

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY UNDERTAKING

Trade Name:

Root Honey™ Plus PGPR

Product Use

1-0-1 Bio-Nutrient to encourage nutrient cycling and root development

Manufacturer

Pathway Biologic, LLC
111 E. Tever Street, Plant City, FL 33563-2417 USA
(813) 719-7284

Emergency telephone

(813) 719-7284
Pathway Biologic, LLC, Plant City, FL 33563

2. HAZARDS IDENTIFICATION

Classification: Per OSHA Hazardous Chemical 29 CFR1910.1200, not classified as hazardous
Label Elements-GHS-US Labeling: No labeling applicable
Hazard Statement: Moderately irritating to eyes
GHS: 3002.90.5150

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS #	Percentage
Bacillus subtilis	N/A	<1%
Bacillus licheniformis	N/A	<1%
Bacillus methylotrophicus	N/A	<1%
Bacillus amyloliquefaciens	N/A	<1%
Bacillus laterosporus	N/A	<1%
Fulvic Acid	68514-28-3	5 %
Kelp	68844-77-9	8 %
Oil Seed Extract	N/A	20 %
Maltodextrin	9050-36-6	10 %
Molasses	68476-78-8	10 %
Soluble Silicon	7631-86-9	1 %
Water Based Culture Medium	7732-18-5	43 %

GUARANTEED ANALYSIS	Percentage
Total Nitrogen (N)	1%
Total Phosphorus (P ₂ O ₅)	0%
Total Soluble Potash (K ₂ O)	1%

4. FIRST AID MEASURES

Inhalation: Consult a physician if problems occur
Skin: Wash hands after use. If irritation occurs / persists, consult a physician
Eyes: Flush eyes with cool water and consult a physician
Ingestion: Rinse mouth / consult a physician

5. FIRE FIGHTING MEASURES

Flash Point: Not Flammable
Auto Ignition Temperature: Not applicable

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Flammable Limits:	Not Flammable
Extinguishing Media:	Use appropriate media for underlying cause (product not flammable)
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus
Unusual Fire and Explosion Hazards:	None

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures: Contain spill, absorb liquid with clay or other absorbent material. Sweep up and discard according to protocol below.

7. HANDLING & STORAGE

Handling:	Do not taste or swallow. Avoid contact with eyes.
Storage:	Store in original container tightly closed. Store in a cool, dry place.
Storage Temperatures:	Avoid excessive heat and direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation:	Under normal conditions, none required. If drift occurs, wear breathing apparatus
Gloves:	May be worn by individuals with sensitive skin
Eyes:	Under normal conditions, none required. If potential for drift exists, wear goggles
Clothing:	Wear pants, shirt, shoes and socks
Exposure Limit:	No OSHA TLV

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Color:	Dark brown or black (liquid)
Odor:	Characteristic fermentation odor
Odor threshold:	N/A
pH:	5-6
Melting point/freezing point:	N/A
Initial boiling point/range:	212°F (if liquid)
Flash Point:	N/A
Evaporation rate:	N/A
Flammability (solid/gas):	N/A
Upper/lower flammability:	N/A
Vapor Pressure:	N/A
Vapor density:	N/A
Density:	1.12 ± 0.02 g/mL
Solubility in Water:	Soluble
Partition Coefficient:	N/A
Auto-ignition Temperature:	N/A
Decomposition Temperature:	N/A
Viscosity:	N/A

10. STABILITY & REACTIVITY

Hazardous Decomposition Product:	None
Incompatibility:	Strong acid & alkali, organic solvents and oxidizing agents
Stability:	Stable under normal conditions. Must be kept dry.
Hazardous Polymerization:	None

11. TOXICOLOGICAL INFORMATION

No components of this product are listed as carcinogenic by NTP, IARC, or OSHA



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12. ECOLOGICAL INFORMATION

Environmental Precautions: This product is bio-degradable. Dispose of this product by diluting it with water and apply to soil, plants, turf, etc.

13 DISPOSAL CONSIDERATIONS

Disposal: In accordance with Federal, State and Local bacteria protocol

14. TRANSPORT INFORMATION

Non-hazardous

15. REGULATORY INFORMATION

Not Applicable

16. OTHER RELEVANT INFORMATION

Date of Revision: 2018-11-16

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