

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION Page 1 of 4 PRODUCT TRADE NAME CelaPed MANUFACTURER 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 Sodium Potassium Aluminum Silicate CHEMICAL FAMILY Silicate MATERIAL USE Filter aid, Functional additive DATE OF PREPARATION April 5, 2007 **SECTION 2: HAZARDS IDENTIFICATION EMERGENCY OVERVIEW:** A white to off-white, low density powder. There is no distinctive odor. Appearance//Color/Odor OSHA REGULATORY STATUS This material is not 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 imitation (tear formation and redness) if dust gets in eyes. SKIN Not absorbed by the skin, but may cause dryness if prolonged exposure. Ingestion of small to moderate quantities is not considered harmful, but may cause irritation of the mouth, throat INGESTION Acute inhalation can cause dryness of the nasal passage and lung congestion, coughing and general throat INHALATION irritation. Chronic inhalation of dust should be avoided. Perlite is a naturally occurring volcanic glass consisting of fused sodium - potassium - aluminum silicate. Tests conducted on Celatorn Perlite have not identified crystalline silica as being present above the detection limit **CHRONIC EFFECTS** 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 CONDITIONS AGGRAVATED BY Pre-existing diseases of the upper respiratory tract and lung such as bronchitis, emphysema, and asthma. **EXPOSURE ENVIRONMENTAL EFFECTS** There are no significant environmental effects. SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS INGREDIENT IDENTIFICATION **APPROXIMATE** CONCENTRATION (%) C.A.S. NUMBERS **EINECS** Perlite R Factors 100% 93763-70-3 Not listed R48/20 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. NOTE TO PHYSICIANS No special notes. ANTIDOTE Not applicable

SECTION & FIRE TIO	CelaP				Page 2 of 4		
SECTION 5: FIRE FIG							
 	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 SPECIFIC PHYSICAL AND	Not ap	Not applicable, the material does not combust.					
CHEMICAL HAZARDS		Not applicable, the material is not flammable.					
EXPLOSION DATA	Not app	Not applicable, the material is not explosive.					
SECTION 6: ACCIDEN	TAL RE	LEASE MEASU	RES				
PERSONAL PRECAUTIONS	If dust i	s present, use respirator fi	itted with particulate	e filter as specified in Section 8	Dente et a		
ENVIRONMENTAL PRECAUTIONS	This ma	If dust is present, use respirator fitted with particulate filter as specified in Section 8. Protect eyes with goggles This material is not a significant environmental concern.					
CONTAINMENT AND CLEANUP		ı clean spillage, wet swee					
SECTION 7: HANDLING	G AND	STORAGE					
HANDLING	Minimiza	Minimize dust generation. Avoid contact with eyes. Avoid breathing dust. Repair or dispose of broken bags.					
STORAGE	I Store in	a dry place to maintain pa all label precautions and	al	nd product quality. Do not store	near hydrofluoric acid		
SECTION 8: EXPOSUR	E CON	TROLS / PERSO	NAL PROTE	CTION			
EXPOSURE GUIDELINES:			MAL PROTE	CHON			
EXPOSURE GUIDELINES:				CHON			
EXPOSURE GUIDELINES: Component		OSHA PEL	ACGIH TLV	MSHA PEL	NIOSH REL		
EXPOSURE GUIDELINES:					NIOSH REL 6 mg/m³		
EXPOSURE GUIDELINES: Component	guhr)	OSHA PEL 15 mg/m³ total dust for products containing < 1% quartz	ACGIH TLV 10 mg/m³ total dust	MSHA PEL 5 mg/m³	6 mg/m³		
Component Clatomaceous Earth, Natural (kieseig NGINEERING CONTROLS ERSONAL PROTECTIVE	guhr)	OSHA PEL 15 mg/m³ total dust for products containing < 1% quartz ontrol dust within recommns for design of ventilation	ACGIH TLV 10 mg/m³ total dust	MSHA PEL	6 mg/m³		
Component Component	Local – C publication	OSHA PEL 15 mg/m³ total dust for products containing < 1% quartz ontrol dust within recommns for design of ventilation	ACGIH TLV 10 mg/m³ total dust	MSHA PEL 5 mg/m³	6 mg/m³		
Component Component Clatomaceous Earth, Natural (kieselg NGINEERING CONTROLS ERSONAL PROTECTIVE QUIPMENT: EYE / FACE	Local – C publication See below	OSHA PEL 15 mg/m³ total dust for products containing < 1% quartz ontrol dust within recommns for design of ventilation v	ACGIH TLV 10 mg/m³ total dust	MSHA PEL 5 mg/m³	6 mg/m³		
Component Component Islatomaceous Earth, Natural (kieselg NGINEERING CONTROLS ERSONAL PROTECTIVE QUIPMENT:	Local – C publication See below Goggles t No specia	OSHA PEL 15 mg/m³ total dust for products containing < 1% quartz ontrol dust within recomm ns for design of ventilation v o protect from dust il equipment is needed.	ACGIH TLV 10 mg/m³ total dust ended TLV/PEL. For systems.	MSHA PEL 5 mg/m³ Refer to ACGIH publication *Indu	6 mg/m³ strial Ventilation° or simita		
Component Component Clatomaceous Earth, Natural (kieselg NGINEERING CONTROLS ERSONAL PROTECTIVE QUIPMENT: EYE / FACE	Local – C publication See below Goggles t No special Respirator present. I or half-ma than ten (1 filters is re PEL use a greater the	OSHA PEL 15 mg/m³ total dust for products containing < 1% quartz ontrol dust within recomm ns for design of ventilation v o protect from dust i equipment is needed. If the dust concentration is sk respirator with a N95 di (0) times and less than fifty commended. If dust concentration (power air-purifying (position) to the power air-purifying (position) to the power air-purifying (position)	ACGIH TLV 10 mg/m³ total dust ended TLV/PEL. For systems. I to standard 42CFI less than ten (10) less filter or a single y (50) times the PE entration is greater we pressure) respire	MSHA PEL 5 mg/m³ Refer to ACGIH publication *Indu R84 under series N95 should be times the Permissible Exposure use dust mask rated N95. If dust, a full-face piece respirator fitte than fifty (50) and less than two	strial Ventilation* or similar worn when dust is Limit (PEL) use a quarter st concentration is greater to with replaced (200) three the		
Component Clatomaceous Earth, Natural (kieselg NGINEERING CONTROLS ERSONAL PROTECTIVE QUIPMENT: EYE / FACE SKIN	Local – C publicatio See below Goggles t No specia Respirator present. I or half-ma than ten (1 filters is re PEL use a greater the pressure), Avoid brea	OSHA PEL 15 mg/m³ total dust for products containing < 1% quartz ontrol dust within recomm ns for design of ventilation v o protect from dust i equipment is needed. If the dust concentration is sk respirator with a N95 di commended. If dust concepower air-purifying (position two hundred (200) times with full face piece, hood othing dust. Avoid contact	ACGIH TLV 10 mg/m³ total dust ended TLV/PEL. F i systems. I to standard 42CFI less than ten (10) tust filter or a single y (50) times the PE entration is greater ve pressure) respir s the PEL use a typ or helmet.	MSHA PEL 5 mg/m³ Refer to ACGIH publication *Indu R84 under series N95 should be times the Permissible Exposure use dust mask rated N95. If dust. a full-face piece respirator fitte.	strial Ventilation* or simila worn when dust is Limit (PEL) use a quarter st concentration is greater ed with replaceable N95 hundred (200) times the . If dust concentration is tinuous flow, positive		

MATERIAL NAME	CelaPerl		-	Page 3 of 4			
SECTION 9: PHYSICA	AL AND CHEMICAL PRO	PERTIES	 -				
APPEARANCE, COLOR	White to off white powder	ODOR	01.1				
PHYSICAL STATE	Solid	pH (10% SUSPENSION)	Odoriess				
VAPOR PRESSURE	Not applicable	VAPOR DENSITY	7				
BOILING POINT	Not applicable	MELTING POINT	Not applicable				
FLASH POINT	Not applicable	FLAMMABILITY	> 800°C				
FLAMMABILITY LIMITS	Not applicable	AUTOIGNITION TEMPERATURE	Not applicable				
DECOMPOSITION TEMPERATURE	> 800°C	SPEC. GRAVITY / REL.	Not applicable				
EVAPORATION RATE	Not applicable	DENSITY	2.3				
ODOR THRESHOLD		COEFF WATER / OIL	Not appli	cable			
PARTITION COEFFICIENT	Not applicable	SOLUBILITY - WATER	< 1%				
	Not applicable						
SECTION 10: STABILI	I Y AND REACTIVITY						
CHEMICAL STABILITY	Material is stable.						
PHYSICAL HAZARDS	Material is not reactive.						
CONDITIONS TO AVOID	Not applicable	Not applicable					
NCOMPATIBLE MATERIALS	Hydrofluoric acid. Products containing silica may react violently with hydrofluoric acid.						
HAZARDOUS DECOMPOSITION PRODUCTS	Not applicable	, and an arrivation	mount actu.				
CHRONIC EFFECTS / CARCINOGENICITY		iverse health effects from exposure to per y other particulates for prolonged period y diffraction have not identified any phas	s of time may cause lur	enemeh D			
OUTE OF EXPOSURE							
YMPTOMS		Inhalation (chronic)					
D50	Not available						
MEDIATE AND DELAYED	Not available 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.						
ORROSIVENESS, ENSITIZATION, IRRITANCY	Not applicable	L and ACGIH TLV.	- Freininged ex				
EPRODUCTIVE TOXICITY	Not available						
ERATOGENICITY, UTAGENICITY	Not available						
OXICOLOGICALLY (NERGISTIC PRODUCTS	Inhaled smoke from tobacco product	s (chronic).					
ECTION 40 BOOK SO	CAL INFORMATION						
ECTION 12: ECOLOGI	OVE IM OKNIN HOM						
ECTION 12: ECOLOGI MARACTERISTICS DSSIBLE EFFECTS	Non-biodegradable, inert, with little p	olential for bloaccumulation					

MATERIAL NAME	CelaPeri							
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 (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: TRANSPORT INFORMATION								
BASIC SHIPPING INFORMAT								
ADDITIONAL INFORMATION	No special requirements or placarding necessary.							
SECTION 15: REGULATORY INFORMATION								
U.S. FEDERAL:		<u> </u>						
OSHA	Perlite is not classified as a toxic and hazardous substance.							
TSCA	Not listed.							
CERCLA	Perlite 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	Not listed.							
INTERNATIONAL:								
IARC	Not classified.							
WHMIS Classification	These products are not regulated by WHMIS							
WHMIS ingredient Disclosure List	Crystalline silica included for disclosure at 1% or greater, does not apply for these products.							
EEC Label (Risk/Safety Phrases)	R48/20, S22, S38							
SECTION 16: OTHER INFORMATION								
	4-Extreme Health							
	1 0 2-Moderate Ω 0 Flammability							
	1-Slight 0-Insignificant							
ORIGINAL ISSUE DATE	E Protective Equipment							
	May 26, 1993							
REVISION DATE	April 5, 2007							
REVISION NO.	5							

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