

Vital Earth's®

Powdered Glacial Rock

(Ultra Fine)

Material Safety Data Sheet

I. PRODUCT NAME/TRADE NAME: **Emergency Telephone Number:**

Vital Earth's® Powdered Glacial Rock (Ultra 503-493-2784

Fine)

Information Telephone Number:

Sizes: Sample, 1 lb/0.4536 kg, 4.4 lb/1.9958 kg, 503-493-2784

10 lb/4.5359 kg, 22 lb/9.9790 kg, 44 lb/19.958 Date Prepared:

kg

01/15/08

EPA REGISTRATION #: none

CHEMICAL NAME/COMMON NAME:

Glacial Rock Dust (Ultra Fine)

Is not a controlled product and is not covered

WHIMIS Classification of Product:

under Hazardous Product Act and WHIMIS.

Soil Treatment

Product Use:

II. HAZARDOUS INGREDIENTS

Ingredient	%	CAS #	LD50	LC50
may contain up to				
Crystalline Silica (Quartz)	55	140808-60-7	N/A	N/A

Ingredient	OSHA	ACGIH	Other
Fine Sand (as Crystalline silica, Quartz)	0.1 mg/m ³	.01 mg/m ³	(BC-WCB)

The proportion of the silica that is in the respirable size range (<10 nm particle size) varies, but is always less than 0.005 percent of the total sand by weight. NIOSH recommends a Permissible Exposure Limit (PEL) of 0.1 mg/m³ for respirable free silica

III. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:	4046°F, 2230°C	Specific Gravity (H ₂ O=1):	2.65
Vapor Pressure (mmHg):	N/A	Melting Point:	>1832°F, >1,000°C
Vapor Density (Air = 1):	N/A	Freezing Point:	2930°F, 1610°C
Solubility in Water:	<1%	Evaporation Rate (Butyl Acetate + 1):	N/A
Appearance and Odor: Brown to grey powder, no odor			
pH:	6-7		

IV. FIRE AND EXPLOSION HAZARD DATA

Flash point (Method Used):	N/A	Flammable Limits:	N/A
Extinguishing Media:	Water, CO ₂ , dry chemical foam	LEL:	N/A
		UEL:	N/A

Special Fire Fighting

Procedures: Treat as class A. Fight fire upwind. Wear positive pressure self-contained breathing apparatus and full protective equipment. Do not breathe smoke or spray mist. Avoid fallout and runoff. Dike to prevent entering drains, sewers, or water courses. Evacuate people downwind from fire.

Unusual Fire and

Explosion Hazards: Avoid production of an extremely dusty air space in areas of local burning or electrical sparking

V. REACTIVITY DATA

Chemical Stability: Stable

Incompatibility (Products to Avoid):	Strong oxidizing agents
Hazardous Decomposition or Byproducts:	Carbon dioxide, carbon monoxide
Hazardous Polymerization:	Will Not Occur
Condition to Avoid:	Exposure to acid
Reactivity, and under what conditions:	Reacts with inorganic acids, giving carbon dioxide gas. Reacts with water forming polymerized silicates and calcium hydroxide.

VI. TOXICOLOGICAL PROPERTIES/HEALTH HAZARD DATA

Route(s) of Entry

Skin:	Avoid Open Wound, No Absorption
Ingestion:	Do not eat
Inhalation:	Avoid
Eye Contact:	Avoid
Health Hazard (Acute of Chronic):	N/A

Carcinogenicity:	IARC monographs	NTP
	OSHA	
	YES	YES
	YES	

Signs and Symptoms of Exposure:

Possible stomach disorders if taken orally,
possible lung injury if breathed repeatedly.

Effects of Chronic exposure to product:

Excessive inhalation of crystalline silica dust may result in respiratory disease, including silicosis, lung cancer, pneumoconiosis and pulmonary fibrosis. The International Agency for Research on Cancer (IARC) has evaluated in their Monograph Volume 68 (1997) that crystalline silica, quartz is a human carcinogen.

Irritancy of product:

Individuals with pulmonary and/or respiratory disease, including, but not limited to, asthma and bronchitis, or subject to eye irritation, should be precluded from exposure.

Sensitization to Product:	N/A
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Teratogenicity:	None
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Reproductive Toxicity:	None
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Mutagenicity:	None
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Synergistic Products:	None
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VII. PRECAUTION FOR SAFE HANDLING AND USE

Personal Protective Equipment

Respiratory:	When dust is present, use a NIOSH/MSHA approved half- or a full-face respirator with a High Efficiency Particle Aerosol (HEPA) cartridge
Skin:	Use gloves impervious to moisture. The use of a barrier cream is recommended.
Eyes:	Use appropriate eye protection e.g.: goggles, to minimize contact with dust. Full protective hood is recommended for sandblasting.
Other:	Wear sturdy work clothing and footwear for the specific application.
Environmental Hazards:	Dike area to prevent entering drains, sewers or water courses.
Engineering controls:	In restricted spaces, use effective ventilation, e.g. Local Air Ventilation. Do not permit excessive accumulation of dust in work areas. Best practice is to clean up with a vacuum equipped with a HEPA filter.

Steps to be taken in case material is released or spilled:

If uncontaminated, collect for reuse or disposal. Use a clean up system which does not create dust, e.g. a vacuum equipped with a HEPA filter. If contaminated or not required for reuse, dispose in approved landfill in accordance with local regulations.

Waste Disposal Method:

If uncontaminated, dispose as a non-metallic mineral. If contaminated, use appropriate method for containment with applicable local regulation(s).

Precaution to be taken in handling and storing:

Product should be kept in a dry place. Avoid creation of respirable dust if possible. Protect workers as above. Use effective ventilation and dust collection. Avoid eye and skin contact with wet product during use.

Special shipping information:

Protect from moisture.

VIII. CONTROL/FIRST AID MEASURES/HEALTH PRECAUTION DATA

Respirator Protections:

Use only NIOSH/MSHA - approved respiratory protection for nuisance particles up to 10 times the PEL/TLV. Positive pressure self-contained breathing apparatus should be used for confined

space entry and high exposures above the nuisance particulate PEL/TLV.

Ventilation: Local exhaust/general ventilation to control nuisance dust.

Protective/Work Gloves: Rubber, latex, vinyl, or other impervious gloves recommended

Eye Protection: Safety Goggles or glasses with side shields and brow protection Recommended.

Other Protective Clothing or Equipment: Not required

Work / Hygienic Practices: Wash to remove dust after use

Eyes: Flush with tempered water for at least 20 minutes. Obtain medical attention

Skin: Wash with soap and water. For caustic burns to skin consult a doctor.

Ingestion: Drink large amounts of water. Do not induce vomiting. Seek immediate medical attention.

Gross inhalation of dust: Remove to fresh air. Give oxygen with artificial respiration if required.

IX. SPECIAL PRECAUTIONS

Keep out of reach of children. Read and follow all label instructions.

X. PREPARATION DATE OF MSDS

Prepared by: Conscious Earthworks, LLC

Phone: 503-493-2784

Date: 01/15/08

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