


# Safety Data Sheet

Section 1. Identification	
<b>Product Identifier</b>	OnyxBlock
	<b>Revision: 2</b> <b>Effective Date: 2018/08/07</b>
<b>Initial Supplier Identifier</b>	Blackstone Drilling Fluids Limited 500-215 9 Avenue SW Calgary, AB, T2P 1K3 Tel: 403-262-5955
<b>Recommended Use</b>	Drilling fluid additive
<b>Restrictions on Use</b>	None
<b>Other means of Identification (Product family, synonyms, etc.)</b>	Drilling fluid additive
<b>24 Hour Emergency</b>	CAN-UTEC (226-8832), 613-996-6666 or *666 on a cellular phone.

Section 2. Hazard Identification	
<b>Classification</b>	Carcinogenicity, Category 1A Specific Target Organ Toxicity (Repeated Exposure), Category 1
<b>Label Elements</b>	
Symbol(s)	
Signal Word	Danger
Hazard Statement(s)	May cause cancer. Causes damage to organs through prolonged or repeated exposure.
Precautionary Prevention Statement(s)	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Wear protective gloves, protective clothing and eye protection.
Precautionary Response Statement(s)	If exposed or concerned: seek medical attention. Seek medical attention if you feel unwell.
Precautionary Storage Statement(s)	N/A
Precautionary Disposal Statement(s)	Dispose of contents/container in accordance with applicable regional, national, and local laws and regulations.
<b>Other Hazards</b>	N/A

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Section 3. Composition / Information on Ingredients			
Chemical Name	Common Name or Synonyms	CAS NO. and Other Unique Identifiers	% by weight
Quartz (SiO <sub>2</sub> )	Quartz	14808-60-7	0-1.2

Section 4. First-Aid Measures	
<b>Inhalation</b>	Call a poison center or doctor if you feel unwell.
<b>Skin Contact</b>	Wash with plenty of water. Call a poison center or doctor if you feel unwell.
<b>Eye Contact</b>	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center or doctor if you feel unwell.
<b>Ingestion</b>	Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
<b>Most Important Symptoms and Effects Both Acute and Delayed</b>	May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Acute pneumoconiosis from overwhelming exposure to Silica (Quartz, SiO <sub>2</sub> ) dust has occurred. Coughing and irritation of throat are early symptoms. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision. May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching. May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.
<b>Immediate Medical Attention and Special Treatment</b>	Treat symptomatically and seek medical attention.

Section 5. Fire-Fighting Measures	
<b>Suitable Extinguishing Media</b>	Small Fire: Dry chemical, CO <sub>2</sub> , water spray or regular foam. Large Fire: Water spray, fog, or regular foam. Move containers from fire area if you can do it without risk.
<b>Unsuitable Extinguishing Media</b>	N/A
<b>Specific Hazards Arising from the Product</b>	Products of combustion: Oxides of carbon.
<b>Special protective equipment and precautions for fire-fighters</b>	Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6. Accidental Release Measures	
<b>Personal Precautions</b>	Do not touch or walk through spilled material.
<b>Protective Equipment</b>	Use personal protection recommended in Section 8 of this SDS.
<b>Emergency Procedures</b>	Evacuate all unnecessary personnel.
<b>Methods and Materials for Containment and Clean-Up</b>	Do not flush to sewer or allow to enter waterways. Sweep up and shovel into suitable containers for disposal.

Section 7. Handling and Storage	
<b>Precautions For Safe Handling</b>	Do not swallow. Do not breathe dust. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. See Section 8 for information on Personal Protective Equipment.
<b>Conditions For Safe Storage</b>	Store away from incompatible materials. Keep out of the reach of children
<b>Incompatible Materials</b>	Strong bases. Strong oxidizers.

Section 8. Exposure Controls and Personal Protection	
<b>Control Parameters</b>	<p><b>Component</b></p> <p>Dust [CAS No. Not applicable]  <b>ACGIH:</b> 10 mg/m<sup>3</sup> (TWA) (Inhalable.); 3 mg/m<sup>3</sup> (TWA) (Respirable.); For Particles (Insoluble or Poorly Soluble) Not Otherwise Specified  <b>OSHA:</b> 15 mg/m<sup>3</sup> (Total dust) (TWA), 5 mg/m<sup>3</sup> (Respirable fraction) (TWA); For Particulates Not Otherwise Regulated (PNOR).</p> <p>Quartz [CAS No. 14808-60-7]  <b>ACGIH:</b> 0.025 mg/m<sup>3</sup> (TWA); A2; Respirable fraction (2009)  <b>OSHA:</b> 30 / (%SiO<sub>2</sub> + 2) mg/m<sup>3</sup> Quartz (Total dust) (TWA), 10 / (%SiO<sub>2</sub> + 2) mg/m<sup>3</sup> Quartz (Respirable) &amp; 250 / (%SiO<sub>2</sub> + 5) mppcf Quartz (Respirable) (TWA); See Table Z3.            0.1 mg/m<sup>3</sup> (As respirable quartz) (TWA) [Vacated];</p>
<b>Appropriate Engineering Controls</b>	Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, gas, etc.) below recommended exposure limits.
<b>Individual Protective Measures</b>	
<b>Eye / Face Protection</b>	Wear safety glasses. Indirect vented, dust-tight goggles are required if dust is generated when handling this product.
<b>Hand Protection</b>	Wear protective gloves. Consult manufacturer specifications for further information.
<b>Respiratory protection</b>	If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying

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respirator that meets the requirements of CSA Standard CAN/CSA-Z94.4-11, with particulate filter, or self-contained breathing apparatus must be used. Supplied air breathing apparatus must be used when oxygen concentrations are low or if airborne concentrations exceed the limits of the air-purifying respirators.

<b>Section 9. Physical and Chemical Properties</b>	
<b>Physical state</b>	Solid
<b>Color</b>	Grey
<b>Odour</b>	Odourless
<b>Melting Point / Freezing point</b>	No data
<b>Boiling Point and Boiling Range</b>	No data
<b>Flammability</b>	See section 5
<b>Lower Flammable or Explosive Limit</b>	No data
<b>Upper Flammable or Explosive Limit</b>	No data
<b>Flash point</b>	No data
<b>Auto-ignition Temperature</b>	No data
<b>Decomposition Temperature</b>	No data
<b>pH</b>	No data
<b>Kinematic viscosity</b>	No data
<b>Solubility</b>	Insoluble in water.
<b>Partition co-efficient, n-Octanol/Water</b>	No data
<b>Vapour pressure</b>	No data
<b>Relative vapour density</b>	No data
<b>Particle Characteristics</b>	A composite mixture of fine to coarse particles.

<b>Section 10. Stability and Reactivity</b>	
<b>Reactivity</b>	Contact with incompatible materials. Sources of ignition. Exposure to heat.
<b>Chemical Stability</b>	Stable under normal storage conditions.
<b>Possibility of Hazardous Reactions</b>	No data
<b>Conditions to Avoid</b>	Contact with incompatible materials. Sources of ignition. Exposure to heat.
<b>Incompatible Materials</b>	Strong bases. Strong oxidizers.
<b>Hazardous Decomposition Products</b>	No data

<b>Section 11. Toxicological Information</b>	
<b>Likely Routes of Exposure</b>	
<b>Symptoms related to</b>	

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<b>physical, chemical, and toxicological characteristics</b>	
Inhalation:	May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. Acute pneumoconiosis from overwhelming exposure to Silica (Quartz, SiO <sub>2</sub> ) dust has occurred. Coughing and irritation of throat are early symptoms.
Ingestion:	May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.
Skin:	May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.
Eyes:	May cause eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.
<b>Delayed and immediate effects</b>	All listed above may be delayed and/or immediate.
<b>Chronic effects from short term exposure</b>	Skin. Eyes. Gastrointestinal tract. Respiratory system. Lungs. Hazardous by OSHA/WHMIS criteria. May cause chronic effects. Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to Silica (Quartz, SiO <sub>2</sub> ) can cause silicosis, a form of lung scarring that can cause shortness of breath, reduced lung function, and in severe cases, death.
<b>Chronic effects from long term exposure</b>	Skin. Eyes. Gastrointestinal tract. Respiratory system. Lungs. Hazardous by OSHA/WHMIS criteria. May cause chronic effects. Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to Silica (Quartz, SiO <sub>2</sub> ) can cause silicosis, a form of lung scarring that can cause shortness of breath, reduced lung function, and in severe cases, death.
<b>Acute Toxicity Estimates (ATE)</b>	
Chemical name	Quartz
LD50 Oral	No data
LD50 Dermal	No data
LC50 Inhalation	No data

<b>Section 12. Ecological Information</b>	
<b>Ecotoxicity</b>	No data
<b>Persistence and Degradability</b>	No data
<b>Bioaccumulative Potential</b>	No data
<b>Mobility in Soil</b>	No data
<b>Other adverse effects</b>	No data

## Section 13. Disposal considerations

<b>Disposal Considerations</b>	Disposal should be in accordance with applicable regional, national, and local laws and regulations. Local regulations may be more stringent than regional or national requirements.
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## Section 14. Transport Information

Not regulated under international TDG regulations.

<b>UN Number</b>	N/A
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<b>UN Proper Shipping Name</b>	N/A
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<b>Transport Hazard Class(es)</b>	N/A
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<b>Packaging Group</b>	N/A
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<b>Environmental Hazards</b>	N/A
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<b>Special Precaution</b>	N/A
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## Section 15. Regulatory Information

**Safety, health, and environmental regulations specific to product**

**US Regulations**

The components of this product follow the chemical notification requirements of TSCA. This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Canada (DSL)**

The components of this product follow the chemical notification requirements of the NSN Regulations under CEPA, 1999.

Section 16. Other Information	
<b>Prepared by:</b>	Blackstone Drilling Fluids Ltd. Technical Department
<b>Date Prepared:</b>	2018/08/07
<b>Date of Latest Revision:</b>	2024/04/18
<b>Revision Notes:</b>	Updated formatting, address, and emergency contact info in Section 1. All sections reviewed and revised in accordance with current WHMIS standard requirements.

**Disclaimer:**

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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