

## BENTONE® 150

### SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	BENTONE® 150
<b>Other Means of Identification</b>	Organophilic Clay
<b>Product Family</b>	Oil Mud Viscosifier
<b>Recommended Use</b>	Drilling Fluid Additive.
<b>Supplier Identifier</b>	Bri-Chem Supply Ltd., Bay 4, 5510 - 3rd Street SE, Calgary, Alberta, T2H 1J9, Bri-Chem Supply, 403-252-5904, www.brichemsupply.com
<b>Emergency Phone No.</b>	ChemTrec, (800) 424-9300, 24/7

### SECTION 2. HAZARD IDENTIFICATION

**Classification**

Carcinogenicity - Category 1A; Specific target organ toxicity (repeated exposure) - Category 2

**Label Elements**



Signal Word:

Danger

Hazard Statement(s):

May cause cancer.

May cause damage to organs through prolonged or repeated exposure.

Precautionary Statement(s):

Prevention:

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.

Wear protective gloves/protective clothing/eye protection/face protection.

Response:

IF exposed or concerned: Get medical advice or attention.

Storage:

Store locked up.

Disposal:

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

**Other Hazards**

May form combustible dust concentrations in air.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	%	Other Identifiers	Other Names

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Confidential organoclay	Proprietary	50-100		
Silica, quartz	14808-60-7	< 3.0%		
1,6 Hexanediol	629-11-8	2.5-10		

## SECTION 4. FIRST-AID MEASURES

### First-aid Measures

#### Inhalation

IF INHALED: remove to fresh air. Keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. If symptoms persist, seek medical attention.

#### Skin Contact

Wash off immediately with soap and plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.

#### Eye Contact

Immediately flush the contaminated eye(s) with lukewarm, gently flowing water while holding the eyelid(s) open. If eye irritation persists, seek medical attention.

#### Ingestion

If swallowed, seek medical advice immediately. DO NOT INDUCE VOMITING without medical advice. Never give anything by mouth to an unconscious or convulsing victim.

### Immediate Medical Attention and Special Treatment

#### Target Organs

Lungs.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Specific Hazards Arising from the Product

Not self-igniting.

Excess dust dispersed in the air represents an explosion hazard in the presence of electrical sparks and static charges.

Hazardous combustion products: Carbon monoxide, carbon dioxide, nitrogen oxides.

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

Avoid high dust concentrations and ensure all equipment is properly grounded to prevent static discharges. Firefighters should wear a full-body encapsulating chemical protective suit with positive-pressure self-contained breathing apparatus (SCBA).

## SECTION 6. ACCIDENTAL RELEASE MEASURES

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

Evacuate personnel to safe area. Keep people away from and upwind of spill/leak. Use grounded, explosion-proof equipment. Use the personal protective equipment recommended in Section 8 of this safety data sheet.

### Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any waterway. It is good practice to prevent releases into the environment.

### Methods and Materials for Containment and Cleaning Up

Use appropriate safety equipment. Sweep up and shovel into suitable containers for disposal. Stop or reduce leak if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

## SECTION 7. HANDLING AND STORAGE

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## Precautions for Safe Handling

Take precautionary measures against static discharges. Wear personal protective equipment to avoid direct contact with this chemical. Avoid any contact with eyes, skin and clothing. Avoid breathing any dust from this material. Wash hands after handling and before eating.

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.

## Conditions for Safe Storage

Keep containers tightly closed in a cool, well ventilated place. Keep product and empty containers away from heat and sources of ignition.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

(silica, quartz)

ACGIH® = American Conference of Governmental Industrial Hygienists. TLV® = Threshold Limit Value. TWA = Time-Weighted Average. 0.025 mg/m<sup>3</sup> (respirable fraction) 3 mg/m<sup>3</sup> (respirable particles) 10 mg/m<sup>3</sup> (inhalable particles)  
OSHA = US Occupational Safety and Health Administration. PEL = Permissible Exposure Limits. 0.1 mg/m<sup>3</sup> respirable fraction

OSHA = US Occupational Safety and Health Administration. TWA = Time-Weighted Average. 15 mg/m<sup>3</sup> (total dust) 5 mg/m<sup>3</sup> (respirable fraction).

### Appropriate Engineering Controls

Do not allow product to accumulate in the air in work or storage areas, or in confined spaces. Use local exhaust ventilation and enclosure, if necessary, to control amount in the air. Control static electricity discharges which includes bonding of equipment to ground.

### Individual Protection Measures

#### Eye/Face Protection

Wear chemical safety goggles.

#### Skin Protection

Wear chemical protective clothing (gloves, aprons and boots) as necessary to prevent contact. Neoprene gloves are recommended.

#### Respiratory Protection

Wear a NIOSH approved air-purifying respirator with an appropriate cartridge.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

<b>Appearance</b>	Off-white powder.
<b>Odour</b>	Odourless
<b>Flash Point</b>	Not applicable
<b>Relative Density (water = 1)</b>	1.7
<b>Solubility</b>	Insoluble in water
<b>Other Information</b>	
<b>Physical State</b>	Solid

## SECTION 10. STABILITY AND REACTIVITY

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

### Conditions to Avoid

Heat, flames, sparks.

### Incompatible Materials

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Oxidizing Agents.

### **Hazardous Decomposition Products**

No hazardous decomposition or thermal decomposition if stored and handled as prescribed/indicated.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

### **Likely Routes of Exposure**

Inhalation; skin contact; ingestion.

### **Acute Toxicity**

(silica, quartz)

LD50 Oral Rat: 500 mg/kg

1,6 Hexanediol

LD50 Oral Rat: 3,000 mg/kg

Confidential organoclay

LD50 Oral Rat: >8000 mg/kg

1,6 Hexanediol

LD50 Dermal Rat: > 2,500 mg/kg

### **Skin Corrosion/Irritation**

Not expected to cause irritation.

### **Serious Eye Damage/Irritation**

May cause slight eye irritation. Signs and symptoms include burning, tearing, redness and swelling.

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

#### **Inhalation**

Harmful. May cause irritation of the respiratory tract. Repeated and/or prolonged exposures may cause lung damage (silicosis).

#### **Ingestion**

May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

### **STOT (Specific Target Organ Toxicity) - Repeated Exposure**

As with any nuisance dust, long-term exposure to concentrations above recommended guidelines may overload the lung clearance mechanisms and cause adverse lung effects and shortness of breath. Long-term exposure to products containing crystalline silica may cause silicosis.

### **Carcinogenicity**

(crystalline silica (quartz))

NTP: Group A - known to be human carcinogen

IARC: Group 1: carcinogenic to humans

OSHA: Present

Crystalline silica has been reviewed by IARC. IARC working group found sufficient evidence in humans for the carcinogenicity of inhaled crystalline silica in the form of quartz or cristobalite from occupational sources. There is sufficient evidence in experimental animals for the carcinogenicity of quartz and cristobalite. Therefore, IARC working group has classified Crystalline Silica as carcinogenic to humans (Group 1).

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**

It is good practice to prevent releases into the environment.

### **Ecotoxicity**

(hexamethylene glycol)

LC50/96hr/48hr/24hr (freshwater fish): 460-1000 mg/L

EC50/48hr(daphnia magna): 500 mg/L

EC50/72hr (scenedesmus subspicatus): 2200 mg/L

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## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Dispose of in accordance with federal, provincial and local government regulations. Containers should NOT be re-used. Containers should be disposed of in accordance with government guidelines.

## 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; D2B

D2A - Very Toxic; D2B - Toxic

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

#### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

All ingredients are listed on the DSL/NDSL.

## SECTION 16. OTHER INFORMATION

**NFPA Rating**                      **Health - 1**      **Flammability - 1**      **Instability - 0**

**SDS Prepared By**              Bri-Chem Supply Ltd

**Phone No.**                        (403) 252-5904

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**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 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.

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