

WYO-BEN, INC.

SAFETY DATA SHEET

SECTION 1 —	CHEMICAL PRODUCT	AND COMPANY	IDENTIFICATION

<u>Product Trade Name</u> <u>Chemical Family</u>	EXTRA HIGH YIELD BENTONITE Mineral		
Application	Drilling Fluids		
Manufacturer/Supplier Emergency Phone Number	Wyo-Ben, Inc. 1345 Discovery Drive Billings, MT 59102 USA Telephone: 800.548.7055 Facsimile: 406.656.0748 CHEMTREC® 1.800.424.9300		
	SECTION 2 — HAZARD IDENTIFICATION		
Hazard Classification	Carcinogenicity (Category 1A) Specific Target Organ Toxicity (Repeated Exposure) (Category 1)		
Signal Word	Danger		
Hazard Statements	May cause cancer. Causes damage to organs through prolonged or repeated exposure.		
Hazard Symbol			
Precautionary Statements			
Prevention	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breath dust. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.		
Response	If exposed or concerned: Get medical advice/attention. Get medical attention/advice if you feel unwell.		
Storage	Store locked up.		
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.		
<u>Hazards Not Otherwise</u> <u>Classified</u>	May cause eye and respiratory irritation.		

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Substance	CAS Number	Percent
Crystalline Silica, quartz	14808-60-7	≤6%

SECTION 4 — FIRST AID MEASURES			
Inhalation	If inhaled, remove to a dust free area. Get medical attention if respiratory irritation develops or if breathing becomes difficult. Inhalation may aggravate existing respiratory illness.		
<u>Eyes</u>	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.		
<u>Skin</u>	Wash with soap and water. Seek medical attention if irritation persists.		
Ingestion	Do Not induce vomiting. First aid measures not normally required.		
Notes to Physician	Treat symptomatically		

SECTION 5 — FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Product is non-combustible. All standard firefighting media may be used.	
Unsuitable Extinguishing Media	None	
Special Exposure Hazards	None known. Product is not combustible.	
Special Protective Equipment and Precautions for Firefighters	None for product. Wear self-contained breathing apparatus (SCBA) and full protective gear. Caution: slippery when wet.	
NFPA Ratings	Health 1, Flammability 0, Reactivity 0	
SECTION 6 — ACCIDENTAL RELEASE MEASURES		
Personal Precautionary Measures	Use appropriate protective equipment. Avoid creating and breathing dust.	
	Prevent further leakage or spillage if safe to do so.	
Environmental Precautionary Measures	No special environmental precautions required	
Procedure for Cleaning/Absorption	Prevent further leakage or spillage if safe to do so. Avoid generating dust. Collect using appropriate dustless method. Dispose in landfill according to local, state and federal regulations.	

SECTION 7 — HANDLING AND STORAGE

Handling Precautions	This product contains quartz which may become airborne. Avoid breathing dust. Avoid	
	creating dusty conditions. Promptly clean up spills to avoid breathing airborne dust. Use only with adequate ventilation to keep exposure below recommended exposure limits. Wear a NIOSH/MSHA European Standard En 149, or equivalent certified for silica bearing dust, respirator when using this product. Material is slippery when wet.	
Storage InformationUse good housekeeping in storage and work areas to prevent accumulation of dust. Clo container when not in use. Do not reuse empty container.		

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Substance	CAS Number	ACGIH TLV-TWA	OSHA PEL-TWA*
Crystalline Silica, quartz	14808-60-7	0.025 mg/m ³	<u>10 mg/m³</u> %SiO2 + 2

* Quartz from Bentonite was specifically excluded from the new, lower PEL in the 2016 OSHA Respirable Crystalline Silica rulemaking. More restrictive exposure limits may be enforced by some states, agencies, or other authorities.

Engineering Controls	Use approved industrial ventilation and local exhaust as required to maintain exposures below applicable exposure limits.
Personal Protective Equipment	If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.
Respiratory Protection	Not normally needed. If significant exposures exceeding occupational exposure limit are possible use NIOSH/MSHA respirator approved for silica bearing dust.
Hand Protection	Standard work gloves.
Skin Protection	Wear clothing appropriate for the work environment. Dusty clothing should be laundered before reuse. Use precautionary measures to avoid creating dust when removing or laundering clothing.
Eye Protection	Wear safety glasses or goggles to protect against exposure.
Other Precautions	None known.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Powdered Solid
<u>Color</u>	Light tan to gray as dry powder
<u>Odor</u>	Odorless
<u>рН</u>	8 – 10 (5% aqueous suspension)
Specific Gravity @ 20 C (Water=1)	2.45 – 2.55
Density @ 20 C (Ibs/gallon)	Not determined
Bulk Density @ 20 C (lbs/ft ³)	49 - 55
Boiling Point/Range (F/C)	Not applicable
Freezing Point/Range (F/C)	Not applicable
<u>Vapor Pressure @ 20 C (mmHg)</u>	Not applicable
Vapor Density (Air=1)	Not applicable
Percent Volatiles	Not applicable
Evaporation Rate (Butyl Acetate=1)	Not applicable
Solubility in Water (g/100ml)	Insoluble, forms colloidal suspension
Solubility in Solvents (g/100ml)	Not applicable
VOCs (lbs/gallon)	Not applicable
Viscosity, Dynamic @ 20 C (centipoise)	3.5 – 12.5 (6% aqueous suspension)
Viscosity, Kinematic @ 20 C (centistokes)	Not determined
Partition Coefficient/n-Octanol/Water	Not applicable
Molecular Weight (g/mole)	Not applicable
Flash Point/Range (F/C)	Not applicable
Flash Point Method	Not applicable
Autoignition Temperature (F/C)	Not applicable

Flammability Limits in Air – Lower (%)

Flammability Limits in Air – Upper (%)

Not applicable

Not applicable

SECTION 10 — STABILITY AND REACTIVITY

Reactivity:	Nonreactive
Chemical Stability:	Stable
Possibility of Hazardous Reactions:	Will not occur.
Conditions to Avoid:	None known
Incompatibility (Materials to Avoid):	None known
Hazardous Decomposition Products:	None
Additional Guidelines:	Not applicable
SECTIO	N 11 — TOXICOLOGICAL INFORMATION
Principle Route of Exposure	Eye or skin contact, inhalation.
Symptoms Related to the Physical, Chemical a	nd Toxicological Characteristics
Inhalation	Inhaled crystalline silica in the form or quartz from occupational sources is carcinogenic to humans (IARC, Group 1).
Skin Contact	May cause skin irritation due to drying.
Eye Contact	May cause mechanical eye irritation.
Ingestion	None known
Aggravated Medical Conditions	Individuals with respiratory disease, including but not limited to asthma and bronchitis, or subject to eye irritation, should not be exposed to respirable quartz-bearing dust.
Chronic Effects/Carcinogenicity	Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes-fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness, and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.
	Cancer Status: The International Agency for Research on Cancer (IARC, 1997) concludes that there is sufficient evidence in humans for carcinogenicity of inhaled crystalline silica from occupational sources (IARC Group 1), that carcinogenicity was not detected in all industrial circumstances studied and that carcinogenicity may depend on characteristics of the crystalline silica or on external factors affecting its biological activity. See IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997). The National Toxicology Program (NTP) classifies respirable crystalline silica as "Known to be a human carcinogen" (NTP 9 th Report on Carcinogens, 2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).
Other Information	See "Adverse Effects of Crystalline Silica Exposure" published by the American Thoracic Society Medical Section of the American Lung Association, American Journal of Respiratory and Critical Care Medicine, Volume 155, pages 761-768 (1997).

Toxicity Tests

Not determined
Not determined
Not determined
Not classified
Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997).
Not classified
Not classified

SECTION 12 — ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air)	Not determined	
Persistence/Degradability	Not determined	
Bio-accumulation	Not determined	
Ecotoxicological Information		
Acute Fish Toxicity	Not determined	
Acute Crustaceans Toxicity	Not determined	
Acute Algae Toxicity	Not determined	
Chemical Fate Information	Not determined	
Other Information	Not applicable	

SECTION 13 — DISPOSAL CONSIDERATIONS

If product should become a waste dispose in a licensed landfill according to
federal, state and local regulations.

Contaminated Packaging

Disposal Method

Follow all applicable national or local regulations.

SECTION 14 — TRANSPORT INFORMATION

Land Transportation			
DOT	Not regulated as dangerous goods		
Canadian TDG	Not regulated as dangerous goods		
ADR	Not regulated as dangerous goods		
Air Transportation			
ICAO/IATA	Not regulated as dangerous goods		
Sea Transportation			
IMDG	Not regulated as dangerous goods		
Other Transportation Information Labels	None		

SECTION 15 — REGULATORY INFORMATION

US Regulations

US TSCA Inventory	All components listed on inventory or are exempt.			
EPA SARA Title III Extremely Hazardous Substances	Not applicable			
EPA SARA (311, 312) Hazard Class	Chronic Health Hazard			
EPA SARA (313) Chemicals	This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372).			
EPA CERCLA/Superfund Reportable Spill Quantity	Not applicable			
EPA RCRA Hazardous Waste Classification	If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.			
California Proposition 65	This product contains crystalline silica (respirable) which is a substance known to the State of California to cause cancer.			
Canadian Regulations				
Canadian DSL Inventory	All components listed on inventory or are exempt.			
WHMIS Hazard Class	This product contains crystalline silica (respirable) and is classified as a Class D, Division 2, Subdivision A substance.			
SECTION 16 — OTHER INFORMATION				

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 03/18/2015

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 09/08/2021

DISCLAIMER

All information presented herein is believed to be accurate; however, it is the user's responsibility to determine in advance of need that 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.