

# Vital Earth's®

## All Purpose Guano Mix

### 3-2-2

#### Material Safety Data Sheet

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**I. PRODUCT NAME/TRADE NAME:**

Vital Earth's® All Purpose Guano Mix

3-2-2

Sizes: Sample, 4.4 lb/1.9958 kg,

22 lb/9.9790 kg, 44 lb/19.958 kg

EPA REGISTRATION #: None

**CHEMICAL NAME/COMMON NAME:**

Seabird Guano/Bat Guano

**WHIMIS Classification of Product:**

Product use:

**Emergency Telephone Number:**

503-493-2784

**Information Telephone Number:**

503-493-2784

Date Prepared: 08/10/12

Is not a controlled product and is not covered

Under Hazardous Product Act and WHIMIS.

Soil Treatment/Fertilizer (Natural)

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**II. HAZARDOUS INGREDIENTS**

Ingredient	%	CAS #	LD50	LC50	OSHA PEL	OTHER
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Crystalline Silica (Quartz) / fine sand. May contain up to:

	55	140808-60-7	N/A	N/A	0.1 mg/m <sup>3</sup>	(BC-WCB)
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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/m<sup>3</sup> for respirable free silica.

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### III. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:	4046 F, 2230 C	Specific Gravity (H <sub>2</sub> O = 1):	2.65
Vapor Pressure (mmHg):	NA	Melting Point:	>1832 F, >1000 C
Vapor Density (Air = 1):	Variable	Freezing Point:	2930 F, 1610 C
Evaporation Rate (Butyl Acetate + 1):	NA		
% Volatiles by vol.:	NE	Density:	Variable
Solubility in Water:	<1%		
Appearance and			
Odor:	Beige/Brown/Grey colored dry material, slight guano odor		
Flash Point/Method:	NA		
pH:	6-7		

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### IV. FIRE AND EXPLOSION HAZARD DATA

Flash point	Flammable Limits:	This material is slightly
(Method Used):	NA	combustible due to

Extinguishing Media: Water, Carbon Dioxide,  
Dry Chemical Foam

residual protein. Direct  
flame results in short  
lived sustained flame.  
Dust explosion  
conditions unknown.

Hazardous Combustion

Products: Dioxides from fire

Use water to extinguish.

Sensitivity to

LEL: NA

Mechanical Impact: NA

UEL: NA

Sensitivity to Static

Discharge: NA

Conditions of Flammability: Will burn in a fire

Auto Ignition (C): NA

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.

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## V. REACTIVITY DATA

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

polymerized silicates and calcium hydroxide.

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## VI. TOXICOLOGICAL PROPERTIES/HEALTH HAZARD DATA

Route(s) of Entry

Skin:	Wear proper personal protective equipment to reduce skin exposure. Avoid open wound. No absorption.
Ingestion:	Do not ingest. Wash hands and face thoroughly before eating, drinking or smoking.
Inhalation:	Wear proper respiratory protection for the exposures encountered.
Eye Contact:	Can cause eye irritation. Wear proper eye protection to reduce exposure. If contact occurs, flush eyes with water for a minimum of 15 minutes.
Health Hazard (Acute or Chronic):	NA
Carcinogenicity:	IARC monographs    NTP    OSHA None Known    None Known    None Known
Signs and Symptoms of Exposure:	NA

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:

NA

Teratogenicity:

None

Reproductive Toxicity:

None

Mutagenicity:

None

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 victim to fresh air and administer CPR/give oxygen with artificial respiration if necessary.

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## **IX. SPECIAL PRECAUTIONS**

Keep out of reach of children. Do not wash storm or sanitary down sewer system. Read and follow all label instructions.

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## **X. REGULATORY DATA**

SARA HAZARDOUS CLASS: Acute

SARA 313: NO

SARA 302: NO

TPQ:

CERCLA: NO

RQ:

RCRA: NO

NFPA HAZARD RATING:

Health: [1]

Fire: [2]

Reactivity: [0]

Special: [ ]

NFPA HAZARD RATING SCALE:

0 = Minimal

3 = Serious

1 = Slight

4 = Severe

2 = Moderate

HMIS CODES:

Health: [1]

Fire: [2]

HMIS HAZARD RATING SCALE:

0 = Minimal

3 = Serious

1 = Slight

4 = Severe

Reactivity: [0]

2 = Moderate

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## **XI. PREPARATION DATE OF MSDS**

Prepared by:

Conscious Earthworks, LLC

Phone: 503-493-2784

Date: 08/10/12

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