


Safety Data Sheet

Section 1. Identification	
Product Identifier	OnyxBlock
	Revision: 3 Effective Date: 2025/12/02
Initial Supplier Identifier	Blackstone Drilling Fluids Limited Suite 700-215 9 Avenue SW Calgary, AB, T2P 1K3 Tel: 403-262-5955
Recommended Use	Drilling fluid additive
Restrictions on Use	None
Other means of Identification (Product family, synonyms, etc.)	Drilling fluid additive
24 Hour Emergency	CAN-UTEC (226-8832), 613-996-6666 or *666 on a cellular phone. Contact 403.262.5955. Restrictions: business hours Monday – Friday 8:00AM-4:00PM MST. After business hours you will be forwarded to an on-call service which may be unreachable.

Section 2. Hazard Identification	
Classification	Carcinogenicity, Category 1A Specific Target Organ Toxicity (Repeated Exposure), Category 1
Label Elements	
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.
Other Hazards	N/A

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

Section 4. First-Aid Measures	
Inhalation	Call a poison center or doctor if you feel unwell.
Skin Contact	Wash with plenty of water. Call a poison center or doctor if you feel unwell.
Eye Contact	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.
Ingestion	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.
Most Important Symptoms and Effects Both Acute and Delayed	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 ₂) 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.
Immediate Medical Attention and Special Treatment	Treat symptomatically and seek medical attention.

Section 5. Fire-Fighting Measures	
Suitable Extinguishing Media	Small Fire: Dry chemical, CO ₂ , 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.
Unsuitable Extinguishing Media	N/A
Specific Hazards Arising from the Product	Products of combustion: Oxides of carbon.
Special protective equipment and precautions for fire-fighters	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	
Personal Precautions	Do not touch or walk through spilled material.
Protective Equipment	Use personal protection recommended in Section 8 of this SDS.
Emergency Procedures	Evacuate all unnecessary personnel.
Methods and Materials for Containment and Clean-Up	Do not flush to sewer or allow to enter waterways. Sweep up and shovel into suitable containers for disposal.

Section 7. Handling and Storage	
Precautions For Safe Handling	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.
Conditions For Safe Storage	Store away from incompatible materials. Keep out of the reach of children
Incompatible Materials	Strong bases. Strong oxidizers.

Section 8. Exposure Controls and Personal Protection	
Control Parameters	<p>Component</p> <p>Dust [CAS No. Not applicable]</p> <p>ACGIH: 10 mg/m³ (TWA) (Inhalable.); 3 mg/m³ (TWA) (Respirable.); For Particles (Insoluble or Poorly Soluble) Not Otherwise Specified</p> <p>OSHA: 15 mg/m³ (Total dust) (TWA), 5 mg/m³ (Respirable fraction) (TWA); For Particulates Not Otherwise Regulated (PNOR).</p> <p>Quartz [CAS No. 14808-60-7]</p> <p>ACGIH: 0.025 mg/m³ (TWA); A2; Respirable fraction (2009)</p> <p>OSHA: 30 / (%SiO₂ + 2) mg/m³ Quartz (Total dust) (TWA), 10 / (%SiO₂ + 2) mg/m³ Quartz (Respirable) & 250 / (%SiO₂ + 5) mppcf Quartz (Respirable) (TWA); See Table Z3.</p> <p>0.1 mg/m³ (As respirable quartz) (TWA) [Vacated];</p>
Appropriate Engineering Controls	Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapour, gas, etc.) below recommended exposure limits.
Individual Protective Measures	
Eye / Face Protection	Wear safety glasses. Indirect vented, dust-tight goggles are required if dust is generated when handling this product.

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Hand Protection	Wear protective gloves. Consult manufacturer specifications for further information.
Respiratory protection	If engineering controls and ventilation are not sufficient to control exposure to below the allowable limits then an appropriate NIOSH/MSHA approved air-purifying 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.

Section 9. Physical and Chemical Properties	
Physical state	Solid
Color	Grey
Odour	Odourless
Melting Point / Freezing point	No data
Boiling Point and Boiling Range	No data
Flammability	See section 5
Lower Flammable or Explosive Limit	No data
Upper Flammable or Explosive Limit	No data
Flash point	No data
Auto-ignition Temperature	No data
Decomposition Temperature	No data
pH	No data
Kinematic viscosity	No data
Solubility	Insoluble in water.
Partition co-efficient, n-Octanol/Water	No data
Vapour pressure	No data
Relative density	1.8 -2.4
Particle Characteristics	A composite mixture of fine to coarse particles.

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

Section 11. Toxicological Information	
Likely Routes of Exposure	
Symptoms related to physical, chemical, and toxicological characteristics	
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 ₂) 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.
Delayed and immediate effects	All listed above may be delayed and/or immediate.
Chronic effects from short term exposure	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 ₂) can cause silicosis, a form of lung scarring that can cause shortness of breath, reduced lung function, and in severe cases, death.
Chronic effects from long term exposure	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 ₂) can cause silicosis, a form of lung scarring that can cause shortness of breath, reduced lung function, and in severe cases, death.
Acute Toxicity Estimates (ATE)	
Chemical name	Quartz
LD50 Oral	No data
LD50 Dermal	No data
LC50 Inhalation	No data

Section 12. Ecological Information	
Ecotoxicity	No data
Persistence and Degradability	No data
Bioaccumulative Potential	No data

Mobility in Soil	No data
Other adverse effects	No data

Section 13. Disposal considerations

Disposal Considerations 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.

Section 14. Transport Information

Not regulated under international TDG regulations.

UN Number N/A

UN Proper Shipping Name N/A

Transport Hazard Class(es) N/A

Packaging Group N/A

Environmental Hazards N/A

Special Precaution N/A

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	
Prepared by:	Blackstone Drilling Fluids Ltd. Technical Department
Date Prepared:	2025/12/02
Date of Latest Revision:	2025/12/02
Revision Notes:	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.

Blackstone Drilling Fluids Ltd. disclaims all expressed or implied warranties of merchantability and fitness for a particular purpose with respect to the product provided.