



Bentonite

- Safety Data Sheet - Bentonite POWDER

www.SpecialistAggregates.com



tel: 01889 580 660
fax: 01889 580 661
email: enquiries@SpecialistAggregates.com

Safety Data Sheet

1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

Product name: Bentonite Powder

REACH registration number: Exempted in accordance with Annex V.7

CAS number: 1302-78-9

EC number: 215-108-5

Product Code: 6084 - 6088

Relevant identified uses of the substance or mixture:

Rheology modifier, binding agent, adsorbent, filler - SFX dust clouds

Details of the supplier of the safety data sheet:

Specialist Aggregates Ltd - Rydal House - Colton Road - Rugeley - WS15 3HF

T: 01889 580 660 **F:** 01889 580 661

W: www.SpecialistAggregates.com **E:** enquiries@SpecialistAggregates.com

2 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Characterization

Product / Ingredient Name	%	CAS No	EC No	Classification	
				67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]
Bentonite	> 93	1302-78-9	215-108-5	Not Classified	Not Classified
Calcium Carbonate	3 - 15	471-34-1	207-439-9	Not Classified	Not Classified
Quartz	< 2	14808-60-7	238-878-4	Not Classified	Not Classified

The full text for all R phrases and hazard statements are displayed in section 16.

REACH Registration number: Exempt

3 HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

Classification (EC 1272/2008): **Physical and chemical hazards:** not classified

Human health: not classified

Environment: not classified

Classification (67/548/EEC): Not classified

The full text for all R-phrases and hazard statements are displayed in section 16.

LABEL ELEMENTS

EC No: 215-108-5

Label in accordance with (EC) No. 1272/2008 No pictogram required.

OTHER HAZARDS

This product does not contain any PBT or vPvB substances

4 FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

- Inhalation:** Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.
- Ingestion:** Rinse mouth thoroughly. Get medical attention if any discomfort continues.
- Skin contact:** Wash skin with soap and water. Get medical attention if irritation persists after washing.
- Eye contact:** Make sure to remove any contact lenses from the eyes before rinsing. Rinse eye with water immediately. Get medical attention if any discomfort continues.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- Inhalation:** No specific symptoms noted.
- Ingestion:** No specific symptoms noted.
- Skin contact:** No specific symptoms noted.
- Eye contact:** No specific symptoms noted.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically

5 FIREFIGHTING MEASURES

- Extinguishing media:** This product is not flammable. Use fire extinguishing media appropriate for surrounding materials.

SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

- Hazardous combustion products:** None under normal conditions

ADVICE FOR FIREFIGHTERS

- Special fire fighting procedures:** No specific fire fighting procedures given

6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Follow precautions for safe handling described in this safety data sheet

ENVIRONMENTAL PRECAUTIONS

The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP

Avoid dust formation. Remove spillage with vacuum cleaner. If not possible, collect spillage with shovel, broom or the like. Transfer to a container for disposal.

REFERENCE TO OTHER SECTIONS

For personal protection see section 8. For waste disposal see section 13



Specialist Aggregates Ltd - Rydal House - Colton Road - Rugeley - WS15 3HF



01889 580 660



www.SpecialistAggregates.com



enquiries@SpecialistAggregates.com

PAGE 3 OF 7

7 HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Avoid handling which leads to dust formation. Avoid inhalation of high concentrations of dust. Observe occupational exposure limits and minimise the risk of inhalation of dust.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

SPECIFIC END USE(S)

The identified uses for this product are detailed in section 1

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Name	STD	TWA - 8 hrs		STEL - 15 mins	Notes
Bentonite	WEL	10 mg/m ³	4 mg/m ³		
Calcium Carbonate	WEL		10 mg/m ³		
Quartz	WEL		0.1 mg/m ³		

WEL = Workplace Exposure Limit

Ingredient comments:

Dust contains respirable crystalline silica. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. The product contains less than 1% w/w RCS (respirable crystalline silica) as determined by the SWERF method. The respirable crystalline silica content can be measured using the "Size-Weighted Respirable Fraction – SWERF" method. All details about the SWERF method is available at www.crystallinesilica.eu

Whilst long term exposure to respirable crystalline silica in the workplace is well documented, limited exposure to potentially high concentration is less well understood. Hence when Bentonite is used to produce special effect dust clouds, the risk of exposure to respirable silica dust should be assessed, monitored and controlled.

Within the work place, good housekeeping practices should be adopted for the storage, handling and ultimate disposal of Bentonite clay using methods and techniques that minimise or eliminate dust generation.

EXPOSURE CONTROLS

Protective equipment



Engineering measures: Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of inhalation of dust.

Respiratory equipment: No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Wear dust masks in dusty areas.

Hand protection: No specific hand protection noted, but gloves may still be advisable.

Eye protection: Wear dust resistant safety goggles where this is a danger of eye contact.

Other protection: Provide eyewash station.

Hygiene measures: Wash hands at the end of each work shift and before eating, smoking and using the toilet.



Specialist Aggregates Ltd - Rydal House - Colton Road - Rugeley - WS15 3HF

PAGE 4 OF 7



01889 580 660



www.SpecialistAggregates.com



enquiries@SpecialistAggregates.com

9 PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC AND PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Powder, dust
Colour:	White / Grey / Ochre / Brown / Beige
Odour:	Odourless
Melting point (°C):	>450
Relative density:	2.6

OTHER INFORMATION

Not relevant



10 STABILITY AND REACTIVITY

Reactivity:	No specific reactivity hazards associated with this product.
Chemical stability:	Stable under normal temperature conditions.
Possibility of hazardous reactions:	Not relevant
Conditions to avoid:	No specific conditions are likely to result in a hazardous situation

INCOMPATIBLE MATERIALS

Materials to avoid:	No specific, or groups of materials, are likely to react to produce a hazardous situation.
Hazardous decomposition products:	None under normal circumstances

11 TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

Other health effects:	This substance has no evidence of carcinogenic properties.
------------------------------	--

ACUTE TOXICITY

Acute toxicity (Oral LD50):	Not relevant
Acute toxicity (Dermal LD50):	Not relevant
Acute toxicity (Inhalation LC50):	Not relevant

Inhalation:	Dust in high concentrations may irritate the respiratory system.
Ingestion:	May cause discomfort if swallowed.
Skin contact:	Powder may irritate skin.
Eye contact:	Particles in the eyes may cause irritation and smarting.



12 ECOLOGICAL INFORMATION

Ecotoxicity:	Not regarded as dangerous for the environment.
Acute fish toxicity:	Not considered toxic to fish.
PERSISTENCE AND DEGRADABILITY	
Degradability:	The product is not readily biodegradable.
Bioaccumulative potential:	The product is not bioaccumulating.
Mobility in soil:	Not relevant, due to the form of the product.
Results of PBT and vPvB assessment:	This product does not contain any PBT or vPvB substances.
Other adverse effects:	None known



13 DISPOSAL CONSIDERATIONS

Waste treatment methods:	Dispose of waste and residues in accordance with local authority requirements
---------------------------------	---

14 TRANSPORT INFORMATION

Road transport notes:	Not classified
Rail transport notes:	Not classified
Sea transport notes:	Not classified
Air transport notes:	Not classified
UN Number:	The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).
UN proper shipping name:	Not classified for transportation.
Transport and hazard class(es):	Not classified for transportation.
Packing group:	Not classified for transportation.
ENVIRONMENTAL HAZARDS	
Environmentally hazardous substances: / marine pollutant	No
Special precautions for user:	Not classified for transportation.
TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL73/78 AND THE IBC CODE	
	Not applicable



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

Approved code of practice: Classification and labelling of substances and preparations dangerous for supply. Safety data sheets for substances and preparations.

Guidance notes: Workplace Exposure Limits EH40.

EU Legislation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning 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 Regulations (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, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

Chemical Safety Assessment: Not applicable. No chemical safety assessment has been carried out.



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 himself as to the suitability of such information for his purpose..

Information Source: LKAB Minerals Safety Data Sheet Titled: Non-hazardous material safety data sheet for Activated Calcium Bentonite (Powder)

Specialist Aggregates Ltd Issue Date: 03-03-16

