



## SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	SEA MUD/SALT GEL
<b>Other Means of Identification</b>	Sepiolite Clay
<b>Product Family</b>	Viscosifier
<b>Recommended Use</b>	Drilling Fluids Additive.
<b>Supplier Identifier</b>	Prairie Mud Service, 738 6 <sup>th</sup> Street, Estevan, SK S4A 1A4 306-634-3411

**Emergency Phone No.** 306-634-3411

## SECTION 2. HAZARD IDENTIFICATION

### Classification

Carcinogenicity - Category 1B; Specific target organ toxicity (single exposure) - Category 3; Specific target organ toxicity (repeated exposure) - Category 1

### Label Elements



Signal Word:

DANGER!

Hazard Statement(s):

May cause respiratory irritation.

May cause drowsiness or dizziness.

May cause cancer.

Causes damage to organs through prolonged or repeated exposure.

Precautionary Statement(s):

Prevention:

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.

Response:

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF exposed or concerned: Get medical advice or attention.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

Disposal:

Dispose of contents and container in accordance with local, regional, national and international regulations.

### Other Hazards

Product is EXTREMELY slippery when wet!

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Product Identifier: SEA MUD

### 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

##### Inhalation

Move to fresh air.

##### Skin Contact

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.

##### Eye Contact

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.

##### Ingestion

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

If in eyes:

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

##### Special Instructions

Treat according to symptoms (decontamination, vital functions); no known specific antidote.

### SECTION 5. FIRE-FIGHTING MEASURES

#### Extinguishing Media

##### Suitable Extinguishing Media

Use dry powder, foam. Contaminated extinguishing water must be disposed of in accordance with official regulations.

#### Specific Hazards Arising from the Product

Does not burn. The degree of risk is governed by the burning substance and the fire conditions.

#### Special Protective Equipment and Precautions for Fire-fighters

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

#### Personal Precautions, Protective Equipment, and Emergency Procedures

Avoid dust generation. Ensure adequate ventilation. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

#### Environmental Precautions

Contain contaminated water/firefighting water. Do not allow into any sewer, on the ground or into any waterway.

#### Methods and Materials for Containment and Cleaning Up

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

### Precautions for Safe Handling

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.

### Conditions for Safe Storage

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

### Appropriate Engineering Controls

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.

### Individual Protection Measures

#### Eye/Face Protection

Safety glasses with side shields. Do not wear contact lenses.

#### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

#### Respiratory Protection

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
<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 deg C</b>	Not applicable
<b>Saturated Vapour Concentration</b>	Not applicable

## SECTION 10. STABILITY AND REACTIVITY

### Chemical Stability

The product is chemically stable.

### Conditions to Avoid

Generation of dust.

## SECTION 11. TOXICOLOGICAL INFORMATION

### Skin Corrosion/Irritation

(Silica, quartz) human experience shows mild irritation.  
Possible drying resulting in dermatitis.

### Serious Eye Damage/Irritation

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.

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.

## 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

**Phone No.** (306) 634-3411

**Date of Preparation** March 03, 2016

**Disclaimer** This Health and Safety information is correct to the best of our knowledge and belief at the date of its publication, but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Safety Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as guidance for safe handling, storage, and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet.