EC50: Half maximal effective concentration.

PPE: Personal protection equipment.

LC50: Lethal concentration, 50%.

LD50: Lethal dose, 50%.

WGK: Water hazard classes.

Key literature references and sources for data:

<http://eur-lex.europa.eu/homepage.html>

<http://echa.europa.eu/>

Regulation (EU) 2015/830.

Regulation (EC) No 1907/2006.

Regulation (EU) No 1272/2008.

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.