

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

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	July 21, 2025

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: COMPOSITION / INFORMATION ON INGREDIENTS

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 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.

MATERIAL NAME	OPTISORB®			Page 2 of 4
SECTION 5: FIRE FIGHTING MEASURES				
EXTINGUISHING MEDIA	Not applicable, the material is not combustible.			
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL	Not applicable, the material is not combustible.			
SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS	Not applicable, the material is not combustible.			
SECTION 6: ACCIDENTAL RELEASE MEASURES				
PERSONAL PRECAUTIONS	If dust is present, use respirator fitted with particulate filter as specified in Section 8. Protect eyes with goggles.			
ENVIRONMENTAL PRECAUTIONS	This material is not a significant environmental concern.			
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP	Vacuum clean spillage, wet sweep or wash away. Avoid creating dust. Place in a container for use or disposal.			
SECTION 7: HANDLING AND STORAGE				
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.			
SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION				
EXPOSURE GUIDELINES:				
Component	OSHA PEL	ACGIH TLV	MSHA PEL	NIOSH REL
Diatomaceous Earth, Natural (kieselguhr)	80 mg/m ³ % SiO ₂ total dust	None Established	5 mg/m ³	6 mg/m ³
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 to protect from dust			
SKIN PROTECTION	No special equipment is needed.			
RESPIRATORY PROTECTION	If the exposure limits are exceeded, a NIOSH approved respirator appropriate for the form and concentration of the contaminants should be used. For example, if the dust concentration is less than ten (10) times the Permissible Exposure Limit (PEL), use a quarter or half-mask respirator with an N95 dust filter or a single-use dust mask rated N95. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134; or in Canada with CSA Standard Z94.4 and good industrial hygiene practice.			
GENERAL HYGIENE	Avoid breathing dust. Avoid contact with eyes. Wash hands after handling and before eating or drinking.			

MATERIAL NAME	OPTISORB®		Page 3 of 4
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
PHYSICAL STATE	Solid	COLOR	Buff to off white granules
ODOR	Odorless	pH (10% SUSPENSION)	7
MELTING POINT/FREEZING POINT:	> 1300° C	BOILING POINT/RANGE	Not applicable
FLASH POINT	Not applicable	EVAPORATION RATE	Not applicable
FLAMMABLE LIMITS: LEL	Not applicable	UEL	Not applicable
VAPOR PRESSURE	Not applicable	RELATIVE VAPOR DENSITY	Not applicable
DENSITY / RELATIVE DENSITY	2.2	SOLUBILITY(IES):	< 1% (water)
PARTITION COEFFICIENT: n-OCTANOL/WATER:	Not applicable	AUTO-IGNITION TEMPERATURE	Not applicable
DECOMPOSITION TEMPERATURE	> 1300° C	FLAMMABILITY	Not applicable
PARTICLE CHARACTERISTICS	Not determined	KINEMATIC VISCOSITY	Not applicable
SECTION 10: STABILITY 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: TOXICOLOGICAL INFORMATION			
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 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 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®		Page 4 of 4						
CORROSIVENESS, SENSITIZATION, IRRITANCY		Not applicable								
REPRODUCTIVE TOXICITY		Not available								
TERATOGENICITY, MUTAGENICITY		Not available								
SECTION 12: ECOLOGICAL INFORMATION										
ECOTOXICITY		Diatomaceous earth products have shown some efficacy as a natural insecticide, but otherwise have no demonstrated toxicity in regards to aquatic or terrestrial life.								
PERSISTENCE AND DEGRADABILITY		Non-biodegradable, inert.								
BIOACCUMULATIVE POTENTIAL		Little potential for bioaccumulation								
MOBILITY IN SOIL		No mobility								
OTHER ADVERSE EFFECTS		None known								
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 (40CFR 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										
UN NUMBER		Not applicable								
UN PROPER SHIPPING NAME		Not regulated								
TRANSPORT HAZARD CLASSES(ES)		Not classified								
PACKING GROUP, IF APPLICABLE		Not applicable								
ENVIRONMENTAL HAZARDS		Not a marine pollutant								
TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS:		Not determined								
SPECIAL PRECAUTIONS		None (no placarding or special handling required)								
SECTION 15: REGULATORY INFORMATION										
U.S. FEDERAL:										
TSCA		Diatomaceous 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.								
SECTION 16: OTHER INFORMATION										
				<table border="1"> <tr> <td rowspan="4">HMIS</td> <td>0 Health</td> </tr> <tr> <td>0 Flammability</td> </tr> <tr> <td>0 Reactivity</td> </tr> <tr> <td>E Protective Equipment</td> </tr> </table>		HMIS	0 Health	0 Flammability	0 Reactivity	E Protective Equipment
HMIS	0 Health									
	0 Flammability									
	0 Reactivity									
	E Protective Equipment									
DATE OF PREPARATION		July 21, 2025								
REVISION		Update to OSHA Hazardous Communication Standard 2024								

Disclaimer: As of the date of the preparation of this document, the foregoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state laws. No warranty, representation or guaranty of any kind, express or implied, is hereby provided or intended with respect to the completeness of the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by the purchase, resale, use or exposure to our product. Customer users of silica must comply with all applicable health and safety laws, regulations and orders, including OSHA Hazardous Communication Standard.