



# EcoFungi



## ROOT INOCULANT

### NONPLANT FOOD INGREDIENT

#### Guaranteed by ECOMICROBIALS INC.

7003 N. Waterway Dr. #214, Miami, FL 33155

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#### Composition

*Glomus aggregatum*, *G. intraradices*, *G. etunicatum*, *G. mosseae* at 25 spores of each species per gram. Spores of *Bacillus subtilis*, *B. licheniformis*, *B. pumilus*, *B. megaterium*, *B. amyloliquefaciens*, *B. coagulans*, *B. azotoformans*, *B. firmus*, *Paenibacillus polymyxa*, *P. durum* at 24 million CFU of each strain per gram, *Pseudomonas fluorescens*, *P. aureofaciens*, *P. putida*, *Streptomyces lydicus*, *S. griseus*, *S. coelicolor*, *Trichoderma harzianum*, *T. reesei*, *T. hamatum* at 4.8 million CFU of each strain per gram.

#### Application

Treat seeds for an acre with 0.45 to 0.9 lbs. Add 0.5 to 1 lb per cubic yard of potting soil. Dip roots of transplants in 0.05 to 0.2 gr/plant. For established plants drench with 1 to 2 gr per plant, 3 to 4 gr per bush and 4 to 10 gr per tree.

#### Storage

Avoid moisture and direct sun exposure.

**Net Weight: 4oz (133 grams)**

**Manufacture Date:**

**Expiration Date:**



EcoMicrobials™



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## Composition

Glomus aggregatum.....	25spores/g	G.intraradices.....	25 spores/g
G. etunicatum.....	25spores/g	G. mosseae.....	25 spores/g
Bacillus subtilis.....	24 million CFU/g	B. licheniformis.....	24 million CFU/g
B. pumilus.....	24 million CFU/g	B. megaterium.....	24 million CFU/g
B. amyloliquefaciens.....	24 million CFU/g	B. coagulans.....	24 million CFU/g
B. azotoformans.....	24 million CFU/g	B. firmus.....	24 million CFU/g
Paenibacillus polymyxa.....	24 million CFU/g	P. durum.....	24 million CFU/g
Pseudomonas fluorescens....	4.8 million CFU/g	P. aureofaciens.....	4.8 million CFU/g
P. putida.....	4.8 million CFU/g	Streptomyces lydicus.....	4.8 million CFU/g
S.griseus.....	4.8 million CFU/g	S. coelicolor.....	4.8 million CFU/g
Trichoderma harzianum.....	4.8 million CFU/g	T. reesei.....	4.8 million CFU/g
T. hamatum.....	4.8 million CFU/g		

## How to use

- 1/2 lb to 1lb of EcoFungi can treat 1 acre of seed.
- Add 0.5 to 1 lb per cubic yard of potting soil.
- Dip roots of transplants in 0.05 to 0.2 gr/plant.
- For established plants drench with 1 to 2 gr per plant, 3 to 4 gr per bush and 4 to 10 gr per tree.

## Storage

Avoid moisture and direct sun exposure.

## Available packages

8 oz, 1 lb, 2 lbs, 25 lbs, 200 lbs.



# EcoFungi

## *Mycorrhizae Inoculant*



### Description

Ecofungi is a mycorrhizae inoculant which provides plant root systems with fungi that grow in and out of the roots.

### Key advantages

- Fungi grows around roots intended to help increase the area of soil where the plants gathers its nutrients.
- Most plants need to be treated only once with EcoFungi throughout their growth cycle.
- EcoFungi is a vesicular arbuscular mycorrhizal (VAM) inoculant certified in the USA by the Organic Materials Review Institute (OMRI) and The California Department of Food and Agriculture (CDFA) for use in the production of organic food and fiber.

### Mixing Instructions

- Seeds: Treat the seed with 0.45 to 0.9 lbs per acre (0.5 to 1 kg/ha) for grain crops such as alfalfa, corn and wheat. When treating smooth seeds such as corn, we recommend to dissolve EcoFungi in water before being mixed with the seed.
- Seeds: For the treatment of vegetable seeds and potatoes we recommend a dose rate of 0.9 to 1.8 lbs per acre (1 to 2 kg/ha). For fruit and nut tree seeds we recommend a dose rate of 0.2 to 0.5 gr per tree.
- Transplants: Use 1 to 2 grams under each cutting, 5 to 10 grams for potted transplants, 14 grams (½ oz) per inch of stem caliper planting. Working doses in standard plantations of peppers, strawberries and tomatoes are 1.8 lbs/ acre (2 kg/ha).
- Could also be used for nurseries, established plants, potted plants, turf, and hydroponic applications.

### Warnings

- To avoid retention of EcoFungi the nozzle of the spraying equipment should have orifices bigger than 0.5 mm.
- If an antagonistic fungicide is to be applied we recommend to wait until the mycorrhizae has established association with the plant. Foliar systemic fungicides do not cause problem except for those containing triamifedon or Bayleton.



# SAFETY DATA SHEET



Last revision: 1-2017

## 1. Product and Company Identification

Product Name:	EcoFungi
Manufacturer	EcoMicrobials LLC
Information telephone Number	7003 N. Waterway Dr. Unit 214. Miami, FL 33155
Emergency telephone Number	305 298 2036
	305 298 2036

## 2. Hazards Identification

### Effects in health

Skin	May cause slight skin irritation
Eyes	May cause slight irritation
Ingestion	may cause gastrointestinal irritation, nausea, vomiting and diarrhea
Inhalation	May cause irritation of respiratory tract

Potential Environmental Effects No adverse ecological effects

## 3. Composition

Propagules of the endo-mycorrhizae fungi *Glomus aggregatum*, *G. intraradices*, *G. etunicatum* and *G. mosseae* Spores of naturally occurring beneficial microorganisms, not genetically altered of the genus *Bacillus*, *Paenibacillus*, *Geobacillus*, *Pseudomonas*, *Streptomyces* and *Trichoderma*.

## 4. First Aid Measures

Skin	Wash with water and soap. If irritation persists consult a physician.
Eyes	Wash eyes with water. If irritation persists consult a physician.
Ingestion	Do not induce vomit. Consult a physician.
Inhalation	Expose the patient to fresh air. In case of difficulty to breath consult a physician.

## 5. Fire-Fighting Measures

Flammable Properties	Slightly flammable according to HMIS criteria
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Unsuitable Extinguishing Media	None
Hazardous Combustion Products	None
Specific Hazards Arising form the Chemical	May cause allergic respiratory reaction
Protective Equipment and Precautions for Firefighters	Self-contained breathing apparatus and standard turnout apparel

## 6. Accidental Release Measures

Personal Precautions	For personal protection see section 8
Environmental Precautions	Spilled preparation should be removed immediately to avoid formation of dust from dried preparation. Take up by mechanical means preferably by a vacuum cleaner equipped with high efficiency filter. Flush remainder carefully with plenty of water. Avoid splashing with high pressure washing (avoid formation of aerosols). Ensure sufficient ventilation. Wash contaminated clothing.

## 7. Handling and Storage

Handling	Avoid formation of dust and aerosols. Ensure adequate ventilation
Storage	Keep tightly closed in a dry and cool place.
Temperature	Keep in a dry, cool and well ventilated place.
Storage Conditions	In unbroken packaging – dry and protected from the sun. The product has been formulated for optimal stability.
Conditions to avoid	Avoid temperatures above 45°C. Avoid freezing temperatures. Avoid moisture. Avoid strong acids, alkali compounds and oxidizing agents.

## 8. Exposure Controls/ Personal Protection

Occupational Exposure Controls	Ensure adequate ventilation, especially in confined areas. Maintain good conditions of industrial hygiene. Some processes may require enclosures, local exhaust ventilation, or other engineering controls to control airborne levels.
Personal Protective Equipment	In case of insufficient ventilation wear suitable respiratory equipment that meets HEPA/P100 specifications. Eye protection, wear glasses with side-shields. Skin protection, Long sleeved clothing. Hand protection, Protective gloves
Environmental Exposure Controls	Local authorities should be advised if significant spillages cannot be contained.

## 9. Physical and Chemical Properties

Physical State	Dry powder
Odor	Earthy
Boiling Point/Range	No information available
Melting Point/Range	No information available
Flash Point	No information available
Flammability	Slightly flammable
Explosive Properties	No information available
Oxidizing Properties	No information available
Vapor Pressure	No information available
Solubility	Partially Soluble
Specific gravity	0.8
pH	7 while suspended in water at 10% concentration

## 10. Stability and Reactivity

Chemical stability	Stable under recommended storage conditions
Conditions to avoid	Excessive temperatures below freezing or above 45°C.
Materials to avoid	None
Hazardous decomposition products	None
Possibility of hazardous reactions	None

## 11. Toxicological Information

### Acute toxicity

Ingestion, LD50 Rat Oral (mg/kg)	Not determined
Inhalation, LC50 Rat inhalation (mg/L/4hr)	Not determined
Skin, LD50 Rat Dermal (mg/kg)	Not determined
Eye irritation	Not determined

### Chronic Toxicity

Sensitization	According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.
Carcinogenicity	The ingredients are not found in listings of carcinogenic compounds.

## 12. Ecological Information

### Ecotoxicology

This product is not expected to pose an environmental hazard. No toxicity data is available specifically for soil organisms, plants and animals.

Environmental Effects	The data available do not support any environmental hazard.
Persistence/Degradability	The organic components of the product are biodegradable.
Bioaccumulative Potential	Not available
Other adverse effects	No known effect

## 13. Disposal Considerations

Waste Disposal Method	Dispose of contents/container in accordance with local regulations.
Contaminated Packaging	Dispose of wastes in an approved disposal facility.

## 14. Transport Information

Transport Regulations	Not dangerous goods
IMDG; IMO; RID; ADR; ICAO; IATA; DOT	Not regulated

## 15. Regulatory Information

### International Inventories

Complies with TSCA, CHINA, AICS

### USA Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Re-authorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and 40 CFR Part 372.

#### SARA 311/312 Hazardous Categorization

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

### USA, State Regulations

California Proposition 65	This product in its present state does not contain any Proposition 65 chemicals.
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