

EaglePicher™ Filtration & Minerals, Inc.

MATERIAL SAFETY DATA SHEET

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1 - MATERIAL IDENTIFICATION

Material Name: Celatom FW-12, FW-14, FW-18, FW-20, FW-40, FW-50, FW-60, FW-80, FW-80S, SP

Supplier / Manufacturer Identification: EaglePicher Filtration & Minerals, Inc.
9785 Gateway Drive, Suite 1000
Reno, Nevada 89521
Phone Number: (775) 824-7600

Emergency Telephone Number: (775) 824-7600

2 - COMPOSITION / INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>Wt %</u>	<u>CAS #</u>
Diatomaceous earth, Flux calcined	100%	68855-54-9
Crystalline silica, Cristobalite	35 – 50%	14464-46-1

3 - HAZARDS IDENTIFICATION

Breathing dust containing crystalline silica over a prolonged period of time may cause lung damage. Crystalline silica (quartz, cristobalite) is a known cause of silicosis, a progressive, sometimes fatal lung disease. Avoid breathing dust (see Section 11 for additional information).

4 - FIRST AID MEASURES

4.1 Inhalation: Remove to fresh air.

4.2 Ingestion: Short-term exposure not considered harmful. Drink water to reduce bulk and drying effects.

4.3 Eyes: Wash with generous quantities of water. Consult physician if irritation persists.

4.4 Skin: None necessary. If dryness occurs, use moisture renewing lotions.

5 - FIRE FIGHTING MEASURES

5.1 Flashpoint and Method:	Not applicable	Non-Flammable
5.2 Flammable Limits:	Not applicable	Non-Flammable
5.3 Autoignition Temperature:	Not applicable	Non-Flammable
5.4 Flammable Class:	Not applicable	Non-Flammable
5.5 Flame Propagation or burning rate of solids:	Not applicable	Non-Flammable
5.6 General Hazard:	Not applicable	Non-Flammable
5.7 Extinguishing Media:	None	Non-Flammable
5.8 Hazardous Combustion Products:	Not applicable	Non-Flammable
5.9 Fire Fighting Procedures:	Not applicable	Non-Flammable
5.10 Fire Fighting Equipment:	Not applicable	Non-Flammable
5.11 Sensitive to Static Discharge:	Not applicable	Non-Flammable
5.12 Sensitivity to Impact:	Not applicable	Non-Flammable

6 - ACCIDENTIAL RELEASE MEASURES

- 6.1 Environmental Precautions:** 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.
- 6.2 General Procedures:** No special procedures necessary
- 6.3 Release Notes:** No special procedures necessary

7 - HANDLING & STORAGE

- 7.1 Handling:** Use appropriate personal protective equipment as specified in Section 8. Handle and use in a manner consistent with good industrial practice.
- 7.2 Storage:** Store unopened containers in a dry place.

8 - EXPOSURE CONTROLS/ PERSONAL PROTECTION

- 8.1 Engineering Controls:** Control dust to within the ACGIH-TLV with local ventilation.
- 8.2 Occupational exposure limits:**
- | ACGIH - TLV | EXPOSURE LIMITS TABLE | |
|-------------|--------------------------|--------------------------------|
| | Quartz mg/m ³ | Cristobalite mg/m ³ |
| | 0.10 | 0.05 |
- 8.3 Personal Protective Equipment:**
- Respiratory: Respirators fitted with filters certified to NIOSH (US) standard 42CFR84 under series N95 should be worn when airborne dust is present.
- Skin: Not normally necessary
- Eyes & Face: Not normally necessary

9 - PHYSICAL AND CHEMICAL PROPERTIES

- 9.1 Physical State:** Solid
- 9.2 Odor:** Odorless
- 9.3 Appearance:** Light pink to white powder
- 9.4 pH (10% slurry):** 10
- 9.5 Color:** Light pink to white
- 9.6 Boiling point:** Not applicable
- 9.7 Melting point:** Not applicable
- 9.8 Oxidizing properties:** Not applicable
- 9.9 Vapor pressure:** Not applicable
- 9.10 Density:** 2.3
- 9.11 Solubility in water:** < 2%
- 9.12 Coefficient oil/water:** Not applicable
- 9.13 Other data:** None

10 - STABILITY and REACTIVITY

10.1 Conditions to avoid:	Hydrofluoric acid
10.2 Stability:	Stable
10.3 Hazardous decomposition products:	Not applicable
10.4 Other considerations:	None

11 - TOXICOLOGICAL INFORMATION

11.1 Dermal LD₅₀:	Not available
11.2 Oral LD₅₀:	Not available
11.3 Inhalation LC₅₀:	Not available
11.4 Eye effects:	May cause significant irritation to the eye
11.5 Skin effects:	May cause dryness
11.6 Sensitization:	Not available

11.7 Chronic: This product contains crystalline silica, which is a known cause of silicosis, a progressive, sometimes fatal lung disease. In a 1997 monograph (Volume 68, "Silica, Some Silicates, Coal Dust and Para-aramid Fibrils"), the International Agency for Research on cancer (IARC) has classified "inhaled crystalline silica from occupational sources" in Group 1 as a substance "carcinogenic to humans". In making the overall evaluation, the IARC Working Group noted that carcinogenicity in humans was not detected in all industrial circumstances studied.

A 1992 study by University of Washington researchers of certain diatomite workers reported an excess risk of non-malignant respiratory disease (NMRD), Standardized Mortality Ratio (SMR) of 2.59 and an excess risk of lung cancer SMR=1.43. A 1996 follow up reported reduced risk with a SMR=2.01 for NMRD and a SMR=1.29 for lung cancer.

As noted in the 1992 study and supported in the follow up, relatively intense exposures to crystalline silica that occurred before the 1950's were probably the most important contributors to the excesses in NMRD and lung cancer.

A more detailed report discussing the IARC classification and the diatomite worker studies are available on request.

12 - ECOLOGICAL INFORMATION

12.1 Environmental Data:	Insoluble mineral product. Will not have adverse impact on waterways.
12.2 Ecotoxicological information:	Not applicable
12.3 Chemical fate information:	Not applicable

13 DISPOSAL CONSIDERATIONS

13.1 Disposal method:	Use solid waste disposal common to landfill operations. Not considered hazardous waste.
13.2 Product disposal:	Avoid creating dust.
13.3 Empty container:	Avoid creating dust.
13.4 General comments:	None

14 - TRANSPORT INFORMATION

14.1 DOT (Department of Transportation):

- | | |
|-------------------------|--|
| A. Proper shipping name | Not restricted by DOT |
| B. Technical name | Diatomaceous earth |
| C. Label | Use product identifier (trade name) with Technical name below. |

14.2 Canada Transport of Dangerous Goods:

- | | |
|-------------------------|--|
| A. Proper shipping name | Not restricted |
| B. Technical name | Diatomaceous earth |
| C. Label | Use product identifier (trade name) with Technical name below. |

15 – REGULATORY INFORMATION

15.1 WHMIS Hazard Symbol & Classification



- Class D, Division 2, Subdivision A
- Chronic toxic effect by inhalation
- WHMIS toxic and WHMIS controlled

15.2 Canada – Ingredient Disclosure List

This product does not have any ingredient(s) on the Ingredient Disclosure List.

15.3 Canada – Environmental Protection Act - Product listed on Domestic Substance List.

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

16 – OTHER INFORMATION

NFPA CODES: Fire: 0 Health: 1 Reactivity: 0

HMIS CODES: Fire: 0 Health: * Reactivity: 0 Protection: E

* Refer to data on Material Safety Data Sheet

Preparation Date of MSDS

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