

SAFETY DATA SHEET

**Section 1: IDENTIFICATION**

**Product Identifier:** Petro-Tone  
**Other Means of Identification:** Organophilic Clay  
**Product Family:** Oil Mud Viscosifier  
**Recommended Use:** Drilling Fluid Additive  
**Manufacturer/Supplier:** Bri-Chem Supply Ltd.  
27075 Acheson Road  
Acheson, AB T7X 6B1  
**Phone Number:** 780-962-9490  
**Emergency Phone:** CHEMTREC 1-800-424-9300, 24/7

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

**Classification:** Serious eye damage - Category 1; Carcinogenicity - Category 1A; Specific target organ toxicity (repeated exposure) - Category 1

**Label Elements:**



**Signal Word:** DANGER!

**Hazard Statement(s):** Causes serious eye damage. 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. Do not breathe dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** If In Eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice or attention if you feel unwell.

**Storage:** Store locked up.

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

**Other Hazards:** Product is slippery when wet! Product may form explosive dust/air mixtures if high concentration of product dust is suspended in air.

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### Section 3: COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Quaternary ammonium compounds, benzylbis(hydrogenated tallow alkyl)methyl, chlorides, compds. with bentonite	68153-30-3	95-99		
Silica, quartz	14808-60-7	0-3		

### Section 4: FIRST-AID MEASURES

#### First-Aid Measures

- Inhalation:** Move to fresh air. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by Poison Centre or doctor. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If symptoms persist, seek medical attention.
- Skin Contact:** Remove and isolate contaminated clothing and footwear. Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. For minor skin contact, avoid spreading the material on unaffected skin. Get medical attention if symptoms occur.
- Eye Contact:** Immediately flush the contaminated eye(s) with lukewarm, gently flowing water while holding the eyelid(s) open for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain immediate medical attention.
- Ingestion:** Rinse mouth. DO NOT INDUCE VOMITING unless directed to do so by medical personnel. Never give anything by mouth to an unconscious or convulsing victim. If vomiting occurs naturally, have victim lean forward to reduce of aspiration. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If ingestion of a large amount does occur, call a Poison Control Centre immediately.

#### Immediate Medical Attention and Special Treatment

**Target Organs:** Eyes, respiratory system.

### Section 5: FIRE-FIGHTING MEASURES

#### Extinguishing Media

**Suitable Extinguishing Media:** Use any media suitable for the surrounding fire. Does not support combustion.

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<b>Unsuitable Extinguishing Media:</b>	DO NOT use water jet.
<b>Special Hazards Arising from the Product:</b>	Not a fire hazard. Dusts may form an explosive mixture with air. Take precautionary measures against static discharge. Slippery when wet.
<b>Special Protective Equipment and Precautions for Fire-fighters:</b>	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>	Local authorities should be advised if significant spillages cannot be contained. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unnecessary personnel away. Stay upwind and out of low areas. Avoid inhalation of dust from the spilled material. Wear a dust mask if dust is generated above exposure limits.
<b>Environmental Precautions:</b>	It is good practice to prevent releases into the environment. 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. Wear protective clothing. Avoid generating dust. If sweeping of a contaminated area is necessary, use a dust suppressant agent which does not react with this product. Contain spill and pick up solids by sweeping/shoveling into containers for disposal. Collect dust and particulates using a vacuum cleaner with a HEPA filter. The product is slippery when wet.

**Section 7: HANDLING AND STORAGE**

<b>Precautions for Safe Handling:</b>	Precaution: This product may contain crystalline silica. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid dust formation. Do not breathe dust. Only use where there is adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid prolonged exposure. Wash thoroughly after handling. Handle and open container with care. Do not breathe dust. Avoid contact with eyes. Keep away from food and drink. Handle in accordance with good industrial hygiene and safety practice.
<b>Conditions for Safe Storage:</b>	Guard against dust accumulation of this material. Store in a cool, dry, well-ventilated place. Keep container closed when not in use. Do not re-use empty container. Keep out of reach of children. Avoid moisture. Use care in handling/storage.

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**Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

(Silica, quartz)

ACGIH® = American Conference of Governmental Industrial Hygienists. TWA = Time-Weighted Average. 0.025 mg/m<sup>3</sup> (respirable fraction)

OSHA = US Occupational Safety and Health Administration. TWA = Time-Weighted Average. 0.1 mg/m<sup>3</sup> (respirable dust) 0.3 mg/m<sup>3</sup> (total dust)

(Nuisance Particulates) Seq250

ACGIH® = American Conference of Governmental Industrial Hygienists. TWA = Time-Weighted Average. 3 mg/m<sup>3</sup> (respirable particles)

Additional components: 10 mg/m<sup>3</sup> (inhalable particles)

OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. 5 mg/m<sup>3</sup> (respirable fraction) 15 mg/m<sup>3</sup> (total dust)

OSHA = US Occupational Safety and Health Administration. TWA = Time-Weighted Average. 15 mppcf (respirable fraction) 50 mppcf (total dust).

**Appropriate Engineering Controls:**

Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. Use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below recommended exposure limits. If material is ground, cut or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits. If engineering measures are not sufficient to maintain concentrations of dust particulates below OEL, suitable respiratory protection must be worn.

**Individual Protection Measures**

**Eye/Face Protection:**

Wear safety glasses with side shields.

**Skin Protection:**

Protective gloves are recommended. Use clothing that provides comprehensive protection to the skin. Wash contaminated clothing with soap and water, dry thoroughly before re-use.

**Respiratory Protection:**

Use a particulate filter respirator for particulate concentrations exceeding Occupational Exposure Limit. If airborne concentrations are above the applicable exposure limits, use NIOSH-approved respiratory protection.

**Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Basic Physical and Chemical Properties**

**Appearance:**

Off-white powder. Particle Size: Not available

**Odour:**

Odourless

**Odour Threshold:**

Not available

**pH:**

Not available

**Melting Point/Freezing Point:**

Not available (melting); Not available (freezing)

**Initial Boiling Point/Range:**

Not applicable

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<b>Flash Point:</b>	Not applicable
<b>Evaporation Rate:</b>	Not applicable
<b>Upper/Lower Flammability or Explosive Limit:</b>	Not available (upper); Not available (lower)
<b>Vapour Pressure:</b>	Not available
<b>Vapour Density (Air=1):</b>	Not available
<b>Relative Density (Water=1):</b>	1.4 – 1.8
<b>Solubility:</b>	Slightly in water, Not available (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 available
<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>	Not available
<b>Surface Tension:</b>	Not applicable
<b>Critical Temperature:</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>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	None known
<b>Hazardous Decomposition Products:</b>	No hazardous decomposition products are known.

### Section 11: TOXICOLOGICAL INFORMATION

<b>Likely Routes of Exposure:</b>	Inhalation; eye contact.
<b>Skin Corrosion/Irritation:</b>	Avoid contact with skin.
<b>Serious Eye Damage/Irritation:</b>	Contact may irritate or burn eyes. Eye contact may result in corneal injury. Avoid any contact with the eyes.

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

**Inhalation:** Inhalation of the dust may cause respiratory tract irritation. May cause cancer. DO NOT breathe dust. Repeated or prolonged inhalation may cause toxic effects.

**Ingestion:** Do not ingest.

**STOT (Specific Target Organ Toxicity) – Repeated Exposure:** Conjunctiva. Dust may contain respirable crystalline silica. Overexposure to dust may result in pneumoconiosis, a respiratory disease caused by inhalation of mineral dust, which can lead to fibrotic changes to the lung tissue, or silicosis, a respiratory disease caused by inhalation of silica dust, which can lead to inflammation and fibrosis of the lung tissue. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. Signs and symptoms: Corneal damage. Conjunctivitis. Prolonged exposure may cause chronic effects. The main effect in humans of the inhalation of crystalline silica dust is silicosis. Therefore, preventing the onset of silicosis will reduce the risk of cancer. Worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable crystalline silica should be monitored and controlled.

**Carcinogenicity:** (Silica, quartz)  
NTP: Known to be a carcinogen.  
ACGIH®: A2 – Suspected human carcinogen.  
IARC: Group 1 – Carcinogenic to humans.  
Hazardous by OSHA criteria. Cancer hazard. Risk of cancer cannot be excluded with prolonged exposure.

No information was located for: Respiratory and/or Skin Sensitization, Development of Offspring, Sexual Function and Fertility, Germ Cell Mutagenicity, Interactive Effects

**Section 12: ECOLOGICAL INFORMATION**

This product has no known eco-toxicological effects.

**Persistence and Degradability:** Not available

**Section 13: DISPOSAL CONSIDERATIONS**

**Disposal Method:** Contact local environmental authorities for approved disposal or recycling methods in your jurisdiction.

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**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

**Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL):**

All the ingredients as such or as chemical group are registered in the Domestic Substance List (DSL).

**Section 16: OTHER INFORMATION**

**NFPA Rating:** Health – 1                      Flammability – 0                      Instability – 0

**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.

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