

WYO-BEN, INC.

SAFETY DATA SHEET

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: Chemical Family: Application:	TRU-BORE® Mineral Drilling Fluid Ad	dditive
Manufacturer/Supplier:	Wyo-Ben, Inc. 1345 Discovery Billings, MT 59	
Emergency Phone Number	Telephone: Facsimile: CHEMTREC [®]	800.548.7055 406.656.0748 800.424.9300

SECTION 2 — HAZARD IDENTIFICATION

Hazard Classification:	Carcinogenicity
Signal Word:	Warning
Hazard Overview:	CHRONIC HEALTH HAZARD Breathing crystalline silica can cause lung disease, including silicosis and lung cancer.
Hazard Symbol:	Health Hazard
Precautionary Statements:	Promptly clean up spills to avoid creating airborne dust. Avoid breathing airborne dust. Wear a NIOSH/MSHA European Standard En149 respirator, or equivalent certified for silica bearing dust, when using this product. Product is slippery when wet.
Hazards Not Otherwise	
Classified:	None known.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

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

SECTION 4 — FIRST AID N	1EASURES
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.

Skin:

Wash with soap and water until clear. Seek medical attention if irritation persists.

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Eyes:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.
Ingestion:	No adverse effects.
Notes to Physician:	Treat Symptomatically.

SECTION 5 — FIRE FIGHTING MEASURES

Fire Extinguishing Media:	All standard firefighting media. (Caution slippery when wet.)
Special Exposure Hazards:	Not applicable
Special Protective Equipment for Firefighters:	Not applicable
NFPA Ratings:	Health 0, Flammability 0, Reactivity 0
SECTION 6 — ACCIDENTAL RELEASE MEAS	
SECTION 0 - ACCIDENTAL RELEASE MEA.	SURES
Personal Precautionary Measures:	URES Use appropriate protective equipment. Avoid creating and breathing dust.

SECTION 7 — HANDLING AND STORAGE

Handling Precautions:	This product contains quartz which may become airborne. Avoid breathing dust. Avoid creating dusty conditions. 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. Promptly clean up spills to avoid breathing airborne dust.
Storage Information:	Use good housekeeping in storage and work areas to prevent accumulation of dust. Close container when not in use. Do not reuse empty container.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Substances	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

*More restrictive exposure limits may be enforced by some states, agencies, or other authorities.

Engineering Controls:	Use approved industria applicable exposure lin	al ventilation and local exhaust as require nits.	ed to maintain exposures below
Personal Protective Equipment	and proper use of pers	and work practices cannot prevent excest onal protective equipment should be de ified professional based on the specific a	termined by an industrial
Respiratory Protection:	Not normally needed. approved for silica bea	If significant exposures are possible use ring dust.	NIOSH/MSHA respirator
Hand Protection: TRU-BORE [®] 1.800.548.7055	Normal work gloves.	Page 2 of 6	WYO-BEN INC.

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:	Solid
Color:	Light tan to gray as dry powder
Odor:	Odorless
pH:	8 – 10 (5% aqueous solution)
Specific Gravity @ 20 C (Water=1):	2.45 – 2.55
Density @ 20 C (lbs/gallon):	Not determined
Bulk Density @ 20 C (lbs/ft³):	49 – 55
Boiling Point/Range (F):	Not applicable
Boiling Point/Range (C):	Not applicable
Freezing Point/Range (F):	Not applicable
Freezing Point/Range (C):	Not applicable
Vapor Pressure @ 20 C (mmHg):	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):	240
Viscosity, Kinematic @ 20 C (centistrokes):	Notdetermined
Partition Coefficient/n-Octanol/Water:	Not applicable
Molecular Weight (g/mole):	Not applicable
Flash Point/Range (F):	Not applicable
Flash Point/Range (C):	Not applicable
Flash Point Method:	Not applicable
Autoignition Temperature (F):	Not applicable
Autoignition Temperature (C):	Not applicable
Flammability Limits in Air – Lower (%):	Not applicable
Flammability Limits in Air – Upper (%):	Not applicable
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SECTION 10 — STABILITY AND REACTIVITY

Stability Data:	Stable
Hazardous Polymerization:	Will Not Occur
Conditions to Avoid:	None anticipated
Incompatibility (Materials to Avoid):	Hydrofluoric Acid
Hazardous Decomposition Products:	None
Additional Guidelines:	Not applicable

SECTION 11 — TOXICOLOGICAL INFORMATION

Principle Route of Exposure:	Eye or skin contact, inhalation.	
Inhalation:	Inhaled crystalline silica in the form or quarts carcinogenic to humans (IARC, Group 1).	z from occupational sources is
Skin Contact:	May cause mechanical skin irritation.	
Eye Contact:	May cause eye irritation.	
Ingestion:	None known	
Aggravated Medical Conditions:	Individuals with respiratory disease, including bronchitis, or subject to eye irritation, should quartz-bearing dust.	
Chronic Effects/Carcinogenicity:	Silicosis: Excessive inhalation of respirable crysprogressive, disabling, and sometimes-fatal Symptoms include cough, shortness of breathillness, and reduced pulmonary function. The smoking. Individuals with silicosis are predisposed	lung disease called silicosis. h, wheezing, non-specific chest his disease is exacerbated by
	Cancer Status: The International Agency for Reconcludes that there is sufficient evidence in inhaled crystalline silica from occupational carcinogenicity was not detected in all indust that carcinogenicity may depend on character on external factors affecting its biological act Silica, Some Silicates and Organic Fibres (June Program (NTP) classifies respirable crystalline carcinogen" (NTP 9 th Report on Carcinogens, 2 of Governmental Industrial Hygienists (ACG quartz, as a suspected human carcinogen (A2).	humans for carcinogenicity of sources (IARC Group 1), that trial circumstances studied and ristics of the crystalline silica or rivity. See IARC Monograph 68, 1997). The National Toxicology silica as "Known to be a human 000). The American Conference
Other Information:	See "Adverse Effects of Crystalline Silica Expos Thoracic Society Medical Section of the Ameri Journal of Respiratory and Critical Care Medici (1997).	can Lung Association, American
Toxicity Tests		
Oral Toxicity:	Not determined	
Dermal Toxicity:	Not determined	
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Inhalation Toxicity: Primary Irritation Effect:	Not determined Not determined
Carcinogenicity:	Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997).
Genotoxicity:	Not determined
Reproductive/Developmental Toxicity:	Not determined

SECTION 12 — ECOLOGICAL INFORMATION

Mobility (Wate	r/Soil/Air):	Not determined
Persistence/Degradability:		Not determined
Bio-accumulati	on:	Not determined
Ecotoxicologica	l Information	
	Acute Fish Toxicity: Acute Crustaceans Toxicity: Acute Algae Toxicity:	Not determined Not determined Not determined
Chemical Fate I	nformation:	Not determined
Other Informat	ion:	Not applicable

SECTION 13 — DISPOSAL CONSIDERATIONS	
Disposal Method: If product should become a waste dispose in a licensed landfill according federal, state and local regulations.	
Contaminated Packaging:	Follow all applicable national or local regulations.

SECTION 14 — TRANSPORT INFORMATION

Land Transportation

DOT – Not Restricted Canadian TDG – Not Restricted ADR – Not Restricted

Air Transportation

ICAO/IATA - Not Restricted

Sea Transportation

IMDG - Not Restricted

Other Transportation Information

Labels: None

SECTION 15 — REGULATORY INFORMATION

US Regulations

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SECTION 16 — OTHER INFORMATION

Prepared	03/18/2015
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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.