



# MATERIAL SAFETY DATA SHEET

PRODUCT NAME: STANDAR BENTONITE

SECTION I	MANUFACTURER INFORMATION
DISTRIBUTOR:	TELEPHONE:

## Section II HAZARDOUS COMPONENTS / IDENTITY INFORMATION

HAZARDOUS COMPONENTS						
SPECIFIC CHEMICAL IDENTITY: (COMMON NAME)			OSHA PEL	ACGIH TLV	RECOM.	% OPTIONAL
CRYSTAL QUARTZ CAS-14808-60-7 (NATURALLY OCCURRING CONTAMINANTS)			---	---	---	2 - 6
BREATHABLE QUARTZ CRYSTAL		Present (TWA)	0.1 mg/m <sup>3</sup>	0.1mg/m <sup>3</sup> TWA	NIOSH 50 mg/m <sup>3</sup>	2
		Proposed (TWA)	---	50 mg/m <sup>3</sup>	---	---
DUST	Breatheable		5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	---	---
	Total Dust		15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	---	---

### \* WARNING:

This clay product contains a small amount of Crystalline Silica, which can cause respiratory disease if inhaled over a prolonged period. Avoid breathing dust. Use respirators NIOSH / MSHA approved where the Crystalline Silica TLV may be exceeded. IARC Monographs on the evaluation of carcinogenic risks of chemicals to humans (volume 42, 1987) concludes that there is "limited evidence" that Crystalline Silica is carcinogenic for humans, classification 2a, IARC.

### PRODUCT IDENTIFICATION

Chemical Name: Bentonite Clay (100%)  
 Chemical Family: Natural Mineral, Montmorillonite.  
 CAS No.: 1302-78-9 Bentonite is within the TSCA inventory.  
 Formula: Naturally occurred Hydrated Sodium Aluminosilicate, Calcium, Magnesium and Iron.  
 NFPA / HMIS: Health - 1 Fire - 0, Reactivity - 0 Specifies threat. See Section VI  
 DOT Class: Not regulated. Chemical Family: Natural Mineral, Montmorillonite.  
 CAS No.: 1302-78-9 The bentonite is comprised among the TSCA inventory.  
 Formula: Naturally occurred Aluminosilicate Sodium Hidrated, Calcium, Magnesium and Iron.  
 NFPA/HMIS: Health - 1, Fire - 0, Reactivity - 0, Specific hazard. See Section VI  
 Clase DOT: Not regulated..

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Section III		Physical and Chemical Properties	
Boiling point	Not applicable	Specific Gravity(H <sub>2</sub> O)	2.5
Vapor Pressure (mm Hg)	Not applicable	Melting Point	Not applicable
Vapor Density (air = 1)	Not applicable	Evaporation Rate (butyl acetate = 1): Not Applicable	
Solubility in Water	negligible		
Appearance and Odor	loose powder or granules with no odor.	0	

Sección IV		RIESGO DE FUEGO Y EXPLOSION	
Bright spot	Not applicable		
Flammable Limits	Not applicable	LEL	UEL
Extinguishing Media	Not applicable		
Special Procedures	Inorganic Minerals / Not flammable		
Fire Fighting			

Section V		REACTIVITY	
Stability	Unstable - Steady-x	Conditions to avoid:	None known
Incompatibility	(Materials to avoid)	None known	
Hazardous Decomposition or Byproducts	None known		
Polymerization risks	can occur	Conditions to prevent	None known
stability	Not occur - x	Conditions to avoid:	

Section VI		HEALTH HAZARD	
Access Routes:	Inhalation? Not	skin? Not	1
Health Hazards (Acute and Chronic)		Disease can cause respiratory failure if the dust is inhaled for prolonged periods.	
Carcinogenic:	NTP? No	IARC Monographs? Yes	Regulated by OSHA? not
MonografosIARC in the evaluation of carcinogenic risks of chemicals to humans. (Volume 42, 1987 concludes that there is "limited evidence" of carcinogenicity of Crystalline Silica in Humans. Ranking the 2nd. IARC			
Signs and Symptoms of Exposure	Excessive inhalation of dust can quickly result in a short time and reduce lung function		
Medical conditions generally aggravated by exposure	Individuals with lung disease and / or respiratory including but not limited to asthma and bronchitis should be prevented and dust inhalation.		
Emergency and First Aid	Eyes: Flush with water. Thick dust Inhalation: Remove to fresh air, give oxygen and artificial respiration if necessary		

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## Section VII

## PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken if material is spilled	Aspire if possible to prevent dust from rising. Avoid breathing dust. Use proper mask. Avoid adding water, the product will become slippery when wet.
Waste Disposal Method	Follow federal, state and local solid waste.
Precautions to be taken in handling and storage	Avoid breathing dust, use respirators approved NIOSH / MSHA where the TLV for Crystalline Silica that can be exceeded.
Other precautions	Slippery when wet.

## Section VIII

## CONTROL MEASURES

Respiratory Protection (specify type) - Standard Specification OSHA 1910.134 and ANSI Z88.2 - 1980	
Local Exhaust Ventilation - Proper Special - None	Local Exhaust Ventilation - Proper Special - None
Mechanical (General) - Proper Other - None	Mechanical (General) - Proper Other - None
Protective gloves are not required.	Protective gloves are not required.
Recommended Eye Protection.	Recommended Eye Protection.
Other Protective Clothing or Equipment None.	Other Protective Clothing or Equipment None.