

# Vital Earth's® MANNA Mix

## Material Safety Data Sheet

---

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

Vital Earth's® MANNA Mix

Sizes: 1.5 cu. ft./42.5 L,

2 yd. tote/ 1550 L, Bulk 1 yd.+ /764 L+

EPA REGISTRATION #: None

**CHEMICAL NAME/COMMON NAME:**

Manna Mix

**WHIMIS Classification of Product:**

Product Use:

**Emergency Telephone Number:**

541-973-2505

**Information Telephone Number:**

541-973-2505

Date Prepared:

10/01/09 Rev. 02/03/14

Not a controlled product and is not covered  
under Hazardous Product Act and WHIMIS.

Soil Treatment, Soil Builder, Soil Media,  
Growing Media

---

## II. HAZARDOUS INGREDIENTS

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

- This product is not considered to be a 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 specific information.

**Contains:** Natural Sphagnum Peat, natural aggregates such as powdered glacial rock (ultra fine)(CAS#140808-60-7), Perlite (CAS #93763-70-3), Coir Peat, organic compost, organic earthworm castings, worm casting bedding, pumice, bat guano, seabird guano, and dolomite.

---

## III. PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: NE	Specific Gravity (H <sub>2</sub> O=1): NA
Vapor Pressure (mmHg): NA	Melting Point: NA
Vapor Density (Air = 1): NE	Freezing Point: NA
% Volatiles by vol.: NE	Evaporation Rate (Butyl Acetate + 1): NA
Solubility in Water: Not soluble	Density: 34-40 lb/cu. ft. or 612-720 g/L
Appearance and Odor:	Flash Point/Method: NA pH: 6.5-6.9

Brown and black organic  
material with white  
stones, earthy odor

---

#### IV. FIRE AND EXPLOSION HAZARD DATA

Flash point  
(Method Used): NA

Conditions of  
Flammability: NA

Extinguishing Media:  
Water, fog, or spray

Special Fire Fighting  
Procedures: None.

Hazardous Combustion  
Products: NA

Caution, burning  
may continue inside  
bags or piles after  
surface fire is out.

Sensitivity to  
Mechanical Impact: NA

Break bags or separate  
pile to assure that the  
fire is extinguished. The  
thermal decomposition  
products are those  
commonly observed  
with natural products  
such as wood or other  
vegetative matter.

Sensitivity to Static  
Discharge: NA

Auto Ignition (°C): NA

Flammable Limits: NA

LEL: NA

Unusual Fire and Explosion Hazards: NA

UEL: NA

---

## **V. REACTIVITY DATA**

Chemical Stability:	Stable
Incompatibility (Products to Avoid):	NA
Hazardous Decomposition or Byproducts:	High temperatures or fire may produce irritating gases and vapors.
Hazardous Polymerization:	NA
Condition to Avoid:	See label. Keep away from heat, sparks and open flames.
Reactivity, and under what conditions:	NA

---

## **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): Nuisance dust, may contain sphagnum peat, coir peat, Perlite (CAS# 9763-70-3).

Carcinogenicity:	IARC monographs	NTP	OSHA
	None Known	None Known	None Known

Signs and Symptoms of Exposure: NA

Irritancy of Product: NA

Sensitization to Product: NA

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.
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 release 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:

NA

---

## 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.

SUPPLEMENT INFORMATION:

THE BACTERIA AND MYCORRHIZAE CONTAINED IN THIS PRODUCT ARE STRAINS OF TYPICALLY HARMLESS SOIL AND WATER-SOLUBLE BACTERIA AND MYCORRHIZAE, AND DO NOT CAUSE INFECTIONS UNDER NORMAL CIRCUMSTANCES. PROPER PRECAUTIONS ARE ADVISED TO PREVENT INFECTION OF OPEN WOUNDS, INHALATION OF EXCESSIVE AMOUNTS OF DUST AND EYE IRRITATION. THE PROPER HYGIENE PRACTICES NECESSARY TO PREVENT HEALTH HAZARDS FROM ANY NATURALLY OCCURRING SUBSTANCE SUCH AS SOIL ETC. SHOULD BE OBSERVED.

---

## 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 HAZARD 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: 541-973-2505

Date: 10/01/09 Rev. 02/03/14

---

All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources. While the information is believed to be accurate as of the effective date given above, CONSCIOUS EARTHWORKS, LLC makes no representations as to its accuracy or sufficiency. Conditions of use are beyond CONSCIOUS EARTHWORKS' LLC control. Therefore, users are responsible for determining whether under their own operating conditions the product is suitable for their particular use. Users assume all risks of use, handling, and disposal of the product. The publication, use of, or reliance upon information contained herein does not relate to the use of this product in combination with any other material or in any other process.

Furthermore, CONSCIOUS EARTHWORKS' LLC products are sold subject to the following LIMITATION OF LIABILITY AND DISCLAIMER

LIMITATION OF LIABILITY AND DISCLAIMER:

NO WARRANTY OR REPRESENTATION IS MADE, EXPRESS OR IMPLIED, CONCERNING THE RESULTS TO BE OBTAINED FROM THE USE OF THIS PRODUCT IF NOT USED IN ACCORDANCE WITH DIRECTIONS AND/OR GENERALLY ACCEPTED APPLICATION PROCEDURES AND PRECAUTIONS. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF LIABILITY OF CONSCIOUS EARTHWORKS, LLC FOR ANY LOSSES, DAMAGES OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE REFUND OF THE PURCHASE PRICE. **CONSCIOUS EARTHWORKS, LLC, EXPRESSLY EXCLUDES AND DISCLAIMS ANY WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE OR USE.**