SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER Celatom® FW-6, FW-12, FW-18, FW-20, FW-40, FW-50, FW-60, FW-70, FW-80, SP
CHEMICAL NAME Diatomaceous Earth, Flux-Calcined
CHEMICAL FAMILY Silica
MATERIAL USE Filter Aid
RESTRICTION ON USE None Known
MANUFACTURER EP Minerals, LLC., 9875 Gateway Dr., Reno, NV 89521
TELEPHONE NO. (775) 824 7600 (Monday – Friday 8:00 am PST – 5:00 pm PST)
EMERGENCY TELEPHONE NO. (775) 824 7600 (Monday – Friday 8:00 am PST – 5:00 pm PST)
SDS DATE OF PREPARATION January 31, 2014

SECTION 2: HAZARDS IDENTIFICATION

OSHA GHS HAZARD CLASSIFICATION
Carcinogen Category 1A
Specific Target Organ Toxicity, Repeated Exposure Category 1
HAZARDS NOT OTHERWISE CLASSIFIED None

LABEL ELEMENTS

DANGER
May cause cancer by inhalation.
Causes damage to lungs through prolonged or repeated exposure.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not breathe dust.
Wear eye protection.
If exposed or concerned: Get medical advice.
Dispose of contents in accordance with local, state and federal regulations.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>INGREDIENT IDENTIFICATION</th>
<th>APPROXIMATE CONCENTRATION (%)</th>
<th>C.A.S. NUMBERS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diatomaceous Earth, Flux-Calcined (kieselguhr) (contains 35-50% Crystalline Silica - Cristobalite)</td>
<td>100%</td>
<td>68855-54-9, 14464-46-1</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

EYE Flush eyes with generous quantities of water or eye rinse solution. Consult physician if irritation persists.
SKIN Use moisture renewing lotions if dryness occurs.
INGESTION Drink generous amounts of water to reduce bulk and drying effects.
INHALATION Remove to fresh air. Blow nose to evacuate dust.
Most important symptoms/effects, acute and delayed Dust may cause abrasive irritation to eyes. Prolonged skin contact may cause dryness. Dust may cause nose, throat and upper respiratory tract irritation. Prolonged inhalation of respirable dust containing silica may cause a progressive lung disease, silicosis and lung cancer. See Section 11 for additional information.
Indication of immediate medical attention and special treatment, if necessary Immediate medical attention is not normally required. If dust irritates the eyes, seek medical attention.
SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA 
Not applicable, the material is not combustible.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL 
Not applicable, the material is not combustible.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS 
Not applicable, the material is not combustible.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS 
If dust is present, use respirator fitted with particulate filter as specified in Section 8. Protect eyes with goggles. Do not breathe dust.

ENVIRONMENTAL PRECAUTIONS 
This material is not a significant environmental concern.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP 
Vacuum clean spillage or wet sweep. Avoid creating airborne dust. Place in a container for use or disposal.

SECTION 7: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING 
Minimize dust generation. Avoid contact with eyes. Do not breathe dust. Repair or dispose of broken bags. Observe all label precautions and warnings.

CONDITIONS FOR SAFE STORAGE 
Store in a dry place to maintain packaging integrity and product quality. Do not store near hydrofluoric acid or concentrated caustic solutions.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

<table>
<thead>
<tr>
<th>Component</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>MSHA PEL</th>
<th>NIOSH REL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diatomaceous Earth, Flux-Calcined (kieselguhr)</td>
<td>5 mg/m³ respirable dust 15 mg/m³ total dust</td>
<td>None Established</td>
<td>5 mg/m³ respirable dust 15 mg/m³ total dust</td>
<td>None Established</td>
</tr>
<tr>
<td>Crystalline Silica (Cristobalite)</td>
<td>1 x 30 mg/m³ 2 % SiO₂+2 total dust 1 x 10 mg/m³ 2 % SiO₂+2 respirable dust</td>
<td>0.025 mg/ m³ respirable dust</td>
<td>1 x 30 mg/m³ 2 % SiO₂+2 total dust 1 x 10 mg/m³ 2 % SiO₂+2 respirable dust</td>
<td>0.05 mg/ m³ Respirable dust</td>
</tr>
</tbody>
</table>

ENGINEERING CONTROLS 
Use general or local exhaust ventilation to control dust within recommended exposure limits. Refer to ACGIH publication "Industrial Ventilation" or similar publications for design of ventilation systems.

PERSONAL PROTECTIVE EQUIPMENT:

EYE / FACE PROTECTION 
Goggles to protect from dust

SKIN PROTECTION 
No special equipment is needed.

RESPIRATORY PROTECTION 
Respirators fitted with filters certified to standard 42CFR84 under series N95 should be worn when dust is present. If the dust concentration is less than ten (10) times the Permissible Exposure Limit (PEL) use a quarter or half-mask respirator with a N95 dust filter or a single use dust mask rated N95. If dust concentration is greater than ten (10) times and less than fifty (50) times the PEL, a full-face piece respirator fitted with replaceable N95 filters is recommended. If dust concentration is greater than fifty (50) and less than two hundred (200) times the PEL use a power air-purifying (positive pressure) respirator with a replaceable N95 filter. If dust concentration is greater than two hundred (200) times the PEL use a type C, supplied air respirator (continuous flow, positive pressure), with full face piece, hood or helmet.

GENERAL HYGIENE 
Avoid breathing dust. Avoid contact with eyes. Wash hands after handling and before eating or drinking.
### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>APPEARANCE, COLOR</strong></td>
<td>Light pink to white powder</td>
</tr>
<tr>
<td><strong>PHYSICAL STATE</strong></td>
<td>Solid</td>
</tr>
<tr>
<td><strong>VAPOR PRESSURE</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>BOILING POINT</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>FLASH POINT</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>FLAMMABILITY LIMITS</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>DECOMPOSITION TEMPERATURE</strong></td>
<td>&gt; 1300°C</td>
</tr>
<tr>
<td><strong>AUTOIGNITION TEMPERATURE</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>FLAMMABILITY (solid/gas)</strong></td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

### SECTION 10: STABILITY AND REACTIVITY

**REACTIVITY**

Material is not reactive.

**CHEMICAL STABILITY**

Material is stable.

**POSSIBILITY OF HAZARDOUS REACTIONS**

Material is not reactive under normal conditions of handling unless mixed with incompatible substances below.

**CONDITIONS TO AVOID**

Not applicable

**INCOMPATIBLE MATERIALS**

Hydrofluoric acid and concentrated caustic solutions may react violently with the product.

**HAZARDOUS DECOMPOSITION PRODUCTS**

Not applicable

### SECTION 11: TOXICOLOGICAL INFORMATION

**POTENTIAL HEALTH EFFECTS**

<table>
<thead>
<tr>
<th>Likely Routes of Exposure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EYE</strong></td>
<td>May cause irritation (tear formation and redness) if dust gets in eyes.</td>
</tr>
<tr>
<td><strong>SKIN</strong></td>
<td>Not absorbed by the skin, but may cause dryness if prolonged exposure.</td>
</tr>
<tr>
<td><strong>INGESTION</strong></td>
<td>Ingestion of small quantities is not considered harmful, but may cause irritation of the mouth, throat and stomach.</td>
</tr>
<tr>
<td><strong>INHALATION</strong></td>
<td>Acute inhalation can cause dryness of the nasal passage and lung congestion, coughing and general throat irritation. Acute inhalation of high concentrations of respirable crystalline silica may cause acute silicosis.</td>
</tr>
</tbody>
</table>

**CHRONIC EFFECTS**

This product contains crystalline silica. Respirable crystalline silica may cause lung cancer and lung disease (silicosis) if inhaled for prolonged periods. Symptoms of silicosis include wheezing, cough and shortness of breath.

**CARCINOGENICITY**

Flux-calcined diatomaceous earth (Kieselguhr) is composed of amorphous and crystalline silica. Respirable crystalline silica (crystobalite) is classified by IARC and NTP as a known human carcinogen. Crystalline silica is only known to cause cancer when inhaled in a respirable form. It is not known to cause cancer by any other route of exposure.

**NTP**

Respirable crystalline silica (crystobalite) is classified as a known human carcinogen.

**IARC**

Respirable crystalline silica (crystobalite) is classified as a known human carcinogen.

**NUMERICAL MEASURES OF TOXICITY**

No data available

**CORROSIVENESS, SENSITIZATION, IRRITANCY**

Not applicable
MATERIAL NAME
Celatom® FW-6, FW-12, FW-14, FW-18, FW-20, FW-40, FW-50, FW-60, FW-70, FW-80, SP

REPRODUCTIVE TOXICITY
Not available

TERATOGENICITY, MUTAGENICITY
Not available

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:
Diatomaceous earth products have shown some efficacy as a natural insecticide, but otherwise have no demonstrated toxicity in regards to aquatic or terrestrial life.

PERSISTENCE AND DEGRADABILITY
Non-biodegradable, inert.

BIOACCUMULATIVE POTENTIAL
Little potential for bioaccumulation

MOBILITY IN SOIL
No mobility

OTHER ADVERSE EFFECTS
None known

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL
If this material as supplied becomes a waste, use solid waste disposal common to landfill type operations or in slurry to sumps. Not considered a hazardous waste under RCRA (40CFR Part 261).

PACKAGING DISPOSAL
Dispose of in accordance with applicable laws and regulations, typically solid waste disposal common to landfill type operations.

SECTION 14: TRANSPORT INFORMATION

BASIC SHIPPING INFORMATION
DOT shipping classification 55 (no restrictions). Technical name is “Diatomaceous Earth”.

ADDITIONAL INFORMATION
No special requirements or placarding necessary.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL:

TSCA
Diatomaceous Earth and Cristobalite appear on the EPA TSCA inventory list.

CERCLA
Diatomaceous Earth is not classified as a hazardous substance under regulations of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 40 CFR 302.

SARA TITLE III
Not listed.

California Proposition 65:
This product contains crystalline silica, a chemical known to the State of California to cause cancer.

INTERNATIONAL:

WHMIS Classification
Class D-2-A

WHMIS Ingredient Disclosure List
Silica, crystalline, cristobalite

SECTION 16: OTHER INFORMATION

NFPA
0 - 0 - 0
4-Extreme
3-High
2-Moderate
1-Slight
0-Insignificant

HMIS
0* Health
0 Flammability
0 Reactivity
E Protective Equipment

ORIGINAL ISSUE DATE
November 18, 1985

REVISION DATE
January 31, 2014

REVISION NO.
12

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