Section 01 - Chemical And Product And Company Information

Product Identifier ................................ Celatom FW-12, FW-14, FW-18, FW-20, FW-40, FW-50, FW-60, FW-70, FW-80, SP

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.......................March, 30, 2014

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

Section 02 - Composition / Information on Ingredients

Hazardous Ingredients.................. Diatomaceous Earth, flux-calcined 100%
                                    Crystalline Silica, cristobalite 35-50%

CAS Number.............................. Diatomaceous Earth, flux-calcined 68855-54-9
                                    Crystalline Silica, cristobalite 14464-46-1

Synonym (s).............................. Aqua-cel, flux calcined diatomaceous earth

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$^3$ (cristobalite)
                                 ACGIH/TLV: 0.025 mg/m$^3$ (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

Odourless pink to white powder

Odor Threshold

Not applicable

Specific Gravity (Water=1)

2.30

Vapor Pressure (mm Hg, 20°C)

Not applicable

Vapor Density (Air=1)

Not available

Evaporation Rate

Not available

Boiling Point

Not applicable

Freeze/Melting Point

> 1300°C

pH

10 (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: May cause dryness to mucous membranes.

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

<table>
<thead>
<tr>
<th>Location</th>
<th>Address</th>
<th>Postal Code</th>
<th>Phone Number</th>
<th>Fax Number</th>
</tr>
</thead>
<tbody>
<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>
</tr>
<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>
</tr>
<tr>
<td>Edmonton, AB.</td>
<td>11750 - 180th Street</td>
<td>T5S 1N7</td>
<td>780-452-6000</td>
<td>780-452-4600</td>
</tr>
<tr>
<td>Saskatoon, SK.</td>
<td>2302 Hanselman Avenue</td>
<td>S7L 5Z3</td>
<td>306-933-0177</td>
<td>306-933-3282</td>
</tr>
<tr>
<td>Regina, SK.</td>
<td>555 Henderson Drive</td>
<td>S42 5X2</td>
<td>306-721-7737</td>
<td>306-721-8611</td>
</tr>
<tr>
<td>Winnipeg, MB.</td>
<td>340 Saulteaux Crescent</td>
<td>R3J 3T2</td>
<td>204-987-9777</td>
<td>204-987-9770</td>
</tr>
<tr>
<td>Mississauga, ON.</td>
<td>7480 Bath Road</td>
<td>L4T 1L2</td>
<td>905-612-0566</td>
<td>905-612-0575</td>
</tr>
</tbody>
</table>

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