Material Safety Data Sheet **Holganix Bio-nutritional Tree and Shrub Soil Amendment**

For Emergency call 866 563 2784 during business hours or 610 283-6913 after hours

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Holganix Concentrate for Tree and Shrub Care MSDS revised June 9, 2011

Lawn and garden soil amendment for enhancing tree and shrub growth and health.

Holganix LLC
711 Concord Road, Glen Mills, PA 19342
866 563-2784

2. HAZARDS IDENTIFICATION SUMMARY

No hazardous materials
Skin - Prolonged contact may cause irritation if individual has dermal allergic reaction
Ingestion - If ingested in large quantities may cause irritation or if individual has allergic reaction
Eyes - May cause eye irritation

3. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	Percentage	
Plant based Compost Tea	75.99%	< Complies with OSHA 29 CFR XVII - 1910.1200 section (1) "trade secrets".
Molasses	19.03%	Contains no hazardous components under OSHA definitions.
Brewers Yeast	3.82%	
Endo Mycorrhizae	0.11%	
Excto Mycorrhizae	0.11%	
Yucca	0.12%	
Other	0.82%	

4. FIRST AID MEASURES

If in eyes: - Flush with water. Seek medical attention if symptoms develop or irritation persists.
If on skin: - Wash with soap and water. Seek medical attention if symptoms develop or irritation persists.
If swallowed: - Drink water to dilute. Call Poison control center if ingested in large quantities and symptoms develop.
If inhaled: - Drink water to dilute. Flush nasal cavity with water if irritated.

5. FIRE FIGHTING MEASURES

Flash Point (^{o}/Test Method)	None - p-m closed cup
Flammable Limits (LFL & UFL)	Not applicable
Extinguishing Media	None required. Use medium appropriate for surrounding fire.
Hazardous Combustion Products	Not applicable
Special Fire Fighting Procedures	None required. Use medium appropriate for surrounding fire.

6. ACCIDENTAL RELEASE MEASURES

Recover as much as possible for reuse in timely manner consistent with manufacturer's directions. Proper caution should be taken as area may be slippery. Spill residue may be washed down a process or sanitary sewer and depending upon local regulations storm sewer may be acceptable. Product is readily biodegradable in the natural environment.

7. HANDLING AND STORAGE

Keep container of concentrated product sealed with special vented cap provided. Maintain temperature below 44°F to ensure sufficient effectiveness as a soil amendment. Temperatures above 44°F for 48 hours are acceptable if product used as directed. Over heating does not affect the safety of the product. An improperly sealed or stored container may cause an unplanned pressure related evacuation of the container.

Diluted product may be aerated for up to 30 days without diminishing its effectiveness as a soil amendment. Recommended to keep diluted aerated product below 90°F and use within three weeks of dilution. Over heating does not affect the safety of the product. Dilutive product may be reduced below 44° for sustained storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

No special precautions are required. Recommend safety habits of eye protection and gloves and clothing to avoid contact. Painters mask and eye glasses are sufficient to minimize chance of ingesting or splattering in eyes.

Eye bath and a means for washing exposed skin should be available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor: watery medium to dark brown colored liquid with smell similar to molasses/yeast.

Specific Gravity (water = 1g/ml): 1.2	Odor Threshold (ppm): N/A	Solubility: water
Vapor Density (air = 1): N/A	Vapor Pressure (mmHg): N/A	Boiling Point: 212°F
Freezing Point: 32° F	pH: 4.4 -4.6 Normal under proper storage (pH may range up to 8.9 and still be effective)	Percent Volatile: N/A
Bulk Density: 9 lbs 2 oz per Gallon		Evaporation Rate: Water vapor only

10. STABILITY AND REACTIVITY

Stable

Maintain in properly vented container.

Ferments if left in concentrated form above 44°F for over 48 hours.

11. TOXICOLOGICAL INFORMATION

Health Hazards

Routes of Entry: Skin contact, Ingestion, Inhalation or contact with eyes.

Acute effects: May cause mild transient irritation.

Chronic effects: Adverse effects from chronic contact are not known.

12. ECOLOGICAL INFORMATION

Product is readily biodegradable in the natural environment. May result in biological oxygen demand.

13. DISPOSAL CONSIDERATIONS

Containers may be rinsed with water and disposed of as approved by local authorities. Containers may also be recycled through the Company's current recycle program.

14. TRANSPORT INFORMATION

DOT Hazard Class / Description: not applicable

15. REGULATORY INFORMATION

NFPA Hazard Rating: 0 Health; 0 Flammability; 0 Instability HMIS Rating: 0 Health; 0 Flammability; 0 Reactivity

SARA Hazard Notification / Reporting: none

CA Proposition 65: Not Listed

16. OTHER INFORMATION

The information in this MSDS is based upon available data. No warranty is expressed or implied with respect to the accuracy of this data or the results to be obtained from the use. Users should satisfy themselves that they have all current data relevant to their particular use.

Holganix LLC assumes no responsibility or liability for any incidental or consequential damages whether related to personal injury or property damage, to vendees, users or third parties, caused by the material; and Holganix LLC responsibility is limited to replacement of, or repayment of, the purchase price for the material(s) with respect to which damages are claimed. All vendees or users assume all risk associated with the use of the material(s).