

MATERIAL SAFETY DATA SHEET



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Updated December 28, 2012

OPTISORB ABSORBENT

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: OPTISORB

Product use: Absorbent

Product Advantages: OPTISORB is highly absorbent and nonflammable. It absorbs liquids, including most oils, water, mixtures of soluble oils and water, grease, gas, acids, inks and paints.

Company Identification:

EP Minerals
9785 Gateway Drive
Reno, NV 89521
800-366-7607 (For Product Information)
www.epminerals.com

2. COMPOSITION / INFORMATION ON INGREDIENTS:

<u>Chemical Name</u>	<u>Percent</u>	<u>CAS Number</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Diatomaceous Earth	>99%	61790-53-2	Not Listed	Not Listed
Crystalline Silica (Quartz)	<1%	14808-60-7	0.1 mg/m ³	5 mg/m ³ /%SiO ₂ +2
Crystalline Silica (Cristobalite)	<1%	14464-46-1	0.05 mg/m ³	5 mg/m ³ /%SiO ₂ +2

Note: This product contains decomposed organic matter. The crystalline silica (quartz) content naturally varies depending on the composition of the soil. These materials are mined from the earth. Trace amounts of naturally occurring elements might be detected during chemical analysis of these materials.

California Prop 65: This product does contain ingredients, which are known to the state of California to cause cancer, birth defects, or other reproductive harm. Crystalline Silica (Quartz) CAS# 14808-60-7 and Crystalline Silica (Cristobalite) CAS# 14464-46-1

HAZARDS DISCLOSURE: This product contains known hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200. As defined under Sara 311 and 312, this product contains known hazardous materials.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Warning! Product dust may cause eye, skin and respiratory irritation. This product contains crystalline silica, which is known to cause cancer, birth defects, or other reproductive harm to humans when exposed to levels above permissible levels.

NFPA Rating: Health - 1, Flammability - 0, Reactivity - 0
NFPA Definitions: (0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme).

Potential Health Effects:

Inhalation: This product may represent an inhalation hazard with creation of respirable dust.

Ingestion: Small quantities this product does not represent an ingestion hazard. Large quantities can cause intestinal distress.

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Skin Contact: Dust maybe irritating to skin, abrasions and dry skin.

Eye Contact: Dust may cause irritation or inflammation.

Chronic Exposure: Risk of injury depends on duration and level of exposure. Prolonged or repeated inhalation of respirable crystalline silica at or above allowable occupational exposure limits may lead to the development of silicosis.

Aggravation of Pre-existing Conditions: Pre-existing skin and respiratory problems.

Carcinogenicity: Crystalline Silica is listed by the NTP, IARC, or regulated by OSHA as a carcinogen.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air if exposed to large amounts of dust. Seek medical attention for discomfort or if coughing or other symptoms do not subside.

Ingestion: Do not induce vomiting. Seek medical attention or contact poison control center immediately.

Skin Contact: Wash thoroughly with soap and water. Seek medical attention for rash or irritation.

Eye Contact: Immediately flush eyes with large amounts of water for at least 15 minutes. Seek medical attention if irritation or blurred vision occurs.

5. FIRE FIGHTING MEASURES

Flash Point (PMCC): Not Flammable

Auto-ignition temperature: Not Applicable

Flammable limits in air % by volume:

LEL: Not Applicable

UEL: Not Applicable

Explosion: N/A

Fire Extinguishing Media: Use any means suitable for extinguishing surrounding fire.

Special Fire Fighting Procedures: In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

If uncontaminated, product can be reused. Avoid actions that cause dusts to become airborne. Avoid inhalation of dust. Do not wash product down sewage and drainage systems or into bodies of water.

7. HANDLING AND STORAGE

Storage Temperature (min/max): NA

Shelf Life: N/A

HANDLING (PERSONNEL): Handle in accordance with good hygiene and safety procedures.

STORAGE PRECAUTIONS: Store product separately from feed, food, pesticides and fertilizers so that cross contamination does not occur. Heat may be generated from a stockpile of product due to natural decomposition of organic materials.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Airborne Exposure Limits:

Airborne Exposure Limits Diatomaceous Earth Dust

	OSHA PEL	ACGIH TLV
Respirable Fraction	3 mg/m ³	5 mg/m ³
Total Dust	15 mg/m ³	10 mg/m ³

Airborne Exposure Limits Crystalline Silica (Quartz) Dust

	OSHA PEL	ACGIH TLV
Respirable Fraction	5 mg/m ³ / %SiO ₂ +2	0.1 mg/m ³

Airborne Exposure Limits: Crystalline Silica (Cristobalite) Dust

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Respirable Fraction OSHA PEL 5 mg/m³/%SiO₂+2 ACGIH TLV 0.05 mg/m³
Ventilation System: Always work in a well ventilated area.
Personal Respirators (NIOSH Approved): None required if dust is below permissible exposure levels.
Skin Protection: Observe good industrial hygiene practices.
Eye Protection: Always wear safety glasses when working with this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

FORM: Solid (Granular) **COLOR:** Tan to white
ODOR: Odorless **SPECIFIC GRAVITY:** 2.22
SOLUBILITY IN WATER: <2.0% **MELTING/FREEZING POINT:** N/A
BOILING POINT: N/A **EVAPORATION RATE (BuAc=1):** N/A
VISCOSITY: N/A **AUTOIGNITION TEMPERATURE:** N/A
VAPOR DENSITY (Air=1): N/A **VAPOR PRESSURE (mm Hg):** N/A
VOLATILE ORGANIC COMPOUNDS (VOC #/gal): N/A

10. STABILITY AND REACTIVITY

Stability: Stable under ordinary conditions of use and storage.
Hazardous Decomposition Products: None
Hazardous Polymerization: Will not occur.
Incompatibilities: Hydrofluoric acid may generate heat upon mixing with this product.
Conditions to Avoid: Incompatible materials.

11. TOXICOLOGICAL INFORMATION

Toxicity Data:

This product contains sand, clay, and decomposed organic matter. The crystalline silica content naturally varies.

Cancer Lists

Ingredient

Crystalline Silica (Quartz)
Crystalline Silica (Cristobalite)

	Known	Anticipated	IARC Category
	YES	YES	Group 1
	YES	YES	Group 1

12. ECOLOGICAL INFORMATION

Environmental Fate: No Data Available

Environmental Toxicity: No Data Available

13. DISPOSAL CONSIDERATIONS

Dispose of all materials in accordance with federal, state and local requirements.

14. TRANSPORTATION INFORMATION

Domestic (Land, D.O.T.) International (Water, I.M.O. & Air, I.C.A.O.)

SHIPPING NAME: Non-Regulated Material
PRODUCT LABEL: NA **UN NUMBER:** N/A

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15. REGULATORY INFORMATION

Federal, State & International Regulations

Ingredient	<u>SARA 302</u>		<u>List</u>	<u>-SARA 313- Chemical Catalog</u>	<u>CERCLA</u>	<u>RCRA 261.33</u>	<u>TSCA 8(d)</u>
	<u>RQ</u>	<u>TPQ</u>					
Diatomaceous Earth	NO	NO	NO	NO	NO	NO	NO
Crystalline Silica (Quartz)	NO	NO	NO	NO	NO	NO	NO
Crystalline Silica (Cristobalite)	NO	NO	NO	NO	NO	NO	NO

Chemical Weapons Convention: No **TSCA 12(b):** No **CDTA:** No

SARA 311/312: Acute: YES; Chronic: YES; Fire: NO; Pressure: NO; Reactivity: NO (Mixture / Liquid)

California Prop 65:

WARNING! This product does contain ingredients, which are known to the state of California to cause cancer, birth defects, or other reproductive harm. Crystalline Silica (Quartz) CAS# 14808-60-7 and Crystalline Silica (Cristobalite) CAS# 14464-46-1

Canada:

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

Soil may be subject to WHIMS depending on the intended use and workers exposure. Product containing crystalline Silica is classified as D2A and is subject to WHIMS requirements.

This material or all of its components are listed on the Inventory of Existing Chemical Substances under the Toxic Substance Control Act (TSCA). This material or all of its components are listed on the Canadian Domestic Substances List (DSL). This material or all of its components are listed (or considered as having been notified) on the European Inventory of Existing Chemical Substances (EINECS). Other inventory lists: ENCS (Japan), Korea, Australia, China (Draft), PICCS (Philippines), Japan (ENCS).

16. OTHER INFORMATION

Prepared By: Paul Eigbrett; MSDS Authoring PLUS
Supersedes Date: December 15, 2009

Approval Date: October 06, 2010

This Material Safety Data Sheet (MSDS) has been reviewed to fully comply with the guidance contained in the ANSI MSDS standard (ANSI Z400.1-2004).

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