

EcoFlora

MICROBIAL INOCULANT

NONPLANT FOOD INGREDIENT



Composition

Bacillus subtilis.....80 million CFU/g
 B. megaterium.....80 million CFU/g
 B. pumilus.....80 million CFU/g
 B. azotoformans.....80 million CFU/g
 Paenibacillus polymyxa.....80 million CFU/g
 Pseudomonas fluorescens....16 million CFU/g
 P. putida.....16 million CFU/g
 S. coelicolor.....16 million CFU/g
 Trichoderma harzianum.....16 million CFU/g
 T. hamatum.....16 million CFU/g

B. licheniformis.....80 million CFU/g
 B. amyloliquefaciens.....80 million CFU/g
 B. coagulans.....80 million CFU/g
 B. firmus.....80 million CFU/g
 P. durum.....80 million CFU/g
 P. aureofaciens.....16 million CFU/g
 Streptomyces lydicus.....16 million CFU/g
 S. griseus.....16 million CFU/g
 T. reesei.....16 million CFU/g

How to use

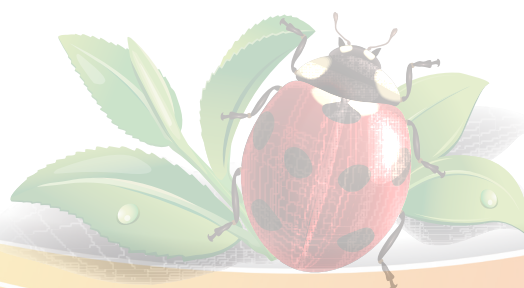
- Growing media: 2 to 4 oz per cubic yard.
- Nursery: 2 to 4 oz per cubic yard every 2 weeks.
- Ornamental & raw crops: 5 to 12 oz per acre per month, or at planting or at 3 leaves stage, pre-flowering and at fruit formation.
- Grains: 7 oz per acre at emergence & florescence.
- Trees: 4 to 6 oz per acre per month.

Storage

Avoid moisture and direct sun exposure.

Available packages

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



EcoMicrobials™

EcoFlora

A Microbial Amendment



Description

EcoFlora is a microbial amendment (bacteria and fungi). Many farmers are using microbial solutions to rejuvenate their soils, revive the surrounding ecosystem, and provide more nutrients for crops. EcoFlora is 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.

Key Advantages

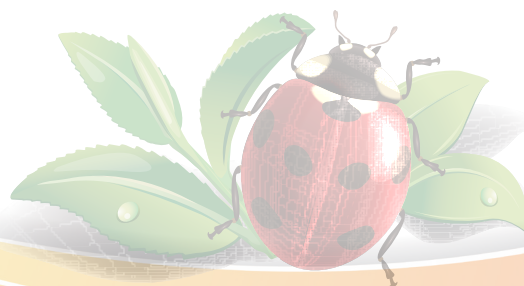
- Years of research to formulate the unique composition of microbe strain: *Bacillus firmus*, *Bacillus amyloliquefaciens*, *Bacillus subtilis*, *Bacillus licheniformis*, *Bacillus megaterium*, *Bacillus pumilus*, *Bacillus azotoformans*, *Bacillus coagulans*, *Paenibacillus polymyxa*, *Paenibacillus durum*, *Pseudomonas aurofaciens*, *Pseudomonas fluorescens*, *Pseudomonas putida*, *Streptomyces coelicolor*, *Streptomyces lydicus*, *Streptomyces griseus*, *Trichoderma harzianum*, *Trichoderma reesei*, *Trichoderma hamatum*.

Mixing Instructions

- Flush irrigation systems and sprayers with plenty of water from any pesticide residue before applying EcoFlora. Avoid applying pesticides one week before and one week after applying EcoFlora.
- Growing Media Amendment: Apply 2 to 4 oz per cubic yard.
- Nursery: Apply 2 to 4 oz of EcoFlora per cubic yard every two weeks.
- Fruit and Nut Trees: Apply 3 to 5 oz per acre per month.
- Grains: Apply 4 to 8 oz per acre at emergence and fluorescence.
- Ornamental, Row Crops: Apply 5 to 12 oz per acre per month, or at planting, 3 leaves stage, pre-flowering and at fruit formation.
- EcoFlora could also be applied to golf courses (0.2-0.45oz/100 yard²), hydroponic systems (1/4 oz/55 gal), and mixed with liquid fertilizer through an irrigation system: 5 ml of AnnGro/gal of liquid fertilizer.

Warnings

- For best results apply foliar applications early in the morning or late in the afternoon.
- Keep product dry in an airtight container. Avoid prolonged exposure to direct sunlight.



EcoMicrobials™



SAFETY DATA SHEET

Last revision: 1-2018



1. Product and Company Identification

Product Name:	EcoFlora
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

<u>Potential Environmental Effects</u>	No adverse ecological effects
--	-------------------------------

3. Composition

Spores of naturally occurring beneficial microorganisms, not genetically altered of the genus *Bacillus*, *Paenibacillus*, *Geobacillus*, *Pseudomonas*, *Streptomyces*, and *Tricoderma*.

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 from 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	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.
---------------------------	--