

# WYO-BEN, INC.

# SAFETY DATA SHEET

# SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: TRU-BORE®
Chemical Family: Mineral
Application: Drilling Fluid

Manufacturer/Supplier: 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** 

**Emergency Phone Number** 

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.

Hazards Not Otherwise

Classified: May cause eye and respiratory irritation.

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#### SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Substances	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.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get

medical attention if irritation persists.

Skin: 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 None for product. Wear self-contained breathing apparatus (SCBA) and full

protective gear.

Precautions for Firefighters: 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 Information: Use good housekeeping in storage and work areas to prevent accumulation of dust. Close

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#### 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 <sup>3</sup>	<u>10 mg/m³</u> %SiO2 + 2

<sup>\*</sup> 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

Color: Light tan to gray as dry powder

Odor: Odorless

pH: 8 – 10 (5% aqueous suspension)

Specific Gravity @ 20 C (Water=1): 2.45 – 2.55

Density @ 20 C (lbs/gallon): Not determined

Bulk Density @ 20 C (lbs/ft<sup>3</sup>): 49 - 70

Boiling Point/Range (F/C):

Freezing Point/Range (F/C):

Vapor Pressure @ 20 C (mmHg):

Vapor Density (Air=1):

Not applicable

Not applicable

Percent Volatiles: Not applicable

Evaporation Rate (Butyl Acetate=1):

Solubility in Water (g/100ml): Insoluble, forms colloidal suspension

Solubility in Solvents (g/100ml): Not applicable

VOCs (lbs/gallon): Not applicable

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Not applicable

Viscosity, Dynamic @ 20 C (centipoise): 3.5 – 12.5 (6% agueous suspension)

Viscosity, Kinematic @ 20 C (centistrokes): 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 (%): Not applicable Flammability Limits in Air – Upper (%): Not applicable

#### SECTION 10 — STABILITY AND REACTIVITY

Reactivity: Nonreactive

Chemical Stability: Stable

Possibility of Hazardous Reactions: Will not occur.

Conditions to Avoid: None

anticipated Incompatibility (Materials to Avoid): None known

Hazardous Decomposition Products: None

Additional Guidelines: Not applicable

#### SECTION 11 — TOXICOLOGICAL INFORMATION

Principle Route of Exposure: Eye or skin contact, inhalation.

Symptoms Related to the Physical, Chemical and 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,

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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<sup>th</sup> 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** 

Oral Toxicity: Not determined

Dermal Toxicity: Not determined

Inhalation Toxicity: Not determined

Primary Irritation Effect: Not classified

Carcinogenicity: Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres

(June 1997).

Genotoxicity: Not classified Reproductive/Developmental Toxicity: Not classified

#### SECTION 12 — ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air):

Persistence/Degradability:

Bio-accumulation:

Not determined

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

Disposal Method: If product should become a waste dispose in a licensed landfill according to

federal, state and local regulations.

Contaminated Packaging: 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

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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.

Not applicable

**EPA SARA Title III Extremely** 

**Hazardous Substances** 

EPA SARA (311, 312)

**Hazard Class** 

Chronic Health Hazard

This product does not contain a toxic chemical for routine annual "Toxic EPA SARA (313) Chemicals

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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## 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.

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