MATERIAL SAFETY DATA SHEET

Bentonite

Section 01 - Chemical And Product And Company Information

Product Identifier ...................... Wyoming Gel

Product Use ............................ Oil well drilling fluid additive

Supplier Name.......................... ClearTech Industries Inc.
1500 Quebec Avenue
Saskatoon, SK. Canada
S7L 1V7

Prepared By............................ ClearTech Industries Inc. Technical Department
Phone: (306)664-2522

Preparation Date...................... September 18, 2012

24-Hour Emergency Phone.......... 306-664-2522

Section 02 - Composition / Information on Ingredients

Hazardous Ingredients............... Bentonite 94-98%
Quartz, crystalline silica 2-6%

CAS Number............................ Bentonite 1302-78-9
Quartz, crystalline silica 14808-60-7

Synonym (s)............................ Bentonite, bentonite clay, montmorillonite, Wyoming Gel
Section 03 - Hazard Identification

Inhalation........................................... Breathing silica dust may not cause noticeable injury or illness even though permanent lung damage is occurring. Inhalation may cause irritation of the nose, throat, and respiratory passages. 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. Symptoms include cough, shortness of breath, wheezing, non-specific chest illnesses and reduced pulmonary function.

Skin Contact / Absorption.................. Possible drying resulting in dermatitis.

Eye Contact...................................... Dust may cause eye irritation.

Ingestion......................................... No adverse effects expected.

Exposure Limits.............................. ACGIH-TLV: 0.025 mg/m^3 (quartz, crystalline silica)

Section 04 - First Aid Measures

Inhalation........................................... Remove victim to fresh air. Give artificial respiration only if breathing has stopped. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist. Inhalation may aggravate existing respiratory illness.

Skin Contact / Absorption.................. Remove contaminated clothing. Wash affected area with soap and water. Seek medical attention if irritation occurs or persists.

Eye Contact...................................... Flush immediately with water for at least 20 minutes. Forcibly hold eyelids apart to ensure complete irrigation of eye tissue. Seek immediate medical attention.

Ingestion......................................... Material is non-toxic. However, seek medical attention if any symptoms or discomfort appear.

Additional Information...................... None

Section 05 - Fire Fighting

Conditions of Flammability.............. Non-flammable
Means of Extinction: Does not burn. Use appropriate means of extinction for cause of fire with the exception of water as product becomes very slippery in contact with water.

Flash Point: Not applicable

Auto-ignition Temperature: Not applicable

Upper Flammable Limit: Not applicable

Lower Flammable Limit: Not applicable

Hazardous Combustible Products: Not available

Special Fire Fighting Procedures: Wear NIOSH-approved self-contained breathing apparatus and protective clothing.

Explosion Hazards: None

Section 06 - Accidental Release Measures

Leak / Spill: Wear an approved respirator. Vacuum if possible to avoid generating airborne dust. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Avoid adding water as product will become slippery when wet.

Deactivating Materials: None

Section 07 - Handling and Storage

Handling Procedures: Avoid creating dust. Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure. Empty packages contain residual hazardous material; handle as if full.

Storage Requirements: Store in a cool, dry, well-ventilated place. Keep container tightly closed.

Section 08 - Personal Protection and Exposure Controls

Protective Equipment
Eyes……………………………………………Chemical goggles, full-face shield, or a full-face respirator is to be worn at all times when product is handled. Contact lenses should not be worn; they may contribute to severe eye injury.

Respiratory……………………………….Always wear an approved dust mask for levels below the TLV. Use NIOSH/MSHA approved respirators for silica bearing dust if airborne concentrations exceed the TLV.

Gloves………………………………………Impervious gloves of chemically resistant material generally are not required other than what is mandated at place of work. Wash contaminated clothing and dry thoroughly before reuse.

Clothing……………………………………Body suits, aprons, and/or coveralls of chemical resistant material should be worn. Wash contaminated clothing with soap and water, dry thoroughly before reuse.

Footwear……………………………………No special footwear is required other than what is mandated at place of work.

Engineering Controls

Ventilation Requirements………………..Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions should be provided. Supply sufficient replacement air to make up for air removed by exhaust systems.

Other………………………………………Keep an eye wash fountain and safety shower available and in close proximity to work area.

Section 09 - Physical and Chemical Properties

Physical State…………………………..Solid

Odor and Appearance…………………..Light tan to grey odourless powder or granules

OdourThreshold………………………..Not applicable

Specific Gravity (Water=1)..................2.45-2.55

Vapor Pressure (mm Hg, 20C)..............Not applicable

Vapor Density (Air=1)…………………..Not applicable

Evaporation Rate…………………………Not available

Boiling Point……………………………Not applicable

Freeze/Melting Point…………………….1450°C
pH................................................. 8-10 (5% suspension)

Water/Oil Distribution Coefficient.................. Not available

Bulk Density........................................ 881 kg/m$^3$

% Volatiles by Volume............................. Not applicable

Solubility in Water.................................. Insoluble

Molecular Formula................................. Not available

Molecular Weight................................. Not available

**Section 10 - Stability and Reactivity**

Stability............................................... Stable

Incompatibility...................................... No incompatible substances known

Hazardous Products of Decomposition........... None

Polymerization..................................... Will not occur

**Section 11 - Toxicological Information**

Irritancy............................................... Respiratory irritant

Sensitization........................................ Not available

Chronic/Acute Effects............................. See notes under Inhalation in Section 3.

Synergistic Materials............................. Not available

Animal Toxicity Data............................. Not available

Carcinogenicity..................................... Inhaled crystalline silica is classified as carcinogenic to humans by IARC and NTP (Class 1) as well as ACGIH (A2) as a suspected human carcinogen. Bentonite is not listed as a carcinogen by IARC, ACGIH, OSHA and NTP.

Reproductive Toxicity............................ Not available

Teratogenicity....................................... Not available
Mutagenicity

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

Section 12 - Ecological Information

Fish Toxicity Not available
Biodegradability Not available
Environmental Effects Not available

Section 13 - Disposal Consideration

Waste Disposal Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

Section 14 - Transportation Information

TDG Classification
Class Not regulated
Group Not regulated
PIN Number Not regulated
Other Secure containers (full and/or empty) with suitable hold down devices during shipment.

PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 16 of this MSDS / SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and/or published test data regarding the classification of this product are listed in the references at section 16 of this MSDS / SDS.

Section 15 - Regulatory Information

WHMIS Classification D2

NOTE: THE PRODUCT LISTED ON THIS MSDS HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS. THIS MSDS CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

Section 16 - Other Information
Note: The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations.

Attention: Receiver of the chemical goods / MSDS coordinator

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Material Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service or technical service department.

ClearTech Industries Inc. - Locations

Corporate Head Office: 1500 Quebec Avenue, Saskatoon, SK, S7K 1V7
Phone: 306-664-2522
Fax: 306-665-6216
www.ClearTech.ca

<table>
<thead>
<tr>
<th>Location</th>
<th>Address</th>
<th>Postal Code</th>
<th>Phone Number</th>
<th>Fax Number</th>
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<tr>
<td>Richmond, B.C.</td>
<td>12431 Horseshoe Way</td>
<td>V7A 4X6</td>
<td>604-272-4000</td>
<td>604-272-4596</td>
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<tr>
<td>Calgary, AB.</td>
<td>5516E - 40th St. S.E.</td>
<td>T2C 2A1</td>
<td>403-279-1096</td>
<td>403-236-0989</td>
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<tr>
<td>Edmonton, AB.</td>
<td>11750 - 180th Street</td>
<td>T5S 1N7</td>
<td>780-452-6000</td>
<td>780-452-4600</td>
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<td>Saskatoon, SK.</td>
<td>19 Peters Ave, North Corman Park</td>
<td>S7L 5Z3</td>
<td>306-933-0177</td>
<td>306-933-3282</td>
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<td>Regina, SK.</td>
<td>555 Henderson Drive</td>
<td>S4R 5X2</td>
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<td>306-721-8611</td>
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<td>Winnipeg, MB.</td>
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<td>R3J 3T2</td>
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<td>204-987-9770</td>
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<td>Mississauga, ON.</td>
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<td>L4T 1L2</td>
<td>905-612-0566</td>
<td>905-612-0575</td>
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</tbody>
</table>

24 Hour Emergency Number - All Locations - 306-664-2522