

SAFETY DATA SHEET

**Section 1: IDENTIFICATION**

<b>Product Identifier:</b>	Sea Mud
<b>Other Means of Identification:</b>	Sepiolite Clay
<b>Product Family:</b>	Viscosifier
<b>Recommended Use:</b>	Drilling Fluids Additive
<b>Supplier:</b>	Bri-Chem Supply Ltd. 27075 Acheson Road Acheson, AB T7X 6B1
<b>Phone Number:</b>	780-962-9490
<b>Emergency Phone:</b>	CHEMTREC 1-800-424-9300, 24/7

**Section 2: HAZARD(S) IDENTIFICATION**

<b>Classification:</b>	Carcinogenicity - Category 1B; Specific target organ toxicity (single exposure) - Category 3; Specific target organ toxicity (repeated exposure) - Category 1.
<b>Label Elements:</b>	
<b>Signal Word:</b>	DANGER!
<b>Hazard Statement(s):</b>	May cause respiratory irritation. May cause drowsiness or dizziness. May cause cancer. Causes damage to organs through prolonged or repeated exposure.
<b>Precautionary Statement(s)</b>	
<b>Prevention:</b>	Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
<b>Response:</b>	IF Inhaled: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical advice or attention.
<b>Storage:</b>	Store in a well-ventilated place. Keep container tightly closed. Store locked up.
<b>Disposal:</b>	Dispose of contents and container in accordance with local, regional, national and international regulations.
<b>Other Hazards:</b>	Product is EXTREMELY slippery when wet!

SAFETY DATA SHEET

**Section 3: COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Name	CAS No.	%	Other Identifiers
Sepiolite (Mg <sub>2</sub> H <sub>2</sub> (SiO <sub>3</sub> ) <sub>3</sub> .xH <sub>2</sub> O)	63800-37-3		
Silica, quartz	14808-60-7		

**Section 4: FIRST-AID MEASURES**

**First-Aid Measures**

<b>Inhalation:</b>	Move to fresh air.
<b>Skin Contact:</b>	Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes. If skin irritation occurs, get medical advice or attention.
<b>Eye Contact:</b>	Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If eye irritation persists, get medical advice or attention.
<b>Ingestion:</b>	Rinse mouth and then drink plenty of water. Never give anything by mouth to an unconscious or convulsing victim. Call a Poison Centre or doctor if you feel unwell.

**Most Important Symptoms and Effects, Acute and Delayed**

<b>If in Eyes:</b>	May cause slight irritation as a "foreign object". Tearing, blinking and mild temporary pain may occur as particles are rinsed from the eye by tears.
--------------------	---

**Immediate Medical Attention and Special Treatment**

<b>Special Instructions:</b>	Treat according to symptoms (decontamination, vital functions); no known specific antidote.
------------------------------	---

**Section 5: FIRE-FIGHTING MEASURES**

**Extinguishing Media**

<b>Suitable Extinguishing Media:</b>	Use dry powder, foam. Contaminated extinguishing water must be disposed of in accordance with official regulations.
<b>Specific Hazards Arising from The Product:</b>	Does not burn. The degree of risk is governed by the burning substance and the fire conditions.
<b>Special Protective Equipment and Precautions for Fire-fighters:</b>	Product is EXTREMELY slippery when wet. A full-body encapsulating chemical protective suit with positive pressure SCBA may be necessary.

**Section 6: ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions, Protective Equipment, and Emergency Procedures</b>	Avoid dust generation. Ensure adequate ventilation. Use the personal protective equipment recommended in Section 8 of this safety data sheet.
---	---

SAFETY DATA SHEET

<b>Environmental Precautions:</b>	Contain contaminated water/firefighting water. Do not allow into any sewer, on the ground or into any waterway.
<b>Methods and Materials for Containment and Cleaning Up:</b>	Stop or reduce leak if safe to do so. Avoid generating dust. Small spill: Pick up with suitable appliance and put into approved DOT containers for disposal. Large spill: Contain with dust-binding material and dispose of.

## Section 7: HANDLING AND STORAGE

<b>Precautions for Safe Handling:</b>	Only use where there is adequate ventilation. Avoid generating dusts. Good housekeeping is extremely important. Prevent dust accumulation on ALL surfaces including ceiling rafters and other hidden surfaces. Handle in accordance with good industrial hygiene and safety practice. It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling. Thoroughly clean clothing, shoes and leather goods before reuse or dispose of safely.
<b>Conditions for Safe Storage:</b>	Store in an area that is: dry, well-ventilated. Prevent dust build-up on ALL surfaces. Clean frequently. Avoid dry-sweeping. Use vacuum cleaner equipped with high efficiency filter. Keep container tightly closed.

## Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>Appropriate Engineering Controls:</b>	Use local exhaust ventilation and enclosure, if necessary, to control amount in the air. Do not permit dust to collect on walls, floors, sills, ledges, machinery or equipment.
<b>Individual Protection Measures</b>	
<b>Eye/Face Protection:</b>	Safety glasses with side shields. Do not wear contact lenses.
<b>Skin Protection:</b>	Wear chemical protective clothing e.g. gloves, aprons, boots.
<b>Respiratory Protection:</b>	Wear a air-purifying respirator with an approved cartridge to provide protection for respirable crystalline silica which may be contained in the sepiolite clay.

## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

<b>Appearance:</b>	Grey – tan powder. Particle Size: Not applicable
<b>Odour:</b>	Odourless
<b>Odour Threshold:</b>	Not applicable
<b>pH:</b>	Not applicable
<b>Melting Point/Freezing Point:</b>	Not applicable (melting); Not applicable (freezing)
<b>Initial Boiling Point/Range:</b>	> 537°C

SAFETY DATA SHEET

<b>Flash Point:</b>	Not applicable
<b>Evaporation Rate:</b>	Not applicable
<b>Upper/Lower Flammability or Explosive Limit:</b>	Not applicable (upper); Not applicable (lower)
<b>Vapour Pressure:</b>	Not available
<b>Vapour Density (Air=1):</b>	Not applicable
<b>Relative Density (Water=1):</b>	1.9 - 2.4 at 20°C
<b>Solubility:</b>	Insoluble in water; Not applicable (in other liquids)
<b>Partition Coefficient, n-Octanol/Water (Log Kow):</b>	Not applicable
<b>Auto-Ignition Temperature:</b>	Not applicable
<b>Decomposition Temperature:</b>	Not applicable
<b>Viscosity:</b>	Not applicable (kinematic)
<b>Other Information</b>	
<b>Physical State:</b>	Solid
<b>Molecular Formula:</b>	Not available
<b>Molecular Weight:</b>	Not available
<b>Bulk Density:</b>	720 – 880 kg/m <sup>3</sup>
<b>Surface Tension:</b>	Not applicable
<b>Critical Temperature:</b>	Not applicable
<b>Electrical Conductivity:</b>	Not applicable
<b>Vapour Pressure at 50°C:</b>	Not applicable
<b>Saturated Vapour Concentration:</b>	Not applicable

**Section 10: STABILITY AND REACTIVITY**

<b>Chemical Stability:</b>	The product is chemically stable.
<b>Conditions to Avoid:</b>	Generation of dust.

**Section 11: TOXICOLOGICAL INFORMATION**

<b>Skin Corrosion/Irritation:</b>	(Silica, quartz) human experience shows mild irritation. Possible drying resulting in dermatitis.
<b>Serious Eye Damage/Irritation:</b>	May cause slight irritation as a "foreign object". Tearing, blinking and mild temporary pain may occur as particles are

SAFETY DATA SHEET

rinsed from the eye by tears. May cause slight but temporary irritation (crystalline silica).

**STOT (Specific Target Organ Toxicity) – Single Exposure**

**Inhalation:**

This product may contain >0.1% crystalline silica. Repeated exposure to high concentrations results in silicosis, a lung disease characterized by coughing, difficult breathing, wheezing, scarring of the lungs and repeated, non-specific chest illnesses. May cause irritation of the nose, throat and respiratory passages.

**STOT (Specific Target Organ Toxicity) – Repeated Exposure:**

Long-term inhalation may cause silicosis, a progressive, disabling and sometimes fatal lung disease. Chronic inhalation exposure to crystalline silica quartz has been observed to cause lymph node effects, kidney effects and auto-immune disease. Repeated or prolonged exposure to respirable crystalline silica which may be contained in sepiolite clay dust may cause delayed lung injury silicosis. Silicosis is a form of disabling pulmonary fibrosis which may be progressive.

**Carcinogenicity:**

(Silica, quartz)  
IARC: Group 1 – Carcinogenic to humans.  
ACGIH®: A2 – Suspected human carcinogen.  
The NTP has concluded that crystalline silica (respirable) may be reasonably anticipated to be a carcinogen, based on evidence for carcinogenicity in experimental animals and limited evidence in humans.

**Reproductive Toxicity**

**Sexual Function and Fertility:**

Crystalline silica has been shown to cause mutagenic effects in human cells in-vitro.

No information was located for: Development of Offspring, Sexual Function and Fertility, Germ Cell Mutagenicity, Interactive Effects

**Section 12: ECOLOGICAL INFORMATION**

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. Inorganic product which cannot be eliminated from water by biological purification processes.

**Section 13: DISPOSAL CONSIDERATIONS**

**Disposal Methods:**

In accordance with federal, provincial and local guidelines.  
CAUTION: Slippery when wet. DO NOT discharge into drains/surface waters/groundwater. Empty containers contain residual hazardous materials and must be disposed of in accordance with local regulations. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

SAFETY DATA SHEET

**Section 14: TRANSPORT INFORMATION**

Not regulated under Canadian TDG Regulations.

**Special Precautions:** Not applicable

**Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code:** Not applicable

**Section 15: REGULATORY INFORMATION**

**Safety, Health and Environmental Regulations**

**Canada**

WHMIS 1988 Classification



Class D2A

D2A – Very Toxic

**Section 16: OTHER INFORMATION**

**Disclaimer:**

The information contained herein is based on data available to us and is believed to be true and accurate. However, no guarantee or warranty is provided, expressed or implied, by the company or its subsidiaries regarding accuracy of the information, the hazards connected with the use of the material, or the results to be obtained from the use thereof. Since the use of this product is within the exclusive control of the user, we do not assume any responsibility and expressly disclaim any liability for any use of this product. It is the user's responsibility to determine the conditions of safe use, storage, and disposal of the product. Compliance with all applicable federal, provincial, and local regulations remains the responsibility of the user.

**Prepared by:** Bri-Chem Supply Ltd.

**Revision Date:** August 6, 2024