

Sodium Bentonite Clay Powder  
Material Safety Data Sheet



**1. Identification of Substance**

Product Name: Sodium Bentonite Clay Powder  
Company Address: Vibration Chemicals  
Unit 7 Merchants Quay  
Pennygillam Industrial Estate  
Launceston, Cornwall PL15 7QA  
Company Contact: [vibration@live.co.uk](mailto:vibration@live.co.uk)  
0845 64 34 199

**2. Composition / Ingredient Information**

Chemical Description: Sodium Bentonite Clay Powder

Typical Chemical Analysis

SiO<sub>2</sub> 57.1%  
Na<sub>2</sub>O 3.27%  
Al<sub>2</sub>O<sub>3</sub> 17.79%  
K<sub>2</sub>O 0.9%  
Fe<sub>2</sub>O<sub>3</sub> 4.64%  
TiO<sub>2</sub> 0.77%  
CaO 3.98%  
LoI 7.85%  
Mn<sub>2</sub>O<sub>3</sub> 0.06%  
MgO 3.68%

Typical Mineralogy

Montmorillonite 92%  
Calcite 4%  
Feldspars 2%  
Quartz 1%  
Dolomite 1%

Other Typical Properties

Bulk Density 800 – 900 Kg/m<sup>3</sup>  
Swelling Volume 29 ml/2g  
Moisture Maximum 14% by weight  
Cation Exchange Capacity 78 meq / 100g  
Sieve Analysis  
Maximum 5% retained on a 150:μm sieve.

**3. Identification of Hazards**

Caution: Wet floors on which this powder is spilt may become slippery.  
Crystals will absorb water.  
Short Term Exposure: An 8hr exposure limit to the granules is recommended.

[Cont...]

Long Term Exposure: An 8hr exposure limit to the granules is recommended.  
Ecology: No long-term ecological effects.

#### 4. First Aid Measures

Skin contact: Wash off with plenty of soap & water.  
Eye contact: Irrigate with water. Seek medical advice if irritation persists.  
Ingestion: Use a face mask. Rinse mouth with water. Seek medical advice.  
Inhalation: Use a face mask. Rinse mouth with water. Seek medical advice.

#### 5. Fire Fighting Measures

Conditions to Avoid: Keep away from heat, sparks & flames. Avoid excess dust in the atmosphere as this is an explosion hazard in the presence of electrical sparks & static discharges.  
Fire Fighting Measures: Fight the fire using dry chemical, foam, carbon dioxide and water fog.  
Protective Equipment: Impervious gloves. Use goggles. Use a dust mask.

#### 6. Accidental Release Measures

Cautions: Wet floors on which this powder is spilt may become slippery. When dispersed in air, represents an explosion hazard.  
Environmental: Do not discharge into drains or rivers. Contain the spillage using paper towels / newspaper.  
Clean-up procedures: Sweep this product for use or place in a container for disposal. Dispose in accordance with local regulations. This is non-hazardous waste suitable for approved solid waste landfill.

#### 7. Handling and Storage

Handling: Handle in a well-ventilated area. Avoid static build-up when emptying big bags. Use Face Mask.  
Packaging: The packaging material should have reasonable moisture and air barrier properties.  
Storage (Powder): Product should be stored in a dry area, under cover, in a clean well-ventilated area. Maintain a clean area by removing dust. Keep away from heat, sparks, and other sources of ignition.  
Storage (Clay): The Clay Mix can be stored in a container, for many months before it begins to deteriorate. Disposal as of below.

[Cont...]

## 8. Exposure Controls / Personal Protection

Engineering Controls:	Handle in a well-ventilated area. Normal industrial hygiene measures should be sufficient.
Protective Gloves:	Impervious gloves. Use goggles. Use a dust mask.

## 9. Physical & Chemical Properties

Form:	Beige or Brown Powder AKA Green Clay
Solubility:	Complete in water.
Odour:	Odourless.

## 10. Stability & Reactivity

Stability:	This product is chemically stable in normal temperatures.
Reactivity:	No additional hazardous chemicals are known to be formed when used as directed in this application.

## 11. Toxicological Information

Dermal:	Slight primary irritation may occur.
Eyes:	Minimal irritation may occur.
Oral:	We believe this product has a low order of toxicity.

## 12. Ecological Considerations

Mobility:	Readily absorbed into soil.
Persistence & degradability:	Biodegradable.

## 13. Disposal Considerations

Disposal (Powder):	Waste incineration or special disposal with the approval of the responsible local authority.
Disposal (Liquid):	Can be diluted using sodium chloride and disposed down toilet or drain. Landfill.

[Cont...]

#### **14. Other Information: Disclaimer**

The data given above is based upon information received by us and believed to be correct as general guidance for our customers who should, nonetheless, seek confirmation regarding the application of such information as well as safety and or/suitability in relation to the product supplied either alone or in combination with other products. Given that the above information is for general guidance only, users (customers and otherwise) assume all responsibility and liability of whatsoever nature arising from the handling and use of the product and the application of such information (whether or not the product is used alone or in combination with another product) and users must satisfy themselves by specific enquiries and confirmation as to application of the above information and/or the safety and/or suitability of the product and by reference to their own tests and knowledge.

All information and data has been expertly compiled in accordance with UK Chemicals (Hazard Information & Packaging) Regulations 2002.

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