


# Safety Data Sheet

Section 1. Identification	
<b>Product Identifier</b>	OnyxTone
	<b>Revision: 3</b> <b>Effective Date: 2025/12/02</b>
<b>Initial Supplier Identifier</b>	Blackstone Drilling Fluids Limited Suite 700-215 9 Avenue SW Calgary, AB, T2P 1K3 Tel: 403-262-5955
<b>Recommended Use</b>	Drilling fluid viscosifier
<b>Restrictions on Use</b>	None
<b>Other means of Identification (Product family, synonyms, etc.)</b>	Organophilic clays
<b>24 Hour Emergency</b>	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	
<b>Classification</b>	Carcinogenicity - Category 1
<b>Label Elements</b>	
<b>Symbol(s)</b>	
<b>Signal Word</b>	Danger
<b>Hazard Statement(s)</b>	May cause cancer. May cause damage to organs through prolonged or repeated exposure.
<b>Precautionary Prevention Statement(s)</b>	Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapours/spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary Response Statement(s)</b>	If exposed or concerned, seek medical attention.
<b>Precautionary Storage Statement(s)</b>	Store locked up.

# Safety Data Sheet

<b>Precautionary Disposal Statement(s)</b>	Dispose of contents and containers in accordance with local, provincial and/or federal requirements.
<b>Other Hazards</b>	No data

<b>Section 3. Composition / Information on Ingredients</b>			
<b>Chemical Name</b>	<b>Common Name or Synonyms</b>	<b>CAS NO. and Other Unique Identifiers</b>	<b>% by weight</b>
Quaternary ammonium compounds, bis(hydrogenated tallow alkyl) dimethyl, salts with bentonite	Dimethyl dihydrogenated tallow ammonium chloride, reaction product with bentonite	68953-58-2	99-100
Quartz (SiO <sub>2</sub> )	Quartz	14808-60-7	0-1

<b>Section 4. First-Aid Measures</b>	
<b>Inhalation</b>	Seek medical attention if you feel unwell.
<b>Skin Contact</b>	Wash with plenty of water. Seek medical attention 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. Seek medical attention if you feel unwell.
<b>Ingestion</b>	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. Seek medical attention if you feel unwell.
<b>Most Important Symptoms and Effects Both Acute and Delayed</b>	Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain. May cause eye irritation. 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 diarrhoea.
<b>Immediate Medical Attention and Special Treatment</b>	Symptoms may not appear immediately. Seek medical attention immediately if you feel unwell.

<b>Section 5. Fire-Fighting Measures</b>	
<b>Suitable Extinguishing Media</b>	Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
<b>Unsuitable Extinguishing Media</b>	No data

# Safety Data Sheet

<b>Specific Hazards Arising from the Product</b>	Combustible with oxides of carbon, ammonia, and organic chlorides.
<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.
<b>Emergency Procedures</b>	Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.
<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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust or fumes. 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 locked up. Store away from incompatible materials.
<b>Incompatible Materials</b>	Strong acids. Strong oxidizers.

## Section 8. Exposure Controls and Personal Protection

<b>Control Parameters</b>	<p>Dimethyl dihydrogenated tallow ammonium chloride, reaction product with bentonite [CAS No. 68953-58-2]  <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>	
Eye / Face Protection	Wear safety glasses. Indirect vented, dust-tight goggles are required if dust is generated when handling this product. Follow equipment for eye protection that meets the standards referenced by CSA Standard CAN/CSA-Z94.3-92 and OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.
Hand Protection	Wear protective gloves. Consult manufacturer specifications for further information.
Skin Protection	Wear protective clothing.
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.
Hygiene measures	Handle according to established industrial hygiene and safety practices. Consult a competent industrial hygienist to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.

<b>Section 9. Physical and Chemical Properties</b>	
<b>Physical state</b>	Solid (powder)
<b>Color</b>	Off white
<b>Odour</b>	None
<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>	Not soluble in water.
<b>Partition co-efficient, n-Octanol/Water</b>	No data
<b>Vapour pressure</b>	No data
<b>Relative density</b>	1.7
<b>Particle Characteristics</b>	No data

Section 10. Stability and Reactivity	
<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 acids. Strong oxidizers.
<b>Hazardous Decomposition Products</b>	No data

Section 11. Toxicological Information	
<b>Likely Routes of Exposure &amp; symptoms related to physical, chemical, and toxicological characteristics including delayed and immediate effects.</b>	
Inhalation	May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.
Ingestion	May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhoea.
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>Chronic effects from short term exposure</b>	May cause harmful effects on skin, eyes, gastrointestinal tract, respiratory system, and lungs.
<b>Chronic effects from long term exposure</b>	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	No data
LD50 Oral	No data
LD50 Dermal	No data
LC50 Inhalation	No data

Section 12. Ecological Information	
<b>Ecotoxicity</b>	Daphnia: LC50 > 30000 mg/L, 48 hr, OECD 202; Algae: EC50 > 10000 mg/L, 96 hr, OECD 201.

# Safety Data Sheet

<b>Persistence and Degradability</b>	Insignificant biodegradability.
<b>Bioaccumulative Potential</b>	No data
<b>Mobility in Soil</b>	No data
<b>Other adverse effects</b>	No data

<b>Section 13. Disposal considerations</b>	
<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.

<b>Section 14. Transport Information</b>	
This produce is not regulated under Canadian TDG regulations.	
<b>UN Number</b>	No data
<b>UN Proper Shipping Name</b>	No data
<b>Transport Hazard Class(es)</b>	No data
<b>Packaging Group</b>	No data
<b>Environmental Hazards</b>	No data
<b>Special Precaution</b>	No data

<b>Section 15. Regulatory Information</b>	
<b>Safety, health, and environmental regulations specific to product</b>	<p><b>US (TSCA)</b>          The components of this product follow the chemical notification requirements of TSCA.</p> <p><b>Canada (DSL)</b>          The components of this product follow the chemical notification requirements of the NSN Regulations under CEPA, 1999.</p>

<b>Section 16. Other Information</b>	
<b>Prepared by:</b>	Blackstone Drilling Fluids Ltd. Technical Department
<b>Date Prepared:</b>	2025/12/02
<b>Date of Latest Revision:</b>	2025/12/02
<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

# Safety Data Sheet

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.

**Continued on Next Page**