

# MATERIAL SAFETY DATA SHEET

Last Revision: January 5, 2000

Emergency Phone #: 1-800-342-6173

## PRODUCT IDENTIFICATION

NAME:	<b>ROOTS® Transplant 1-Step (2-2-2)</b>		
CHEMICAL DESCRIPTION:	Mixture of humic, seaweed and yucca extracts; vitamins, horticultural gel, poultry manure and beneficial spores.		
HAZARDOUS COMPONENT(S):	<u>CAS #</u>	<u>APPROXIMATE %</u>	
Vitamin B1 (Thiamine)	[532-43-4]	<1	
Vitamin C (Ascorbic Acid)	[50-81-7]	3	
Vitamin E (a-Tocopherol)	[7695-91-2]	<1	
NFPA/HMIS RATING (0-4): (0 = INSIGNIFICANT; 4 = EXTREME)	HEALTH <b>1</b>	FIRE <b>0</b>	REACTIVITY <b>0</b>
	SPECIFIC HAZARD	<b>NONE</b>	

## PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT:	Not Applicable
VAPOR PRESSURE:	Not Applicable
VAPOR DENSITY:	Not Applicable
EVAPORATION RATE:	Not Applicable
MELTING POINT:	Decomposes > 400 F
SPECIFIC GRAVITY/DENSITY (H2O=1):	0.85 (53 lb/ft3)
pH:	10% Dispersion in Water – 5.0 to 5.4
SOLUBILITY IN WATER:	Slightly soluble – forms gels
APPEARANCE:	Dark brown granular
ODOR:	Slight ammonia

## FIRE AND EXPLOSION INFORMATION

FLASH POINT:	Not Applicable
FLAMMABLE LIMITS:	Carbonizes; smolders when directly heated in flame.
EXTINGUISHING MEDIA:	Water; CO2
SPECIAL FIRE FIGHTING PROCEDURES:	No special methods required

**SPECIAL FIRE AND EXPLOSION HAZARDS:** Chars with crackling sound when directly heated. Dust explosion is possible when product is finely dispersed in air.

## **REACTIVITY DATA**

**STABILITY:** Stable at ordinary temperatures.

**CONDITIONS TO AVOID:** Contact with strong oxidizers.

**INCOMPATIBILITY:** Strong alkalis

**HAZARDOUS DECOMPOSITION:** Ammonia, CO<sub>x</sub>, SO<sub>x</sub> and NO<sub>x</sub> may be formed if product is strongly heated or oxidized.

**HAZARDOUS POLYMERIZATION:** Will not occur.

## **HEALTH EFFECTS/FIRST AID INFORMATION**

**ROUTES OF ENTRY:** EYES ☒ SKIN ☒ INGESTION ☒ INHALATION ☒

**HEALTH HAZARDS:**

- Eyes: Will irritate on contact – wash out quickly
- Skin: Brief contact is non-hazardous. Repeated or prolonged contact may stain and dehydrate skin.
- Ingestion: Not toxic, but in large amounts can cause upper G.I. Tract Disturbances and concern of vitamin overdose.
- Inhalation: Dust can cause irritation of mucus membrane, coughing, sneezing and difficulty with breathing. Persons allergic to spores may be sensitive.

**SIGNS/SYMPTOMS OF EXPOSURE:** Eye irritation and/or sneezing, coughing and difficulty breathing.

**CARCINOGENICITY:** Ingredients not listed as carcinogenic in NTP or IARC listings.  
Not OSHA regulated.

### **EMERGENCY AND FIRST AID PROCEDURES:**

**Eyes:** Flush immediately with water for 15 minutes, lift lids. See physician if irritation persists.

**Skin:** Wash gently with mild soap/detergent and flowing water. Wash contaminated clothing.

**Ingestion:** For small amounts drink plenty of water. More than a mouthful should be purged by vomiting, but only if victim is conscious. Get medical help.

**Inhalation:** Help victim to fresh air. If breathing difficult, administer oxygen. Consult physician.

## **PRECAUTIONS FOR SAFE HANDLING AND USE**

**RESPIRATORY PROTECTION:** Not normally needed. If dusting occurs use approved respirator to eliminate exposure.

**VENTILATION:** Exhaust fan recommended to control any dusting.

**PROTECTIVE GLOVES/CLOTHING:** Rubber or plastic recommended if repeated or prolonged contact expected.

**EYE PROTECTION:** Chemical splash goggles recommended where dusting is expected. Safety glasses suffice otherwise.

**WORK PRACTICES:** Use good housekeeping practices. Keep containers tightly closed.

**SPILLS:** Avoid creating dust when cleaning up. Scoop, shovel or sweep to labeled containers for recycling/salvage if not contaminated by other material. DO NOT flush to drain – may

clog sewer lines.

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WASTE DISPOSAL METHOD: Package material for removal to approved landfill.

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PRECAUTIONS IN STORING AND HANDLING: Avoid storage in hot or moist areas.