

Vital Earth's®

Coco Lite

(Coconut Pith with Mycorrhizal, Perlite, Dacite)

Material Safety Data Sheet

I. PRODUCT NAME/TRADE NAME:

Vital Earth's® Coco Lite

(Coconut Pith with Mycorrhizal, Perlite, Dacite)

Sizes: 2.0 cu ft/56.6 liters

2-yard tote/1550 liters

EPA REGISTRATION #: None

CHEMICAL NAME/COMMON NAME:

Coconut Husk/Coco Coir Peat Dust

With Mycorrhizal, Perlite, Dacite

WHIMIS Classification of Product:

Product use:

Emergency Telephone Number:

503-493-2784

Information Telephone Number:

503-493-2784

Date Prepared: 01/01/12

Is not a controlled product and is not covered under Hazardous Product Act and WHMIS.

Medium to growing plants.

IIa. HAZARDOUS INGREDIENTS (Coconut Pith)

Ingredient	%	CAS #	LD50	LC50	OSHA PEL	ACGIH TLV
Nuisance Dust	NA	NA	NA	NA	Total: 15 mg/m ³ Respirable: 5 mg/m ³	Total: 10 mg/m ³ Respirable: 3 mg/m ³

This product is not considered to be hazardous in accordance with the OSHA Hazard Communication Standard 29 CFR 1910.1200, Health Hazard. The product is classified by ACGIH as a "Nuisance Dust" or "Particles Not Otherwise Classified" (PNOC). See product label for ingredients about product specification information.

IIb. HAZARDOUS INGREDIENTS (Mycorrhizal)

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	0.1 mg/m ³	.01 mg/m ³	(BC-WCB)

(as Crystalline Silica, Quartz)

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 degrees F	Specific Gravity (H ₂ O = 1)	2.65
	2230 degrees C		
Vapor Pressure (mmHg):	N/A	Melting Point:	>1832 degrees F >1000 degrees C

Vapor Density (Air = 1): N/A Freezing Point: 2930 degrees F
1610 degrees C

Solubility in Water: <1% Evaporation Rate
Carrier dacite soluble (Butyl Acetate + 1): N/A
and mycorrhizal insoluble

Appearance and

Odor: Coco peat dust.
Light brown micronized.
Slightly earthen/natural
odor.

pH: 6-7

IV. FIRE AND EXPLOSION HAZARD DATA

Flash point Flammable Limits: NA

(Method Used): NA

Extinguishing Media: Carbon dioxide,
Dry chemical foam,
Halon extinguisher.

Hazardous Combustion

Products: NA

Sensitivity to

LEL: NA

Mechanical Impact: NA

UEL: NA

Sensitivity to Static

Discharge: NA

Conditions of Flammability: NA

Auto Ignition (degrees Celsius): 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.

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: Wear proper personal protective equipment

to reduce skin exposure.

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
Yes	Yes	Yes

Signs and Symptoms of Exposure:

Excess inhalation of airborne dusts may result in shortness of breath and reduced pulmonary function. Infection, irritation and/or allergic reaction may result if product contacts eyes, or open wounds. See above under “Health Hazards, Chronic.”

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:

May result in infection if product comes in direct contact with lungs, eyes or open wounds. 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

Teratogenicity:

None

Reproductive Toxicity:

None

Mutagenicity:

None

Synergistic Products:

None

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:

Wear proper personal protective equipment to reduce skin exposure.

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. Avoid
stirring up excessive dust.

Wet down spilled material lightly before
sweeping to
prevent producing airborne dusts. Then sweep
up and collect excess material with adequate
ventilation, and use the product as directed.

Waste Disposal Method:

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

Dilute excess or spilled product according to
usage instructions (0.25 to 1.0 lb per 100 gal.),

and apply to trees, grass, or ornamental plants
as
originally intended.

Precaution to be taken in handling and storing:

Product should be kept in a dry place. Avoid
creation of respirable dust if possible. Avoid
Ignition of dust. 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
if necessary.

IX. SPECIAL PRECAUTIONS

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

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: [0]

Reactivity: [0]

Special: []

NFPA HAZARD RATING SCALE:

0 = Minimal 3 = Serious

1 = Slight 4 = Severe

2 = Moderate

HMIS CODES:

Health: [1]

Fire: [0]

Reactivity: [0]

HMIS HAZARD RATING SCALE:

0 = Minimal 3 = Serious

1 = Slight 4 = Severe

2 = Moderate

XI. PREPARATION DATE OF MSDS

Prepared by:

Conscious Earthworks, LLC

Phone:

503-493-2784

Date:

01/01/12

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