

<b>SECTION 1: PRODUCT AND COMPANY IDENTIFICATION</b>				
<b>PRODUCT TRADE NAME</b>	Fiber Flocc VAC, 10, 30			
<b>MANUFACTURER</b>	EP Minerals, LLC., 9875 Gateway Dr., Suite 1000, Reno, NV 89521			
<b>TELEPHONE NO.</b>	(775) 824 7600 (Monday – Friday 8:00 am PST – 5:00 pm PST)			
<b>CHEMICAL NAME</b>	Sodium Potassium Aluminum Silicate, Cellulose, Bleached, plus Diatomaceous Earth, Calcined			
<b>CHEMICAL FAMILY</b>	Silicate / Cellulose			
<b>MATERIAL USE</b>	Filter Aid			
<b>DATE OF PREPARATION</b>	May 11, 2009			
<b>SECTION 2: HAZARDS IDENTIFICATION</b>				
<b>EMERGENCY OVERVIEW: Appearance/Color/Odor</b>	A buff to pink, low density powder. There is no distinctive odor.			
<b>OSHA REGULATORY STATUS</b>	This material is not considered hazardous by the OSHA Hazard Communication Standard (29CFR 1910.1200)			
<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 irritation (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. Chronic inhalation of dust should be avoided.			
<b>CHRONIC EFFECTS</b>	<p>Perlite is a naturally occurring volcanic glass consisting of fused sodium – potassium – aluminum silicate. Tests conducted on Celatom Perlite have not identified crystalline silica as being present above the detection limit (0.05%).</p> <p>Although there are no published reports of adverse health effects from exposure to perlite dust, dust levels should be maintained below the OSHA Permissible Exposure Limit for perlite and respirators used when airborne dust is present.</p>			
<b>CONDITIONS AGGRAVATED BY EXPOSURE</b>	Pre-existing diseases of the upper respiratory tract and lung such as bronchitis, emphysema, and asthma.			
<b>ENVIRONMENTAL EFFECTS</b>	There are no significant environmental effects.			
<b>SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS</b>				
INGREDIENT IDENTIFICATION	APPROXIMATE CONCENTRATION (%)	C.A.S. NUMBERS	EINECS	R Factors
Expanded Perlite Cellulose Diatomaceous Earth, Calcined (kieselguhr)	Proprietary Proprietary Proprietary	93763-70-3 9004-34-6 91053-39-3	Not Listed 272-489-0	R48/20
<b>SECTION 4: FIRST AID MEASURES</b>				
<b>EYE</b>	Flush eyes with generous quantities of water or eye rinse solution. Consult physician if irritation persists.			
<b>SKIN</b>	Use moisture renewing lotions if dryness occurs.			
<b>INGESTION</b>	Drink generous amounts of water to reduce bulk and drying effects.			
<b>INHALATION</b>	Remove to fresh air. Blow nose to evacuate dust.			
<b>NOTE TO PHYSICIANS</b>	No special notes.			
<b>ANTIDOTE</b>	Not applicable			

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## SECTION 5: FIRE FIGHTING MEASURES

<b>FLAMMABILITY</b>	Cellulose fibers will char at or above 200° C, will smolder upon ignition.
<b>EXTINGUISHING MEDIA</b>	Water, other standard extinguishing media
<b>FIRE-FIGHTING PROCEDURES</b>	No special procedures required.
<b>PROTECTIVE EQUIPMENT</b>	No special equipment is required
<b>HAZARDOUS COMBUSTION PRODUCTS</b>	Not applicable.
<b>SPECIFIC PHYSICAL AND CHEMICAL HAZARDS</b>	Not applicable.
<b>EXPLOSION DATA</b>	Not applicable, the material is not explosive.

## 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.
<b>ENVIRONMENTAL PRECAUTIONS</b>	This material is not a significant environmental concern.
<b>CONTAINMENT AND CLEANUP</b>	Vacuum clean spillage, wet sweep or wash away. Avoid creating dust.

## SECTION 7: HANDLING AND STORAGE

<b>HANDLING</b>	Minimize dust generation. Avoid contact with eyes. Avoid breathing dust. Repair or dispose of broken bags.
<b>STORAGE</b>	Store in a dry place to maintain packaging integrity and product quality. Do not store near hydrofluoric acid. Observe all label precautions and warnings.

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>EXPOSURE GUIDELINES:</b>					
Component	OSHA PEL	ACGIH TLV	MSHA PEL	NIOSH REL	
Diatomaceous Earth, Calcined (kieselguhr)	10 mg/m <sup>3</sup> total dust for products containing < 1% quartz	3 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	6 mg/m <sup>3</sup>	
Perlite	15 mg/m <sup>3</sup> total dust for products containing < 1% quartz	10 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	6 mg/m <sup>3</sup>	
Cellulose	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>	
<b>ENGINEERING CONTROLS</b>	Local – Control dust within recommended TLV/PEL. Refer to ACGIH publication “Industrial Ventilation” or similar publications for design of ventilation systems.				
<b>PERSONAL PROTECTIVE EQUIPMENT:</b>	See below				
<b>EYE / FACE</b>	Goggles to protect from dust				
<b>SKIN</b>	No special equipment is needed.				
<b>RESPIRATORY</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.				
<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

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

## SECTION 10: STABILITY AND REACTIVITY

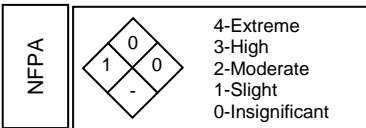
CHEMICAL STABILITY	Material is stable.
PHYSICAL HAZARDS	Material is not reactive.
CONDITIONS TO AVOID	Not applicable
INCOMPATIBLE MATERIALS	Hydrofluoric acid. Products containing silica may react violently with hydrofluoric acid.
HAZARDOUS DECOMPOSITION PRODUCTS	Not applicable

## SECTION 11: TOXICOLOGICAL INFORMATION

CHRONIC EFFECTS / CARCINOGENICITY	<p>Although there are no reports of adverse health effects from exposure to perlite dust, inhalation of high concentrations of perlite dust or any other particulates for prolonged periods of time may cause lung damage.</p> <p>Calcined diatomaceous earth (Kieselguhr) in this product contains less than 1% crystalline silica, and is primarily amorphous. Amorphous silica is not classifiable as carcinogenic to humans.</p>
ROUTE OF EXPOSURE	Inhalation (chronic)
SYMPTOMS	Not available
LD50	Not available
IMMEDIATE AND DELAYED EFFECTS	No immediate effects. See CHRONIC EFFECTS for potential long-term effects when prolonged exposure to levels of dust in excess of OSHA PEL and ACGIH TLV..
CORROSIVENESS, SENSITIZATION, IRRITANCY	Not applicable
REPRODUCTIVE TOXICITY	Not available
TERATOGENICITY, MUTAGENICITY	Not available
TOXICOLOGICALLY SYNERGISTIC PRODUCTS	Inhaled smoke from tobacco products (chronic).

## SECTION 12: ECOLOGICAL INFORMATION

CHARACTERISTICS	Non-biodegradable, inert, with little potential for bioaccumulation.
POSSIBLE EFFECTS	No demonstrated toxicity in regards to aquatic or terrestrial life.

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<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>OSHA</b>	Perlite is not classified as a toxic and hazardous substance.						
<b>TSCA</b>	Not listed						
<b>CERCLA</b>	Perlite 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>NTP</b>	Not listed.						
<b>INTERNATIONAL:</b>							
<b>IARC</b>	Not classified.						
<b>WHMIS Classification</b>	These products are not regulated by WHMIS						
<b>WHMIS Ingredient Disclosure List</b>	Crystalline silica Included for disclosure at 1% or greater, does not apply for these products.						
<b>EEC Label (Risk/Safety Phrases)</b>	R48/20, S22, S38						
<b>SECTION 16: OTHER INFORMATION</b>							
		<table border="1"> <tr> <td rowspan="4" style="writing-mode: vertical-rl; transform: rotate(180deg);">HMIS</td> <td>* Health</td> </tr> <tr> <td>0 Flammability</td> </tr> <tr> <td>0 Reactivity</td> </tr> <tr> <td>E Protective Equipment</td> </tr> </table>	HMIS	* Health	0 Flammability	0 Reactivity	E Protective Equipment
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<b>ORIGINAL ISSUE DATE</b>	May 11, 2009						
<b>REVISION DATE</b>	May 11, 2009						
<b>REVISION NO.</b>	1						

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