

# MATERIAL SAFETY DATA SHEET



## Bentonite

### IDENTIFICATION

UN number: N/A  
DG Class: N/A

Hazchem Code: N/A  
Toxic Substances Sch.: N/A

HMIS- Bentonite	
HEALTH	0*
FLAMMABILITY	0
REACTIVITY	0
PERSONAL PROTECTION	E



Product Name: Calben, Rheogel® range of products, Benfloc range of products

#### Chemical Name:

Hydrated sodium calcium magnesium aluminio-silicate (Ca,Mg,Na)Al<sub>2</sub>O<sub>3</sub>SiO<sub>2</sub>.nH<sub>2</sub>O (CAS# 1302-78-9)

Except for Benfloc 950 & Subseal, contains less than 2% crystalline silica - non respirable & respirable (CAS# 14808-60-7), less than 0.2% cristobalite - non-respirable & respirable (CAS# 14464-46-1)

#### Physical Description/Properties:

Light Brown powder. Mixes readily with water.

Decomposition Temp: 550 ° C - losing about 10% -20% water.

Melting Point: n/a

Specific Gravity: 2.70 g/cm<sup>3</sup>

PH (5% dispersion): 10.5 approx.

### HEALTH HAZARD INFORMATION

#### Health Effects:

Swallowed: None  
Eye: Irritation of cornea. Mildly alkaline pH 10.5 approximately  
Skin: Repeated or prolonged exposure may dry out the skin and cause irritation, possibly leading to dermatitis.  
Inhaled: Irritation of lungs, coughing or choking may occur.

This product contains a small percentage of crystalline silica. There is an established link between long term inhalation of dusts containing crystalline silica with lung disease. Adequate measures should be taken to ensure exposure is avoided.

The product is essentially of low hazard as the silica levels are low as reasonably practicable and should not exceed the inhalable dust standard of 10mg/m<sup>3</sup>.

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### First Aid:

- Swallowed: Wash out mouth with water. Drink plenty of water
- Eye: Rinse immediately with cool, clean running water for at least 15 minutes
- Skin: Wash off with water (non irritant)
- Inhaled: Remove the patient to fresh air and rest. If you feel unwell or if exposure prolonged, seek medical attention

Toxicity Data: None recorded.

### PRECAUTIONS FOR USE

- Exposure Limits (TWA):** 10mg/m<sup>3</sup> inspirable dust as bentonite (clay) dust, 0.2mg/m<sup>3</sup> respirable dust as quartz, 0.1mg/m<sup>3</sup> respirable dust as cristobalite
- Ventilation:** Dust control, or extraction to meet exposure limits.
- Personal Protection:** Wear a NIOSH/MSHA approved dust mask, eye protection and skin protection.
- Flammability:** Non flammable

### SAFE HANDLING INFORMATION

- Storage & Transportation:** Store in a dry, well ventilated environment under cover.
- Spills and Disposal:** Wear a dust mask & skin protection, sweep up. Product is a natural mineral, so it can be buried safely.
- Fire/Explosion Hazard:** Not flammable
- Other Information:** pH 10.5, wear skin protection to avoid possibility of dermatitis. Very slippery when wet, avoid getting wet.

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