



SAFETY DATA SHEET

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

Trade Name:

Root Honey™ 1-0-1

Product Use

Bio-Nutrient to encourage acceleration of microbial growth and activity

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

SAFETY DATA SHEET

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



SAFETY DATA SHEET

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: 2018-01-23

TO THE BEST OF OUR KNOWLEDGE THIS INFORMATION IS TRUE AND ACCURATE. SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS BEYOND OUR CONTROL WE DO NOT ASSUME ANY RESPONSIBILITY FOR THE RESULTS OF ITS USE. THIS INFORMATION IS FURNISHED UPON THE CONDITION THAT THE PERSON RECEIVING THIS PRODUCT SHALL MAKE HIS / HER OWN DETERMINATION OF THE SUITABILITY OF THE MATERIAL FOR THEIR PARTICULAR PURPOSE. THIS INFORMATION IS PROVIDED IN GOOD FAITH BUT WITHOUT EXPRESSED OR IMPLIED WARRANTY. IT IS THE RESPONSIBILITY OF THE CUSTOMER TO TAKE APPROPRIATE PRECAUTIONS.