WYO-BEN, INC. MATERIAL SAFETY DATA SHEET

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NFPA PIRE HAZARD

L.P	RODUCT ID	ENTIFICAT	TION	
Trade Name(s): HYDROGEL [•]				
Generic Name(s): Wyoming (Western) Benton	ite (C.	AS No. 1302	2-78-9)	
Chemical Name(s): Sodium Montmorillonite	(CA	S No. 1318-	93-0)	
Manufacturer: WYO-BEN, INC. Address: P.O. Box 1979 Billings, Montana 59103		Telephone Numbers: Information: (406) 652-6351 EMERGENCY: (406) 652-6351		
	AZARDOUS	INGREDI	ENTS	
Ingredient	CAS No.	%	Hazard	
Crystalline Silica (SiO ₂)	7631-86-9		Low concentrations of crystalline silica (SiO ₂) in the form of quartz, crystobalite, and tridymite may be present in airborne bentonite dust. The concentration level of total free silica in airborne bentonite dust is variable depending upon origin of bentonite ore, fineness of product, moisture content of product, local humidity and wind conditions, etc. (See Section VI)	
	III. PHYSI	CAL DATA		
Boiling Point (°F): NA		Specific Gravity ($H_2O=1$): 2.45-2.55		
Vapor Pressure (mm. Hg): NA		Melting Point: Approx. 1450°C		
Vapor Density (Air = 1): NA		Evaporation Rate (Butyl Acetate = 1): NA		
Solubility in Water: Insoluble, forms colloidal suspension.		pH: 8-10 (5% aqueous suspension)		
Density (at 20° C): 55 lbs./cu.ft. as product.				
Appearance and Odor: Bluegray to green as m	ioist solid, lig	ht tan to gr	ay as dry powder. No odor.	
IV.	FIRE AND E	XPLOSION	DATA	
Flash Point: NA		Flammable Limits: LEL: NA UEL: NA		
Special Fire Fighting Procedures: NA				
Unusual Fire and Explosion Hazards: None.	Product will a	tot support	combustion.	
Extinguishing Media: None for product. Any	media can be	used for the	e packaging.	
		CTIVITY		
Stability: Stable				
Hazardous Polymerization: None				
Incompatibility: None				
Hazardous Decomposition Products: None				
NA = Not Applicable ND = Not De	termined	Date Pre	pared: March 9, 1990	

	VI. HEALTH R/	ZARD INFORMATI	ON
Eyes: Mechanical Inhalation: Acute tract resul Chron higher tha	ing resulting in dermatitis. Irritant. (short term) exposure to dust ting in a dry cough. ic (long term) exposure to fre a TLV's may lead to develops labored breathing upon exert	e silica containing air ment of silicosis or ot	PBL may cause irritation of respiratory borne bentonite dust where levels are her respiratory problems. Persistent dry
_	aits: entonite as nuisance dust Total dust Respirable dust rystalline Quartz (respirable)	OSHA PEL (8br. TWA) 15mg/m ³ 5mg/m ³ 0.1mg/m ³	ACGIH TLV ND 0.1mg/m ³
Where crystobalit	e or tridymite are present use	1/2 of the PEL or TL	.V value for crystalline quartz.
Carcinogenicity: Bentoni evidence suggestin	te is not listed by NTP, IARC ag the carcinogenicity in huma	or OSHA. IARC, 1	987, concludes that there is limited ine silica (IARC Class 2A).
Acute Oral LD ₁₀ : ND	Acute Derma		Aquatic Toxicology LC10: ND
Inhalation: Move	existing respiratory illness.	AND USE PRECAU	persist contact physician. Inhalation may
dust. Vacuum u	erial is Released or Spilled: a to avoid generating airborne	Avoid breathing dust; dust. Avoid using w	wear respirator approved for silica bearing ater. Product slippery when wetted.
Waste Disposal Methods regulations.	" Product should be disposed	of in accordance with	h applicable local, state and federal
Handling and Storage Pr	recautions: Use NIOSH/MSH me bentonite dust icvels excee rs may become slippery if wet	d PEL/TLV's. Clean	ed for silica bearing dust when free silica up spills promptly to avoid making dust.
containing airbor Storage area floo		VOIENE CONTROL	MEACIIDER
containing airbor Storage area floo	VIII. INDUSTRIAL H	TURNE CONTROL	MEASURES
Storage area floo	VIII. INDUSTRIAL H		al ventilation to maintain PEL's/TLV's.
Storage area floo Ventilation Requiremen	VIII. INDUSTRIAL H	ventilation. Use loca	al ventilation to maintain PEL's/TLV's.
Storage area floo Ventilation Requiremen Respirator: Use respirat	VIII. INDUSTRIAL H Is: Mechanical, general room	ventilation. Use loca IA for silica bearing of	al ventilation to maintain PEL's/TLV's.
Storage area floo Ventilation Requirement Respirator: Use respirat Eye Protection: Genera	VIII. INDUSTRIAL H U: Mechanical, general room lors approved by NIOSH/MSF	ventilation. Use loca LA for silica bearing of reference.	al ventilation to maintain PEL's/TLV's.
Storage area floo Ventilation Requirement Respirator: Use respirat Eye Protection: General Gloves: Generally not r	VIII. INDUSTRIAL H ts: Mechanical, general room tors approved by NIOSH/MSF ily not necessary. Personal pr	ventilation. Use loca LA for silica bearing of reference.	al ventilation to maintain PEL's/TLV's.
Storage area floo Ventilation Requirement Respirator: Use respirat Eye Protection: General Gloves: Generally not r	VIII. INDUSTRIAL H ts: Mechanical, general room tors approved by NIOSH/MSF lly not necessary. Personal pr necessary. Personal preference ng or Equipment: None	ventilation. Use loca LA for silica bearing of reference.	al ventilation to maintain PEL's/TLV's.
Storage area floo Ventilation Requirement Respirator: Use respirat Eye Protection: General Gloves: Generally not r	VIII. INDUSTRIAL H ts: Mechanical, general room tors approved by NIOSH/MSF ily not necessary. Personal pr necessary. Personal preference ng or Equipment: None IX. SPEC	ventilation. Use loca IA for silica bearing of reference.	al ventilation to maintain PEL's/TLV's. dust.
Storage area floo Ventilation Requirement Respirator: Use respirat Eye Protection: Genera Gloves: Generally not r Other Protective Clothin	VIII. INDUSTRIAL H ts: Mechanical, general room tors approved by NIOSH/MSF ily not necessary. Personal pr necessary. Personal preference ng or Equipment: None IX. SPEC	ventilation. Use loca IA for silica bearing of reference.	al ventilation to maintain PEL's/TLV's.
Storage area floo Ventilation Requirement Respirator: Use respirat Eye Protection: General Gloves: Generally not r Other Protective Clothin Avoid prolonged inhalat	VIII. INDUSTRIAL H us: Mechanical, general room lors approved by NIOSH/MSF ily not necessary. Personal pr necessary. Personal preference ing or Equipment: None IX. SPEC tion of airborne dust.	ventilation. Use loca LA for silica bearing of reference.	al ventilation to maintain PEL's/TLV's.

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the information is current and suitable for their circumstances. No warranty or guarantee, expressed or implied is made by WYO-BEN, INC. as to this information, or as to the safety, toxicity or effect of the use of this product. . •