

## **SAFETY DATA SHEET**

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SECTION 1: PRODUCT	AND CC	MPANY IDENTIFICA	TION	_		
PRODUCT IDENTIFIER	OPTISORB					
CHEMICAL NAME	Diatomaceous Earth, Natural					
CHEMICAL FAMILY	Silica					
MATERIAL USE	Industrial Absorbent					
RESTRICTION ON USE	None Known					
MANUFACTURER	EP Minerals, LLC., 9785 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	October 31, 2013					
SECTION 2: HAZARDS IDENTIFICATION						
OSHA GHS HAZARD CLASSIFICATION	Not classified as hazardous					
HAZARDS NOT OTHERWISE CLASSIFIED	None					
LABEL ELEMENTS	No GHS labeling required					
SECTION 3: COMPOSIT	TION / IN	FORMATION ON ING	REDIENTS			
INGREDIENT IDENTIFICATION		APPROXIMATE CONCENTRATION (%)	C.A.S. NUMBERS	EINECS		
Diatomaceous Earth, Natural (kieselguhr)		100%	61790-53-2 or 7631-86-9	231-545-4		
SECTION 4: FIRST AID	MEASU	RES				
EYE	Flush eyes	with generous quantities of water	or eye rinse solution. Consul	t physician if irritation persists.		
SKIN	Use moistu	re renewing lotions if dryness occ	curs.			
INGESTION	Drink gener	rous amounts of water to reduce	oulk 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.					

MATERIAL NAME	OPTISOI				Page 2 of 4	
SECTION 5: FIRE FIGH					1 ugo 2 01 4	
EXTINGUISHING MEDIA	1		combustible			
SPECIFIC HAZARDS ARISING	- ''	Not applicable, the material is not combustible.				
FROM THE CHEMICAL SPECIAL PROTECTIVE	ног арріі	Not applicable, the material is not combustible.				
EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS	Not applie	Not applicable, the material is not combustible.				
SECTION 6: ACCIDENT	AL REL	EASE MEASUR	ES			
PERSONAL PRECAUTIONS	If dust is	present, use respirator fitt	ed with particulate	filter as specified in Section 8. Protec	t eyes with goggles.	
ENVIRONMENTAL PRECAUTIONS	This mate	erial is not a significant en	vironmental concer	n.		
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP	Vacuum (	Vacuum clean spillage, wet sweep or wash away. Avoid creating dust. Place in a container for use or disposal.				
SECTION 7: HANDLING	AND S	TORAGE				
PRECAUTIONS FOR SAFE HANDLING	Minimize dust generation. Avoid contact with eyes. Avoid breathing 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 strongly basic solutions.					
<b>SECTION 8: EXPOSUR</b>	E CONT	ROLS / PERSOI	NAL PROTE	CTION		
EXPOSURE GUIDELINES:						
Component		OSHA PEL	ACGIH TLV	MSHA PEL	NIOSH REL	
Diatomaceous Earth, Natural (kieselguhr)		80 mg/m³ % SiO <sub>2</sub> total dust	None Established	5 mg/m³	6 mg/m <sup>3</sup>	
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	Goggles to protect from dust				
SKIN PROTECTION	No specia	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.					

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SECTION 9: PHYSICAL	AND CHEMICAL PRO	PERTIES			
APPEARANCE, COLOR	Buff to off white granules	ODOR	Odorless		
PHYSICAL STATE	Solid	ODOR THRESHOLD	Not applicable		
VAPOR PRESSURE	Not applicable	VAPOR DENSITY	Not applicable		
BOILING POINT	Not applicable	MELTING POINT	> 1300° C		
FLASH POINT	Not applicable	pH (10% SUSPENSION)	7		
FLAMMABILITY LIMITS	Not applicable	EVAPORATION RATE	Not applicable		
DECOMPOSITION TEMPERATURE	> 1300° C	SPEC. GRAVITY / RELATIVE DENSITY	2.2		
AUTOIGNITION TEMPERATURE	Not applicable	PARTITION COEFFICIENT – n- OCTANOL/WATER	Not applicable		
FLAMMABILITY (solid/gas)	Not applicable	SOLUBILITY – WATER	< 19	%	
		VISCOSITY	Not appl	icable	
<b>SECTION 10: STABILIT</b>	Y AND REACTIVITY				
REACTIVITY	Material is not reactive.				
CHEMICAL STABILITY	Material is stable.				
POSSIBILITY OF HAZARDOUS REACTIONS	Material is not reactive.				
CONDITIONS TO AVOID	Not applicable				
INCOMPATIBLE MATERIALS	Products containing silica may react violently with hydrofluoric acid and strongly basic solutions.				
HAZARDOUS DECOMPOSITION PRODUCTS	Not applicable				
SECTION 11: TOXICOL	OGICAL INFORMATIO	N			
POTENTIAL HEALTH EFFECTS	See below and Section 11 for ad	ditional 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 irritation of the mouth, throat and 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 dust in excess of the Permissible Exposure Limit (PEL) established by OSHA over a prolonged number of years may cause lung changes.				
NTP	Diatomaceous Earth, Natural is r	not classified as a carcinogen.			
IARC	Diatomaceous Earth, Natural is not classifiable as to carcinogenicity in humans (Group 3).				
NUMERICAL MEASURES OF TOXICITY	No data available				

MATERIAL NAME	OPTISORB P	age 4 of 4		
CORROSIVENESS, SENSITIZATION, IRRITANCY	Not applicable			
REPRODUCTIVE TOXICITY	Not available			
TERATOGENICITY, MUTAGENICITY	Not available			
SECTION 12: ECOL	OGICAL INFORMATION			
ECOTOXICITY:	Diatomaceous earth products have shown some efficacy as a natural insecticide, but otherwise have demonstrated toxicity in regards to aquatic or terrestrial life.	e no		
PERSISTENCE AND DEGRADABILITY	Non-biodegradable, inert.			
BIOACCUMULATIVE POTENT	Little potential for bioaccumulation			
MOBILITY IN SOIL	No mobility			
OTHER ADVERSE EFFECTS	None known			
SECTION 13: DISPO	SAL CONSIDERATIONS			
WASTE DISPOSAL	If this material as supplied becomes a waste, use solid waste disposal common to landfill type operations sumps. Not considered a hazardous waste under RCRA (4OCFR Part 261).	or in slurry to		
PACKAGING DISPOSAL	Dispose of in accordance with applicable laws and regulations, typically solid waste disposal common to operations.	landfill type		
SECTION 14: TRANS	SPORT 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: REGU	LATORY INFORMATION			
U.S. FEDERAL:				
TSCA	piatomaceous Earth, Natural appears on the EPA TSCA inventory list.			
CERCLA	Diatomaceous Earth, Natural 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	These products are not regulated by WUIMIC			
WHMIS Ingredient	These products are not regulated by WHMIS			
Disclosure List	No reportable ingredients are present.			
SECTION 16: OTHE	RINFORMATION			
	0 Health			
	4-Extreme 3-High 0 Flammability			
	2-Moderate $\frac{0}{8}$			
	0-Insignificant			
	E Protective Equipment			
ORIGINAL ISSUE DATE	March 4, 1994			
REVISION DATE	March 10, 2015			
REVISION NO.	9			

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