

MATERIAL SAFETY DATA SHEET

Last Revision: January 5, 2000

Emergency Phone #: 1-800-342-6173

PRODUCT IDENTIFICATION

NAME: ironROOTS® with EctoMycorrhiza

CHEMICAL DESCRIPTION: Powdered mixture of selected humic & seaweed extracts, iron phosphate-citrate, vitamins and beneficial spores.

HAZARDOUS COMPONENT(S):	CAS #	APPROXIMATE %
Vitamin B1 (Thiamine)	[532-43-4]	1
Vitamin C (Ascorbic Acid)	[50-81-7]	12
Vitamin E (a-Tocopherol)	[7695-91-2]	<1

NFPA/HMIS RATING (0-4): HEALTH 1 FIRE 0 REACTIVITY 0
(0 = INSIGNIFICANT; 4 = EXTREME) SPECIFIC HAZARD NONE

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):	0.78 (49 lb/ft3)
pH:	10% Solution – 5.7 to 5.9
SOLUBILITY IN WATER:	Soluble up to 50% (50g / 100g water)
APPEARANCE:	Dark grey to black powder
ODOR:	Slight

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: CO_x, SO_x, NO_x and P₂O₅ may be formed if 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. Reseal partially used pouches.

SPILLS: Avoid creating dust when cleaning up. Scoop, shovel or sweep to labeled containers for recycling/salvage if not contaminated by other material.

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

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