Link

Feed

Ingredients

806-360-3886 Fax: 806-363-6276

MATERIAL SAFETY DATA SHEET Bentonite

Doc. No.: MSDS	Page 1 of X
	Review Date: 8/8/16

1.0 IDENTIFICATION OF MATERIAL:	
Name of Composition	Bentonite
Chemical Name	Magnesium and Aluminum Silicate/ Phyllosilicate
Molecular Formula	Al ₂ O ₃ .4(SiO ₂).H ₂ O

CAS NO.	COMPONENT	CONCENTRATION
1318-93-0	Montmorillonite	>90%
14808-60	Quartz	<10%
12001-26-2	Mica	<10%

3.0 PHYSICAL DATA:		
Typical Characteristics	Boiling Point	Specific Gravity (Water = 1)
Light color (grey, pink, yellow, green brown) granules or Powder. Odorless	n/a	2.5 g/cc
Bulk density	Melting Point	рН
1.18 g/cc	1200°C	8.1 to 10.5
Vapor Density (Air = 1)	% Soluble in water:	Physical State
n/a	Nil	Solid

4.0 FIRE AND EXPLOSIVE HAZARD DATA:			
FLASH POINT	FLAMMABLE (EXPLOSIVE) LIMITS (PERCENT BY VOLUME)		
Not explosive.	LOWER EXPLOSIVE LIMIT	UPPER EXPLOSIV	'E LIMIT
	n/a	n/a	
FIRE EXTINGUISING MEDIA: Product will not burn.			
SPECIAL FIRE FIGHTING PROCEDURE: n/a			
UNUSUAL FIRE AND EXPLOSION HAZARDS: n/a			

Link Feed

Ingredients

806-360-3886 Fax: 806-363-6276

5.0 HEALTH HAZARD DATA: HMIS Hazard Class. Health: 1 Flammable: 0 Reactivity:0			
EFFECTS OF	ACUTE	Bentonite is of low acute toxicity. Eye contact may cause mechanical irritations if	
OVEREXPOSURE		exposed to excessive amount of Bentonite. Skin contact may aggravate existing	
		dermatitis.	
		Inhalation from prolonged and continuous exposure may aggravate existing asthmatic	
		or respiratory conditions.	
	CHRONIC	Long-term exposure to any respirable mineral dust could cause slight effects on the	
		respiratory system. Wet bentonite spillage constitutes a major slipping hazard.	
		Prolonged inhalation of excessive levels of Bentonite dust may cause a simple	
		pneumoconiosis condition, not normally associated with a decrement in lung function.	
		In cases of long-term exposure to externally high levels of dust, complicated	
		pneumoconiosis with lung function impairment may occur.	

HAZARDS: OES (Occupational Exposure Standard) for respirable Bentonite dust: 5mg/m³ in an 8 hours' time weighted average reference period.

EMERGENCY AND FIRST AID PROCEDURES:

Eye Contact: Flush with copious amount of fresh water. Eyelids may become sticky. Avoid rubbing eyes. If irritation develops, seek medical attention.

Skin Contact: Wash with soap and water. Bentonite is a desiccant and may cause dry skin. Repeated contact may also cause slight irritation. If irritation develops, seek medical attention.

Inhalation: Move to dust free fresh air. If respiratory distress develops, seek medical attention.

Ingestion: No adverse effect expected. Rinse mouth out with water. Seek medical attention if significant quantities have been ingested.

6.0 REACTIVITY DATA:	
GENERAL REACTIVITY:	Non-Reactive
INCOMPATIBILITY (MATERIALS TO AVOID):	None
HAZARDOUS DECOMPOSITION PRODUCTS:	No hazardous decomposition or by products expected
HAZARDOUS POLYMERIZATION:	n/a
CONDITIONS TO AVOID:	none

7.0 SPILL PROCEDURES/DISPOSAL REQUIREMENTS:		
STEPS TO BE TAKEN IN CASE	Collect spillage by vacuum cleaning or other mean whereby dust creation is	
MATERIAL IS RELEASED OR SPILLED:	minimized. If dust levels should exceed the occupational exposure standard,	
	then personal protective equipment is required.	
PERSONAL PRECAUTIONS:	Wear dust mask, safety gloves and goggles.	
ENVIRONMENTL PRECAUTIONS:	Do not allow the entering into drains, rivers, or lakes.	
DISPOSAL CONSIDERATIONS:	Bentonite and waste from reside can be disposed as non-toxic and inactive materials in approved landfill sites in accordance with local regulations. Contaminated packaging can be disposed in approved landfill sites in accordance with local regulations.	

Link

Feed

Ingredients

806-360-3886 Fax: 806-363-6276

8.0 SPECIAL PROTEC	CTION INFORMATION:
EYE PROTECTION:	Eyewash should be available, but eye protection is not required unless physical working conditions demand it.
GLOVES:	Use gloves to avoid skin irritation.
RESPIRATORY:	Use appropriate engineering controls to avoid dust oration or accumulation. Ensure all occupational exposure limits are maintained (5 mg/m ³ on TWA 8 hours for alveolar dust, and 10 mg/m ³ on TWA 8 hours for total inhalator dust). Wear approved respirator or dust mask in the event of dust creation.
VENTILATION:	Use exhaust ventilation to keep airborne dust concentration below exposure limits. Additionally, local exhaust ventilation is recommended where dusts may be released.

9.0 SPECIAL PRECAUTIONS:	
STORAGE REQUIREMENTS:	Store in a dry covered area
HANDLING:	Bentonite is safe to handle. Material is very slippery when wet. Use appropriate controls and ventilation to avoid creating accumulation dust. Avoid inhalation and repeated contacts with eyes or skin
Toxicological Information:	Bentonite has no determined acute toxic effects. Long-term exposure to moderate or high concentrations of Bentonite dust may affect nose and respiratory tract and chest health. No toxicological effects are expected if respirator dust concentrations are maintained below the occupational exposure standards. Repeated contact with skin may cause dry skin and irritations. Repeated eye contact may generate irritation. No toxicological effects are expected if personal protective equipment is worn. No adverse effects are expected when ingested.

10.0 SHIPPING REGULATIONS (D.O.T. NO	DMENCLATURE:	
Proper Shipping Name:		
Hazard Class	Type of Packaging	Label
Not classified as dangerous for transportation. May be transported in accordance with the standard local authority regulations.	None	Bentonite is not classified as dangerous for supply under EEC regulations. Bentonite does not require labelling for safety information or risk information
Placard	Marker	Exemptions
None	None	None

11.0 ECOLOGICAL INFORMATION		
Environmental Statement	Bentonite has a low impact on environment. Bentonite is persistent and non-	
	biodegradable but it is unlikely to have any long-term adverse effect on the environment.	

Link Feed

Ingredients

806-360-3886 Fax: 806-363-6276

Mobility:	Solid, nonvolatile, insoluble in water
Degradability:	Non-biodegradable.
Accumulation:	No bioaccumulation or bio-magnification identified.
Eco toxicity:	Non-toxic to aquatic living organisms and animals.
	Non-toxic to aquatic plants
	Non-toxic to soil organism.
	Non-toxic to aerobic and anaerobic plants
	Non-toxic to aerobic and anaerobic living organisms and animals.
	Bentonite is 5 mg/m ³ respirable dust in a TWA 8 hour's reference period.

12.0 NOTES:

The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without representation of warranty, express or implied, regarding the accuracy or correctness. The conditions or methods of handling, storage, use and disposal of this product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and express disclaim liability for loss, damage or expense arising out of, or in any way connected with handling, storage, use or disposal of the product.