

**MATERIAL SAFETY DATA SHEET****Diatomaceous Earth****Section 01 - Chemical And Product And Company Information**

**Product Identifier** ..... Celatom FP-3, FP-4, FP-6, FP-12

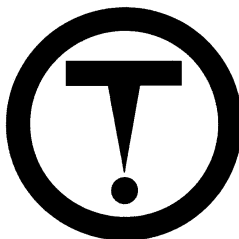
**Product Use** ..... Filter aid

**Supplier Name**..... ClearTech Industries Inc.  
2302 Hanselman Avenue  
Saskatoon, SK. Canada  
S7L 5Z3

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

**Preparation Date**..... July 6, 2010

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

**Section 02 - Composition / Information on Ingredients**

<b>Hazardous Ingredients</b> .....	Diatomaceous Earth, calcined Crystalline Silica (cristobalite)	100% 25-45%
<b>CAS Number</b> .....	Diatomaceous Earth, calcined Crystalline Silica (cristobalite)	91053-39-3 14464-46-1
<b>Synonym (s)</b> .....	Calcined diatomaceous earth, diatomite, DE	

**Section 03 - Hazard Identification**

**Inhalation**..... Upper respiratory irritant. May cause coughing or throat irritation.  
Breathing dust containing crystalline silica over a long period may cause lung damage.



**Skin Contact / Absorption**..... May cause slight irritation.

**Eye Contact**..... May cause slight irritation.

**Ingestion**..... May cause slight irritation. Not hazardous when digested.

**Exposure Limits**..... ACGIH/TLV: 0.025 mg/m<sup>3</sup> (cristobalite)  
ACGIH/TLV: 0.025 mg/m<sup>3</sup> (quartz)

**Section 04 - First Aid Measures**

**Inhalation**..... Remove victim to fresh air. Seek medical attention if symptoms persist.

**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 medical attention.

**Ingestion**..... No known health effects with short-term exposure. Drink water to reduce bulk and drying effects. Seek medical attention if symptoms appear.

**Additional Information**..... Not available

**Section 05 - Fire Fighting**

**Conditions of Flammability**..... Non-flammable

**Means of Extinction**..... Product does not burn. Use appropriate extinguishing media for material that is supplying the fuel to the fire.

**Flash Point**..... Not applicable

**Auto-ignition Temperature**..... Not applicable

**Upper Flammable Limit** ..... Not applicable



**Lower Flammable Limit**..... Not applicable

**Hazardous Combustible Products**... Not applicable

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

**Explosion Hazards**..... Not applicable

**Section 06 - Accidental Release Measures**

**Leak / Spill**..... Diatomaceous earth is a non-toxic, non-biodegradable mineral. Waste generated from this product would only be considered hazardous when mixed with a substance that would be considered hazardous. Flush area with water to remove any residue.

**Deactivating Materials**..... None

**Section 07 - Handling and Storage**

**Handling Procedures**..... 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.

**Storage Requirements**..... Store in a cool, dry, well-ventilated place. Keep container tightly closed, and away from incompatible materials.

**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**..... NIOSH approved respirators (standard 42CFR84, series N95) are recommended when dust is present.

**Gloves**..... Impervious gloves of chemically resistant material can be worn, although normally not necessary to do so. 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 and 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**..... Emergency shower and eyewash should be in close proximity.

**Section 09 - Physical and Chemical Properties**

**Physical State**..... Solid

**Odor and Appearance**..... Fine odourless white, buff, or pink powder

**Odor Threshold**..... Not available

**Specific Gravity (Water=1)**..... 2.00

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

**Vapor Density (Air=1)**..... Not available

**Evaporation Rate**..... Not available

**Boiling Point**..... Not applicable

**Freeze/Melting Point**..... > 1300°C

**pH**..... 7 (10% slurry)

**Water/Oil Distribution Coefficient**.... Not applicable

**Bulk Density**..... Varies with grade

**% Volatiles by Volume**..... Not available

**Solubility in Water**..... < 1%

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

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

## Section 10 - Stability and Reactivity

- Stability**..... Stable under normal conditions.
- Incompatibility**..... Incompatible with hydrofluoric acid.
- Hazardous Products of Decomposition**.. Not available
- Polymerization**..... Will not occur

## Section 11 - Toxicological Information

- Irritancy**..... Irritant to eyes.
- Sensitization**..... Not available
- Chronic/Acute Effects**..... Calcined diatomaceous earth (Kieselguhr) is composed of amorphous and crystalline silica. Amorphous silica is not classifiable as carcinogenic to humans. Crystalline silica inhaled as respirable dust, has been classified as carcinogenic to humans over prolonged and sustained exposure. Long-term inhalation of respirable crystalline silica may contribute to the respiratory disease silicosis (non-cancerous lung disease). In a 1997 monograph (Volume 68, "Silica"), the International Agency for Research on Cancer (IARC) concluded that overall the epidemiological findings support increased risk of lung cancer from inhaled crystalline silica resulting from occupational exposure (Group 1), while there was inadequate evidence in humans for the carcinogenicity of amorphous silica (Group 3).
- Synergistic Materials**..... Not available
- Animal Toxicity Data**..... Not available
- Carcinogenicity**..... IARC: crystalline silica classified in Group 1 as a carcinogen resulting from inhalation.
- Reproductive Toxicity**..... Not available
- Teratogenicity**..... Not available
- Mutagenicity**..... Not available

## Section 12 - Ecological Information

- Fish Toxicity**..... Not available



**Biodegradability**..... Not available

**Environmental Effects**..... Insoluble mineral product, will not have an adverse affect on waterways.

**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 devises during shipment.

**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: 2302 Hanselman Avenue, Saskatoon, SK, S7L 5Z3**  
**Phone: 306-664-2522**  
**Fax: 306-665-6216**

**[www.ClearTech.ca](http://www.ClearTech.ca)**

<b>Location</b>	<b>Address</b>	<b>Postal Code</b>	<b>Phone Number</b>	<b>Fax Number</b>
Richmond, B.C.	12431 Horseshoe Way	V7A 4X6	604-272-4000	604-272-4596
Calgary, AB.	5516E - 40 <sup>th</sup> St. S.E.	T2C 2A1	403-279-1096	403-236-0989
Edmonton, AB.	11750 - 180 <sup>th</sup> Street	T5S 1N7	780-452-6000	780-452-4600
Saskatoon, SK.	2302 Hanselman Avenue	S7L 5Z3	306-933-0177	306-933-3282
Regina, SK.	555 Henderson Drive	S42 5X2	306-721-7737	306-721-8611
Winnipeg, MB.	340 Saulteaux Crescent	R3J 3T2	204-987-9777	204-987-9770
Mississauga, ON.	7480 Bath Road	L4T 1L2	905-612-0566	905-612-0575

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