


**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT IDENTIFIER	Fiber Floc VAC, 10, 30
CHEMICAL NAME	Sodium Potassium Aluminum Silicate, Cellulose, Bleached, plus Diatomaceous Earth, Calcined
CHEMICAL FAMILY	Silicate/Cellulose
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	July 31, 2014

**SECTION 2: HAZARDS IDENTIFICATION**

OSHA GHS HAZARD CLASSIFICATION	Carcinogen Category 1A
HAZARDS NOT OTHERWISE CLASSIFIED	None
LABEL ELEMENTS	<p>DANGER                      May cause cancer by inhalation.                      Obtain special instructions before use.                      Do not handle until all safety precautions have been read and understood.                      Wear eye protection.                      If exposed or concerned: Get medical advice.                      Dispose of contents in accordance with local, state and federal regulations.</p> 

**SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS**

INGREDIENT IDENTIFICATION	APPROXIMATE CONCENTRATION (%)	C.A.S. NUMBERS
Perlite, expanded	Proprietary	93763-70-3
Cellulose	Proprietary	9004-34-6
Diatomaceous Earth, Calcined (kieselguhr) (contains <1% Crystalline Silica - Cristobalite)	Proprietary	91053-39-3

**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 high concentration of dust may cause lung effects.
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

<b>EXTINGUISHING MEDIA</b>	Water is most effective for ordinary combustibles such as cellulose
<b>SPECIFIC HAZARDS ARISING FROM THE CHEMICAL</b>	Cellulose is combustible and will burn under fire conditions, however, diatomaceous earth and cristobalite are not combustible.
<b>SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS</b>	No special procedures are required.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>PERSONAL PRECAUTIONS</b>	If dust is present, use respirator fitted with particulate filter as specified in Section 8. Protect eyes with goggles. Do not breathe dust. Eliminate ignition sources.
<b>ENVIRONMENTAL PRECAUTIONS</b>	This material is not a significant environmental concern.
<b>METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP</b>	Vacuum clean spillage, wet sweep or wash away. Avoid creating airborne dust. Place in a container for use or disposal.

## SECTION 7: HANDLING AND STORAGE

<b>PRECAUTIONS FOR SAFE HANDLING</b>	Minimize dust generation. Avoid contact with eyes. Do not breathe dust. Repair or dispose of broken bags. Observe all label precautions and warnings. Keep product away from open flames and hot surfaces.
<b>CONDITIONS FOR SAFE STORAGE</b>	Store in a dry place to maintain packaging integrity and product quality. Do not store near oxidizers, hydrofluoric acid or concentrated caustic solutions.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:				
Component	OSHA PEL	ACGIH TLV	MSHA PEL	NIOSH REL
Perlite, expanded	5 mg/m <sup>3</sup> (respirable dust) 15 mg/m <sup>3</sup> (total dust)	None Established	30 mppcf	5 mg/m <sup>3</sup> (respirable dust) 10 mg/m <sup>3</sup> (total dust)
Cellulose, wood fiber	5 mg/m <sup>3</sup> respirable dust 15 mg/m <sup>3</sup> total dust	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup> respirable dust 15 mg/m <sup>3</sup> total dust	5 mg/m <sup>3</sup> respirable dust 10 mg/m <sup>3</sup> total dust
Diatomaceous Earth, Flux-Calcined (kieselguhr)	5 mg/m <sup>3</sup> respirable dust 15 mg/m <sup>3</sup> total dust	None Established	5 mg/m <sup>3</sup> respirable dust 15 mg/m <sup>3</sup> total dust	None Established
Crystalline Silica (Cristobalite)	$\frac{1}{2} \times \frac{30 \text{ mg/m}^3}{\% \text{ SiO}_2+2}$ total dust  $\frac{1}{2} \times \frac{10 \text{ mg/m}^3}{\% \text{ SiO}_2+2}$ Respirable dust	0.025 mg/ m <sup>3</sup> Respirable dust	$\frac{1}{2} \times \frac{30 \text{ mg/m}^3}{\% \text{ SiO}_2+2}$ total dust  $\frac{1}{2} \times \frac{10 \text{ mg/m}^3}{\% \text{ SiO}_2+2}$ Respirable dust	0.05 mg/ m <sup>3</sup> Respirable dust

<b>ENGINEERING CONTROLS</b>	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.
<b>PERSONAL PROTECTIVE EQUIPMENT:</b>	
<b>EYE / FACE PROTECTION</b>	Goggles to protect from dust
<b>SKIN PROTECTION</b>	No special equipment is needed.
<b>RESPIRATORY PROTECTION</b>	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.

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

<b>APPEARANCE, COLOR</b>	Light pink to white powder	<b>ODOR</b>	Odorless
<b>PHYSICAL STATE</b>	Solid	<b>ODOR THRESHOLD</b>	Not applicable
<b>VAPOR PRESSURE</b>	Not applicable	<b>VAPOR DENSITY</b>	Not applicable
<b>BOILING POINT</b>	Not applicable	<b>MELTING POINT</b>	> 800° C
<b>FLASH POINT</b>	Not applicable	<b>pH (10% SUSPENSION)</b>	7
<b>FLAMMABILITY LIMITS</b>	Not applicable	<b>EVAPORATION RATE</b>	Not applicable
<b>DECOMPOSITION TEMPERATURE</b>	> 800° C	<b>SPEC. GRAVITY / RELATIVE DENSITY</b>	2.16 – 2.19
<b>AUTOIGNITION TEMPERATURE</b>	Not applicable	<b>PARTITION COEFFICIENT – n-OCTANOL/WATER</b>	Not applicable
<b>FLAMMABILITY (solid/gas)</b>	Not applicable	<b>SOLUBILITY – WATER</b>	< 2%
		<b>VISCOSITY</b>	Not applicable

## SECTION 10: STABILITY AND REACTIVITY

<b>REACTIVITY</b>	Material is not reactive.
<b>CHEMICAL STABILITY</b>	Material is stable.
<b>POSSIBILITY OF HAZARDOUS REACTIONS</b>	Material is not reactive.
<b>CONDITIONS TO AVOID</b>	Not applicable
<b>INCOMPATIBLE MATERIALS</b>	Hydrofluoric acid and concentrated caustic solutions may react violently with the product. Strong oxidizers may react with cellulose generating heat.
<b>HAZARDOUS DECOMPOSITION PRODUCTS</b>	Not applicable

## SECTION 11: TOXICOLOGICAL INFORMATION

<b>POTENTIAL HEALTH EFFECTS</b>	See below and Section 11 for additional information
<b>Likely Routes of Exposure</b>	See below
<b>EYE</b>	May cause mechanical irritation, resulting in tear formation and redness if dust gets in eyes.
<b>SKIN</b>	Not absorbed by the skin, but may cause dryness if prolonged exposure.
<b>INGESTION</b>	Ingestion of small to moderate quantities is not considered harmful, but may cause irritation of the mouth, throat and stomach.
<b>INHALATION</b>	Acute inhalation can cause dryness of the nasal passage and lung congestion, coughing and general throat irritation.
<b>CHRONIC EFFECTS</b>	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.
<b>CARCINOGENICITY</b>	Flux-calcined diatomaceous earth (Kieselguhr) is composed of amorphous and crystalline silica. Respirable crystalline silica (cristobalite) 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.
<b>NTP</b>	Respirable crystalline silica (cristobalite) is classified as a known human carcinogen.
<b>IARC</b>	Respirable crystalline silica (cristobalite) is classified as a known human carcinogen.
<b>NUMERICAL MEASURES OF TOXICITY</b>	Not data available
<b>CORROSIVENESS, SENSITIZATION, IRRITANCY</b>	Not applicable
<b>REPRODUCTIVE TOXICITY</b>	Not available

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<b>TERATOGENICITY, MUTAGENICITY</b>	Not available	
<b>SECTION 12: ECOLOGICAL INFORMATION</b>		
<b>ECOTOXICITY:</b>	Diatomaceous earth products have shown some efficacy as a natural insecticide, but otherwise have no demonstrated toxicity in regards to aquatic or terrestrial life.	
<b>PERSISTENCE AND DEGRADABILITY</b>	Diatomaceous earth is not biodegradable. Cellulose is biodegradable.	
<b>BIOACCUMULATIVE POTENTIAL</b>	Little potential for bioaccumulation	
<b>MOBILITY IN SOIL</b>	No mobility	
<b>OTHER ADVERSE EFFECTS</b>	None known	
<b>SECTION 13: DISPOSAL CONSIDERATIONS</b>		
<b>WASTE DISPOSAL</b>	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).	
<b>PACKAGING DISPOSAL</b>	Dispose of in accordance with applicable laws and regulations, typically solid waste disposal common to landfill type operations.	
<b>SECTION 14: TRANSPORT INFORMATION</b>		
<b>BASIC SHIPPING INFORMATION</b>	DOT shipping classification 55 (no restrictions). Technical name is "Perlite".	
<b>ADDITIONAL INFORMATION</b>	No special requirements or placarding necessary.	
<b>SECTION 15: REGULATORY INFORMATION</b>		
<b>U.S. FEDERAL:</b>		
<b>TSCA</b>	Diatomaceous Earth, Cristobalite and Cellulose appear on the EPA TSCA inventory list. Perlite is not on the EPA TSCA inventory list by name but as a natural material, it is automatically included.	
<b>CERCLA</b>	Perlite, Diatomaceous Earth and Cellulose is not classified as a hazardous substance under regulations of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 40 CFR 302.	
<b>SARA TITLE III</b>	Not listed.	
<b>California Proposition 65:</b>	This product contains crystalline silica, a chemical known to the State of California to cause cancer.	
<b>INTERNATIONAL:</b>		
<b>WHMIS Classification</b>	Class D-2-A	
<b>WHMIS Ingredient Disclosure List</b>	Silica crystalline, cristobalite	
<b>SECTION 16: OTHER INFORMATION</b>		
	 <p>NFPA</p> <p>4-Extreme 3-High 2-Moderate 1-Slight 0-Insignificant</p>	 <p>HMIS</p> <p>0* Health 0 Flammability 0 Reactivity E Protective Equipment</p>
<b>ORIGINAL ISSUE DATE</b>	May 11, 2009	
<b>REVISION DATE</b>	July 31, 2014	
<b>REVISION NO.</b>	4	

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