



# Safety Data Sheet

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## Section 01 - Product And Company Identification

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<b>Product Identifier</b>	Celatom FW-12, FW-14, FW-18, FW-20, FW-40, FW-50, FW-60, FW-70, FW-80, SP
<b>Other Means of Identification</b>	Aqua-cel, flux calcined diatomaceous earth
<b>Product Use and Restrictions on Use</b>	Filter aid and fillers.
<b>Initial Supplier Identifier</b>	ClearTech Industries Inc. 1500 Quebec Avenue Saskatoon, SK. Canada S7K 1V7
<b>Prepared By</b>	ClearTech Industries Inc. Technical Writer Phone: 1 (800) 387-7503
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## Section 02 - Hazard Identification

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### GHS-Classification

<b>STOT-Repeated Exposure</b>	Category 1
<b>Carcinogenicity</b>	Category 1A

### Physical Hazards

No known physical hazards.

### **Danger**

#### **Hazards Statements**

H372 – Causes damage to lungs through prolonged or repeated exposure via inhalation.  
H350 – May cause cancer.

### **Pictograms**



### **Precautionary Statements**

P201 – Obtain special instructions before use.  
P202 – Do not handle until all safety precautions have been read and understood.  
P280 – Wear protective gloves, protective clothing, eye protection, and face protection.  
P308 + P313 – IF exposed or concerned: Get medical advice/attention.  
P260 – Do not breathe dust.  
P264 – Wash hands thoroughly after handling.  
P270 – Do not eat, drink or smoke when using this product.

P405 – Store locked up.

P501 – Dispose of contents/container in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act

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## Section 03 - Composition / Information on Ingredients

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Chemical Name	CAS Number	Weight %	Unique Identifiers
Diatomaceous Earth, Flux Calcined	68855-54-9	100%	
Crystalline Silica	14464-46-1	35-50%	

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## Section 04 - First Aid Measures

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<b>Inhalation</b>	If high airborne concentrations are present, take proper precautions to ensure your own safety. If symptoms are experienced, Remove victim to fresh air. Blow nose to evacuate dust. Seek medical attention if symptoms persist.
<b>Skin Contact / Absorption</b>	No health effects expected. If irritation does occur, flush with lukewarm, gently flowing water for 5 minutes or until the chemical is removed.
<b>Eye Contact</b>	Do not allow victim to rub eye(s). Let the eye(s) water naturally for a few minutes. Have victim move their eyes around to attempt to dislodge particle/dust. If not dislodged, flush with lukewarm, gently flowing water for 30 minutes, while holding the eyelid(s) open. If irritation persists, seek medical attention. DO NOT attempt to manually remove anything stuck to the eye(s).
<b>Ingestion</b>	No known health effects with short-term exposure. Drink water to reduce bulk and drying effects. Seek medical attention if symptoms appear.
<b>Additional Information</b>	NOTE: This product contains an ingredient that may cause cancer. Take proper precautions to ensure your own safety before assisting others.

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## Section 05 - Fire Fighting Measures

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<b>Suitable Extinguishing Media</b>	Product does not burn. Use appropriate extinguishing media for material that is supplying the fuel to the fire.
<b>Unsuitable Extinguishing Media</b>	Not Available
<b>Specific Hazards Arising From the Chemical</b>	Not Applicable
<b>Special Protective Equipment and Precautions for Fire-Fighters</b>	Wear NIOSH-approved self-contained breathing apparatus and protective clothing.
<b>Further Information</b>	Not Available

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## Section 06 - Accidental Release Measures

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<b>Personal Precautions / Protective Equipment / Emergency Procedures</b>	Wear appropriate personal protective equipment. Ventilate area. Only enter area with PPE. Stop or reduce leak if safe to do so. Flush with water to remove any residue.
<b>Environmental Precautions</b>	This material is not a significant environmental concern.
<b>Methods and Materials for Containment and Cleaning Up</b>	Do not dry sweep. Whenever possible, wet down with a water spray to minimize the amount of dust or use a vacuum equipped with HEPA filters.

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## Section 07 - Handling and Storage

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<b>Precautions for Safe Handling</b>	This material is a VERY TOXIC solid (CANCER HAZARDS and LONG-TERM INHALTION HAZARD). Before handling, it is important that engineering controls are operating. 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.
<b>Conditions for Safe Storage</b>	Keep quantity stored as small as possible. Store in suitable, labelled containers. Store away from incompatible materials.
<b>Incompatibilities</b>	Stong oxidizing agents, hydrofluoric acid, strong alkalis, magnesium, manganese trifluoride, xenon hexafluoride.

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## Section 08 - Exposure Controls and Personal Protection

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### Exposure Limit(s)

Component	Regulation	Type of Listing	Value
Cristobalite	ACGIH	TLV	0.025mg/m <sup>3</sup>
	OSHA	PEL-TWA	0.05mg/m <sup>3</sup>
Quartz	ACGIH	TLV	0.025mg/m <sup>3</sup>

### Engineering Control(s)

<b>Ventilation Requirements</b>	Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and control of process conditions must be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.
<b>Other</b>	Emergency shower and eyewash must be available and tested in accordance with regulations and be in close proximity.

### Protective Equipment

<b>Eyes/Face</b>	Safety chemical goggles suitable for dust protection. Contact lenses should not be worn; they may contribute to severe eye injury.
<b>Hand Protection</b>	No specific requirement, but it is good practice to prevent skin contact.
<b>Skin and Body Protection</b>	No specific requirement, but it is good practice to prevent skin contact. To reduce exposure, work clothing should be left at the workplace.  No special footwear is required other than what is mandated at place of work.
<b>Respiratory Protection</b>	NIOSH approved respirators (standard 42CFR84, series N95) are recommended when dust is present.
<b>Thermal Hazards</b>	Not Available

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## Section 09 - Physical and Chemical Properties

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### Appearance

<b>Physical State</b>	Solid, powder
<b>Colour</b>	White, buff, or pink
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	Not Available

**Property**

<b>pH</b>	6-8
<b>Melting Point/Freezing Point</b>	>1300°C
<b>Initial Boiling Point and Boiling Range</b>	>1300°C
<b>Flash Point</b>	Not Applicable
<b>Evaporation Rate</b>	Not Applicable
<b>Flammability</b>	Non-flammable
<b>Upper Flammable Limit</b>	Not Applicable
<b>Lower Flammable Limit</b>	Not Applicable
<b>Vapour Pressure (mm Hg, 20°C)</b>	~0
<b>Vapour Density (Air=1)</b>	Not Applicable
<b>Relative Density</b>	Not Available
<b>Solubility(ies)</b>	Insoluble in water. Soluble in hydrofluoric acid. Insoluble in organic solvent and most acids and bases.
<b>Partition Coefficient: n-octanol/water</b>	Not Applicable
<b>Auto-ignition Temperature</b>	Not Applicable
<b>Decomposition Temperature</b>	>1300°C
<b>Viscosity</b>	Not Applicable
<b>Explosive Properties</b>	Not Applicable
<b>Specific Gravity (Water=1)</b>	2.25
<b>% Volatiles by Volume</b>	Not Available
<b>Formula</b>	SiO <sub>2</sub>
<b>Molecular Weight</b>	60.08

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**Section 10 - Stability and Reactivity**

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<b>Reactivity</b>	Silica combines chemically with most metallic oxides at elevated temperatures to form "glass".
<b>Stability</b>	Normally stable.
<b>Possibility of Hazardous Reactions</b>	Polymerization will not occur.
<b>Conditions to Avoid</b>	Generation of dust.

**Incompatible Materials** Stong oxidizing agents, hydrofluoric acid, strong alkalis, magnesium, manganese trifluoride, xenon hexafluoride.

**Hazardous Decomposition Products** None

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## Section 11 - Toxicological Information

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### Acute Toxicity

Component	Oral LD <sub>50</sub>	Dermal LD <sub>50</sub>	Inhalation LC <sub>50</sub>
Diatomaceous Earth	Not Available	Not Available	Not Available

### Chronic Toxicity – Carcinogenicity

Component	IARC
Crystalline Silica	Group 1: Carcinogenic to humans.

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).

<b>Skin Corrosion/Irritation</b>	Not expected to be irritating to skin.
<b>Ingestion</b>	May cause slight irritation. Not hazardous when digested.
<b>Inhalation</b>	Upper respiratory irritant. May cause coughing or throat irritation. Breathing dust containing crystalline silica over a long period may cause lung damage.
<b>Serious Eye Damage/Irritation</b>	The dust is probably irritating as a "foreign substance".
<b>Respiratory or Skin Sensitization</b>	Not reported as a human respiratory sensitizer.
<b>Germ Cell Mutagenicity</b>	Not Available
<b>Reproductive Toxicity</b>	Not Available
<b>STOT-Single Exposure</b>	Upper respiratory irritant. May cause coughing or throat and nose irritation.
<b>STOT-Repeated Exposure</b>	Several human population studies suggest that inhalation exposure to airborne crystalline silica may be associated with the development of kidney diseases. However, there is not enough evidence to conclude a causal link. Case reports and human population studies also suggest a possibly link with the development of autoimmune disorders.
<b>Aspiration Hazard</b>	Breathing dust containing crystalline silica over a long period may cause congestion and lung damage.
<b>Synergistic Materials</b>	There is a disagreement about whether tobacco smoke increases the severity of the effect of crystalline silica dust on respiratory impairment.

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## Section 12 – Ecological Information

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### Ecotoxicity

Component	Toxicity to Algae	Toxicity to Fish	Toxicity to Daphnia and Other Aquatic Invertebrates
Diatomaceous Earth	Not Available	Not Available	Not Available

**Biodegradability** Non-biodegradable.

**Bioaccumulation** Inert, with little potential for bioaccumulation.

**Mobility** Not Available

**Other Adverse Effects** Insoluble mineral products. Will not have an adverse effect on waterways.

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## **Section 13 – Disposal Considerations**

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**Waste From Residues/Unused Products** Dispose in accordance with all federal, provincial, and/or local regulations including the Canadian Environmental Protection Act.

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

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## **Section 14 – Transport Information**

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**UN Number** Not Regulated

**UN Proper Shipping Name** Not Regulated

**Transport Hazard Class(es)** Not Regulated

**Packaging Group** Not Regulated

**Environmental Hazards** Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.

**Special Precautions** Not Available

**Transport in Bulk** Not Available

### **TDG**

**Other** Secure containers (full and/or empty) with suitable hold down devices during shipment and ensure all caps, valves, or closures are secured in the closed position.

**TDG PRODUCT CLASSIFICATION:** This product has been classified on the preparation date specified at section 14 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.

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## **Section 15 – Regulatory Information**

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

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## **Section 16 – Other Information**

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**Preparation Date** November 23, 2015

**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 / SDS coordinator**

As part of our commitment to the Canadian Association of Chemical Distributors (CACD) Responsible Distribution<sup>®</sup> initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached 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 center.

**References:**

- 1) CHEMINFO
- 2) eChemPortal
- 3) TOXNET
- 4) Transportation of Dangerous Goods Canada
- 5) HSDB
- 6) ECHA

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