

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT	AND CO	OMPANY IDENTIFICA	TION		Page 1 of	
PRODUCT TRADE NAME	Celatom F	FW-12, FW-14, FW-18, FW-20, F	W-40, FW-50, FW-60, FW-7	70, FW-80, SP	· · · · · · · · · · · · · · · · · · ·	
MANUFACTURER	EP Minera	EP Minerals, LLC., 9875 Gateway Dr., Suite 1000, Reno, NV 89521				
TELEPHONE NO.	(775) 824 7600 (Monday – Friday 8:00 am PST – 5:00 pm PST)					
CHEMICAL NAME	Diatomace	Diatomaceous Earth, Flux-Calcined				
CHEMICAL FAMILY	Silica					
MATERIAL USE	Filter Aid					
DATE OF PREPARATION	February 28, 2007					
SECTION 2: HAZARDS	IDENTIF	FICATION				
EMERGENCY OVERVIEW: Appearance//Color/Odor	A white, lov	v density powder. There is no di	stinctive odor.			
OSHA REGULATORY STATUS	This material is considered hazardous by the OSHA Hazard Communication Standard (29CFR 1910.1200)					
POTENTIAL HEALTH EFFECTS	See below and Section 11 for additional information					
Likely Routes of Exposure	See below					
EYE	May cause irritation (tear formation and redness) if dust gets in eyes.					
SKIN	Not absorbed by the skin, but may cause dryness if prolonged exposure.					
INGESTION	Ingestion of small to moderate quantities is not considered harmful, but may cause imitation of the mouth, throand stomach.					
INHALATION	Acute inhalation can cause dryness of the nasal passage and lung congestion, coughing and general throat irritation. Chronic inhalation of dust should be avoided.					
CHRONIC EFFECTS	Chronic inhalation of crystalline silica dust in excess of the Threshold Limit Value (TLV) recommended by the American Conference of Governmental Industrial Hygienists (ACGIH)(.025mg/m³) or in excess of the Permissit Exposure Limit (PEL) established by OSHA (0.050mg/m³), over a prolonged number of years may contribute to silicosis. Crystalline silica, when inhaled as respirable dust, has been classified in a 1997 monograph (Volume 68, "Silica") of the International Agency for Research on Cancer (IARC) as carcinogenic to humans over prolonged and sustained exposure.					
CONDITIONS AGGRAVATED BY EXPOSURE	Pre-existing diseases of the upper respiratory tract and lung such as bronchitis, emphysema, and asthma.					
ENVIRONMENTAL EFFECTS	There are no significant environmental effects.					
SECTION 3: COMPOSI	TION / IN	FORMATION ON INC	REDIENTS			
INGREDIENT IDENTIFICATION		APPROXIMATE CONCENTRATION (%)	C.A.S. NUMBERS	EINECS	R Factors	
Diatomaceous Earth, Flux-Calcined (I	kieselguhr)	100%	68855-54-9	272-489-0		
Crystalline Silica (Cristobalite)		35-50%	14464-46-1	238-455-4	R48/20	
SECTION 4: FIRST AID	MEASU	RES			1	
EYE	Flush eyes	with generous quantities of wate	r or eye rinse solution. Cons	ult physician if irritation	n persists.	
SKIN	 	re renewing lotions if dryness oc	· ·	-		
NGESTION	 	rous amounts of water to reduce	······································			
NHALATION	Remove to fresh air. Blow nose to evacuate dust.					
NOTE TO PHYSICIANS	No special notes.					
ANTIDOTE	Not applica					
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SECTION 5: FIRE FIGHT	TING M	EASURES	· · · · · · · · · · · · · · · · · · ·		
FLAMMABILITY	This material is not flammable.				
EXTINGUISHING MEDIA	Not applicable, the material is not flammable.				
FIRE-FIGHTING PROCEDURES	Not applicable, the material is not flammable.				
PROTECTIVE EQUIPMENT	Not applicable, the material is not flammable				
HAZARDOUS COMBUSTION PRODUCTS	Not applicable, the material does not combust.				
SPECIFIC PHYSICAL AND CHEMICAL HAZARDS	Not applicable, the material is not flammable.				
EXPLOSION DATA	Not applicable, the material is not explosive.				
SECTION 6: ACCIDENT	AL REL	EASE MEA	SURES		
PERSONAL PRECAUTIONS	If dust is present, use respirator fitted with particulate filter as specified in Section 8. Protect eyes with goggles.			xt eyes with goggles.	
ENVIRONMENTAL PRECAUTIONS	This material is not a significant environmental concern.				
CONTAINMENT AND CLEANUP	Vacuum clean spillage, wet sweep or wash away. Avoid creating dust.				
SECTION 7: HANDLING	AND S	TORAGE			
HANDLING	Minimize dust generation. Avoid contact with eyes. Avoid breathing dust. Repair or dispose of broken bags.				
STORAGE	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	CONT	ROLS / PEF	RSONAL PE	ROTECTION	
EXPOSURE GUIDELINES:					
Component		OSHA PEL	ACGIH TLV	MSHA PEL	NIOSH REL
Diatomaceous Earth, Flux-Calcined (kieselguhr)		See below	See below	See below	See below
Crystalline Silica (Cristobalite)		0.050 mg/m ³	0.025 mg/m ³	0.5*10/(% respirable crystalline silica +2)	0.025 mg/m ³
ENGINEERING CONTROLS	Local – Control dust within recommended TLV/PEL. Refer to ACGIH publication "Industrial Ventilation" or similar publications for design of ventilation systems.			Ventilation" or similar	
PERSONAL PROTECTIVE EQUIPMENT:	See below				
EYE / FACE	Goggles to protect from dust				
SKIN	No special equipment is needed.				
RESPIRATORY	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.				

For sampling silica dusts refer to NIOSH Analytical Method 7500 or OSHA method ID 142

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SECTION 9: PHYSICAL	AND CHEMICAL PROP	PERTIES			
APPEARANCE, COLOR	Light pink to white powder ODOR Odo		Odor	ess	
PHYSICAL STATE	Solid pH (10% SUSPENSION)		10	10	
VAPOR PRESSURE	Not applicable	VAPOR DENSITY	POR DENSITY Not applicable		
BOILING POINT	Not applicable MELTING POINT > 1300 °C		0°C		
FLASH POINT	Not applicable FLAMMABILITY Not applicable				
FLAMMABILITY LIMITS	Not applicable	AUTOIGNITION TEMPERATURE	Not applicable		
DECOMPOSITION TEMPERATURE	> 1300 °C	SPEC. GRAVITY / REL. DENSITY	2.3		
EVAPORATION RATE	Not applicable	COEFF WATER / OIL	Not applicable		
ODOR THRESHOLD	Not applicable	SOLUBILITY - WATER	< 1%		
PARTITION COEFFICIENT	Not applicable				
SECTION 10: STABILIT	Y 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: TOXICOL	OGICAL INFORMATION				
CHRONIC EFFECTS / CARCINOGENICITY	silica is not classifiable as carcinog classified as carcinogenic to huma crystalline silica may contribute to monograph (Volume 68, "Silica"), t the epidemiological findings suppo	(Kieselguhr) is composed of amorphougenic to humans. Crystalline silica, whoms over prolonged and sustained expothe respiratory disease "silicosis", a nothe International Agency for Research of increased risk of lung cancer from in Group 1), while there was inadequate a (classified in Group 3).	en inhaled as respirab sure. Long-term inha n-cancerous lung dise on Cancer (IARC) con thaled crystalline silica	ele dust, has been lation of respirable ease. In a 1997 cluded that overall resulting from	
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 crystalline silica 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 produ	ucts (chronic).			
SECTION 12: ECOLOG	ICAL INFORMATION				
CHARACTERISTICS	Non-biodegradable, inert, with little				
POSSIBLE EFFECTS	Diatomaceous earth products have shown some efficacy as a natural insecticide, but otherwise have no demonstrated toxicity in regards to aquatic or terrestrial life.				

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SECTION 13: DISPO	SAL 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 (4OCFR Part 261).			
PACKAGING DISPOSAL	Dispose of in accordance with applicable laws and regulations, typically solid waste disposal common to landfill type operations.			
SECTION 14: TRANS	SPORT INFORMATION			
BASIC SHIPPING INFORMATIO	DOT shipping classification 55 (no restrictions). Technical name is "Diatomaceous Earth".			
ADDITIONAL INFORMATION	No special requirements or placarding necessary.			
SECTION 15: REGUL	ATORY INFORMATION			
U.S. FEDERAL:				
OSHA	Under the Hazard Communication Standards, crystalline silica is classified as a toxic and hazardous substance.			
TSCA	Crystalline silica appears on the EPA TSCA inventory list, but is not regulated.			
CERCLA	Crystalline silica 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.			
NTP	Respirable crystalline silica, primarily quartz dusts occurring in industrial and occupational settings, is classified as a carcinogen.			
INTERNATIONAL:				
IARC	"Inhaled crystalline silica from occupational sources" – Group 1 – is classified in IARC as a carcinogen.			
WHMIS Classification	Crystalline silica is classified as a D2A substance			
WHMIS Ingredient Disclosure List	Included for disclosure at 1% or greater. Meets criteria for disclosure at 0.1% or greater.			
EEC Label (Risk/Safety Phrases)	R48/20, S22, S38			
SECTION 16: OTHER	R INFORMATION			
	4-Extreme 3-High 2-Moderate 1-Slight 0-Insignificant * Health Flammability Reactivity E Protective Equipment			
ORIGINAL ISSUE DATE	November 18, 1985			
REVISION DATE	February 27, 2007			
REVISION NO.	10			

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