


Safety Data Sheet

Section 1. Identification		
Product Identifier	OnyxTone	Revision: 2 Effective Date: 2018/12/18
Initial Supplier Identifier	Blackstone Drilling Fluids Limited 500-215 9 Avenue SW Calgary, AB, T2P 1K3 Tel: 403-262-5955	
Recommended Use	Drilling fluid viscosifier	
Restrictions on Use	None	
Other means of Identification (Product family, synonyms, etc.)	Organophilic clays	
24 Hour Emergency	CAN-UTEC (226-8832), 613-996-6666 or *666 on a cellular phone.	

Section 2. Hazard Identification	
Classification	Carcinogenicity - Category 1
Label Elements	
Symbol(s)	
Signal Word	Danger
Hazard Statement(s)	May cause cancer. May cause 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/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.
Precautionary Response Statement(s)	If exposed or concerned, seek medical attention.
Precautionary Storage Statement(s)	Store locked up.
Precautionary Disposal Statement(s)	Dispose of contents and containers in accordance with local, provincial and/or federal requirements.
Other Hazards	No data

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Section 3. Composition / Information on Ingredients			
Chemical Name	Common Name or Synonyms	CAS NO. and Other Unique Identifiers	% by weight
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 ₂)	Quartz	14808-60-7	0-1

Section 4. First-Aid Measures	
Inhalation	Seek medical attention if you feel unwell.
Skin Contact	Wash with plenty of water. Seek medical attention 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. Seek medical attention if you feel unwell.
Ingestion	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.
Most Important Symptoms and Effects Both Acute and Delayed	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.
Immediate Medical Attention and Special Treatment	Symptoms may not appear immediately. Seek medical attention immediately if you feel unwell.

Section 5. Fire-Fighting Measures	
Suitable Extinguishing Media	Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
Unsuitable Extinguishing Media	No data
Specific Hazards Arising from the Product	Combustible with oxides of carbon, ammonia, and organic chlorides.
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

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(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.
Emergency Procedures	Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.
Methods and Materials for Containment and Clean-Up	Do not flush to sewer or allow to enter waterways. Sweep and shovel into suitable containers for disposal.

Section 7. Handling and Storage	
Precautions For Safe Handling	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.
Conditions For Safe Storage	Store locked up. Store away from incompatible materials.
Incompatible Materials	Strong acids. Strong oxidizers.

Section 8. Exposure Controls and Personal Protection	
Control Parameters	<p>Dimethyl dihydrogenated tallow ammonium chloride, reaction product with bentonite [CAS No. 68953-58-2] ACGIH: 10 mg/m³ (TWA) (Inhalable.); 3 mg/m³ (TWA) (Respirable.); For Particles (Insoluble or Poorly Soluble) Not Otherwise Specified 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] ACGIH: 0.025 mg/m³ (TWA); A2; Respirable fraction (2009) 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. 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. Follow equipment for eye protection that meets the standards referenced by CSA Standard CAN/CSA-

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	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.

Section 9. Physical and Chemical Properties	
Physical state	Solid (powder)
Color	Light cream
Odour	None
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	Not soluble in water.
Partition co-efficient, n-Octanol/Water	No data
Vapour pressure	No data
Relative vapour density	0.4 to 0.6 kg/m ³
Particle Characteristics	No data

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 acids. Strong oxidizers.
Hazardous Decomposition Products	No data

Section 11. Toxicological Information

Likely Routes of Exposure & symptoms related to physical, chemical, and toxicological characteristics including delayed and immediate effects.

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.
Chronic effects from short term exposure	May cause harmful effects on skin, eyes, gastrointestinal tract, respiratory system, and lungs.
Chronic effects from long term exposure	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	No data
LD50 Oral	No data
LD50 Dermal	No data
LC50 Inhalation	No data

Section 12. Ecological Information

Ecotoxicity	Daphnia: LC50 > 30000 mg/L, 48 hr, OECD 202; Algae: EC50 > 10000 mg/L, 96 hr, OECD 201.
Persistence and Degradability	Insignificant biodegradability.
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	
This produce is not regulated under Canadian TDG regulations.	
UN Number	No data
UN Proper Shipping Name	No data
Transport Hazard Class(es)	No data
Packaging Group	No data
Environmental Hazards	No data
Special Precaution	No data

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

Section 16. Other Information	
Prepared by:	Blackstone Drilling Fluids Ltd. Technical Department
Date Prepared:	2018/12/18
Date of Latest Revision:	2024/04/29
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.

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