Analysis Report



Product:	
Batch Number:	
Best Before End:	

**Bentonite Clay** 

Contouch or 000

4372707

Best Before En <u>Results:</u> September 2022

Parameter	Test specification	Result		
Identification I. Identity A	a gelatinous white precipitate is formed conforms			
2. Identity B	the apparent volume of the sediment conforms (32 ml) is not less than 22 ml after 2 hours			
3. Identity C	gives the reaction of silicates	conforms		
<b>Purity</b> 4. Alkalinity	decolourisation of bluish solution within 5 min	conforms		
5. Coarse particles	max. 0.5 %	<0.5 %		
6. Heavy metals	max. 50 ppm	< 50 ppm		
7. Loss on drying	max. 15 %	9.5 %		
8. Microbial contamination TAMC: 10 <sup>j</sup> cfu/g; max. acceptable conforms (8 limit (Ph.Eur. 2.6.12): 2000				
<b>Functionalityrelated</b> <b>characteristics</b> 9. Swelling power	see test identity B	conforms		
with 10. Sedimentation volume	water the volume of the clear supernal liquid is not greater than 2 ml after 24			
Escherichia coli		not detectable Ig		

The sample conforms to Ph. Eur. 8.8, monograph Bentonit (8.0/0467) According to the client, the monograph Bentonite in British Pharmacopeia 2017 conforms to the Ph.Eur. 8.8 monograph with regard to content. Therefore, the sample also conforms to BP 20 I 7.



### Allergen

#### **Bentonite Clay**

Dear Sir/Madam,

I can confirm, following discussions with the supplier, that the below Allergen information is correct:

ALLERGENS	Product Free From?	Listed Item on Site at manufacturer	Where applicable, is there risk of cross-contamination?
Free from Peanuts and Peanut Derivatives (including possible cross contamination)	YES	NO	NO
Free from other Nut and Nut Derivatives Almond (Amygdalus communis L.), Hazelnut (Corylus avellana), Walnut			
(Juglans regia), Cashew (Anacardium occidentale), Pecan nut (Carya illinoiesis (Wangenh.) K. Koch), Brazil nut (Bertholletia excelsa), Pistachio nut (Pistacia	YES	NO	NO
vera), Macadamia nut and Queensland nut (Macadamia ternifolia) Free from Sesame Seeds and Sesame Seed Derivatives	YES	NO	NO
Free from other Seeds and Seed Derivatives (Poppy Seeds, Cotton Seeds, Sunflower Seeds)	YES	NO	NO
Free from Milk and Milk Derivatives (including lactose)	YES	NO	NO
Free from Egg and Egg Derivatives	YES	NO	NO
Free from Cereals and Derivatives containing OR POTENTIALLY			
CONTAMINATED WITH Gluten (wheat, wheatgrass, faro, freekeh, spelt, kamut, rye, oats, barley, barley grass)	YES	NO	NO
Free from Soya and Soya Derivatives	YES	NO	NO
Free from Lupin and Lupin Derivatives	YES	NO	NO
Free from Mustard and Mustard Derivatives	YES	NO	NO
Free from Celery or Celery Derivatives (including Celeriac)	YES	NO	NO
Free from Fish and Fish Derivatives	YES	NO	NO
Free from Molluscs and their Derivatives	YES	NO	NO
Free from Crustaceans and their Derivatives	YES	NO	
Free from Sulphur Dioxide and Sulphites (E220, E228) at levels > 10mg/kg or	YES	NO	NO
10mg/litre			

## Flow Chart and Country of Origin Statement

**Bentonite Clay** 



Dear Sir/Madam,

I can confirm, following supplier, that the product origin is **Germany** 

discussions with the

Please find the below Flow Chart for your reference:

natural clay	interim storage in boxes	quality selected in boxes	sediment approx. 65 %
box charging	charging of the line	charging by using wheel loaders	
coiler	preliminary size reduction	size reduction of big clay lumps	
drying drum	drying	approx. 1,5 h/approx. 110° C	
		magnetic separator	
crusher	size reduction	roll crusher approx. < 10 mm	humidity approx. 12 N
silo	interim storage	stocks	
ball mill	grinding	grain band fractionation by the use of a classifier	TSR 45 μm max. 0,3 %
silo	interim storage	stocks	
		screen separator	
packaging/loading	packing	in bulk truck/bag/big bag	ecc. to specification
		magnetic separator	
		screen separator	
customer	consumer	application as a product	



# **GMO and Vegan Statement**

**Bentonite Clay** 

Dear Sir/Madam,

We can confirm, following discussions with the supplier, that the product origin is Vegan Suitable and GMO-

Free, as provided by our supplier. Hoping this meets with your requirements.



Γ	Material S	Safety	Da	ata Sheet	
1. Substance &Company	/ Identification				
Product name:	Bentonite Clay	Company:		MADAR Corporation I 19-20 Sandleheath In Fordingbridge, Hamps Tel: + 44 1425 65555 Email: sales@madarc	dustrial Estate, shire, SP6 1PE 5
2. Composition				I	
Chemical Name Chemical Family Formulae CAS Number EINECS Number R-Phrases number	Bentonite Clay Montmorillonite Aluminosilicate calcium and magn 1302-78-9 215-288-5 Xn R48/20	of sodium, Qua gnesium. EINI		ardous components centration rtz as dust <7.1µ 6 Number ECS Number nrases number	Quartz <5% total quartz. <0.5% 14808-60-7 238-878-4 Xn R48/20
3. Hazards Identification					1
Possible Short term effe	ects:				
Skin Contact	May cause dryness.				
Eye Contact	Irritation and soreness due to dust particles.				
Inhalation	Irritation of nose and throat. Avoid exceeding WEL limit - see section 8.				
Ingestion	Mild gastric irritation.				
Labelling Classification	Xn – Harmful				
Risk and Safety Phrases	R48/20, S22, S51				
Precautions	Use in well ventilated areas, and do not breathe dust for prolonged periods – see Workplace Exposure Limits under section 8. Take care if wet as becomes slippery.				
4. First Aid Measures			0.000		
Skin Contact	Rinse thoroughly	with cold wate	r and	seek medical attention	if symptoms persist
Eye Contact	Rinse thoroughly with cold water and seek medical attention if symptoms persist. Rinse thoroughly with cold water and seek medical attention if symptoms persist.				
Inhalation	Remove person to fresh air, and if symptoms persist seek medical attention.				
Ingestion	Drink several glasses of water or milk. If large quantities are ingested seek medical attention.				
5. Fire Fighting Measure					
Non-combustible		ng fires bear in	n mind	product becomes slipp	ery when wet.
6. Accidental Release M	easures				
Personal precautions	Do not breathe dust for prolonged periods - see section 8. Becomes very slippery when wet.				
Environmental risk	Non-toxic.				
Cleaning up	Sweep -avoid dry sweeping as raises irritant dust, but do not wash with water as becomes very slippery when wet – mixing with damp sawdust is recommended or preferably vacuum up and dispose of as non-toxic waste.				
7. Handling and Storage					
Handling	Avoid the creation section 8.	of dust and e	nsure	adequate ventilation at	point of use. See

Storage	Store in clean dry environment.				
8. Exposure Control / P	ersonal Protection				
Hand protection	Use barrier creams and rubber gloves as re	equired.			
Skin protection	Normal work wear.				
Eye protection	Wear safety glasses.				
<u> </u>	Page 1 of 2				
Respiratory protection	Use dust masks. Ensure adequate ventilat maintain dust levels below WEL* limit.	tion and dust control meas	sures to		
Dry bentonite is classed 2.4 mg/m <sup>3</sup> for respirable present in small quantitie	mits (WEL) according to COSHH E40/ 2005 as a nuisance dust with an 8 hour TWA for ar dust (Respirable dust is that portion with a pa es in this product has a WEL of 0.1mg/m <sup>3</sup> for a	norphous dust inhalation ( rticle size <7.1µm.). Cryst			
9. Physical and Chemic	cal Properties				
Appearance	Pale white, grey, yellow, or brown powe		N/A		
Odour	Odourless	Flash Point	N/A		
PH - 2% suspension	7 - 9.5				
S.G	2.5	Melting Point	N/A		
Solubility	Forms suspension in water.				
Solubility					
Flammability	Non flammable	Boiling Point	N/A		
Explosive properties	None				
10. Stability and Reacti	vitv				
Conditions to avoid	Avoid generation of dust. Do not wet an	v snills			
Materials to avoid	Oxidising agents	y 5pill3.			
Hazardous Decomposition products.					
11. Toxicology Informa	tion				
Ingestion	Orally non toxic. LD50 > 5000mg/kg Ra	t oral.			
Eye contact	Causes irritation due to physical abrasic	on by dust particles.			
Skin contact	Non toxic may cause skin dryness and o	chapping.			
Inhalation	fibrosis of the lung tissue. The presence	Long term exposure to Bentonite dust in excess of the WEL limit may result in fibrosis of the lung tissue. The presence of respirable crystalline silica may lead to silicosis if the WEL is persistently exceeded over a long time.			
12. Ecological informat	ion				
This is a natural mineral	with no known ecological problems associate	d with bentonite.			
13. Disposal Considera	tions				
Dispose of in accordance	e with local and national regulations using an	approved disposal contra	ctor.		
14. Transport Informati	on				
	nsport precautions required, as product is class comes slippery when wet and avoid dust creat	-	but product		
15. Regulatory Informa	tion				
	ew and Existing Chemical Substances – All th	ne components of this pro	duct are listed		
on the EINECS inventory EC Substance Classifica Labelling Classification,	tion – Directive 67/548/EEC				
Risk and Safety Phrase					

COSHHH regulations E40/2005 updated October 2007 apply in the UK.

#### 16. Other information

EU Classes and Risk Phrases for Reference (See sections 2 and 3)

Xn Harmful - substances which may cause health hazards less than toxic. It could refer to other types of risks e.g. to allergic reactions.

R48/20 Harmful: danger of serious damage to health by prolonged exposure through inhalation.S22 Do not breathe dust.

Typical uses of this product are Civil engineering, Oil well drilling, Ceramics, Foundry applications, Land Fill barriers, Bore-hole sealing.

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### **SPECIFICATION**

### **Bentonite Clay**

	Current value 10/2014	Specification MAXI	
Arsenic	13,2	25	ppm
Cadmium	0,64	2	ppm
Mercury	0,4	1	ppm
Lead	9	30	ppm
Fluorine	80	4000	ppm
Dioxines PCDD/F	0,09	0,5	ng WHO-PCDD/F-TEQ/ kg
ioxines (PCDD/F + PCB type dioxine)	0,12	0,75	ng WHO-PCDD/F-PCB-TEQ/ kg
Sum of PCB	3	10	μg/kg

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