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Bio Nectar



BIO NECTAR introduces beneficial microorganisms and enzymes to the soil profile which enhance the biodiversity of the plant rhizosphere. Enhanced biodiversity results in improved crop yields in addition to more efficient water utilization. **BIO NECTAR** contributes to healthier soil by reducing compaction and improving aeration, as well as greater nitrogen utilization. **BIO NECTAR** interacts with plant roots to assist in providing beneficial enzymes. While some microbial products are produced anaerobically to accommodate a longer shelf life, **BIO NECTAR** is produced in the presence of oxygen which results in a more complete and balanced product that will benefit the soil environment with greater microbial diversity. The presence of oxygen promotes a microbe active rhizosphere in the root zone. **BIO NECTAR** is derived from earthworm castings, molasses, and kelp.

Directions for Use: Dilute one part product with a minimum of 3 parts water or blend to correct pH. Higher dilution rates result in better coverage. Always jar test new mixes.

Application Recommendations: Use on all crops. Sidedress or water run as often as desired per season. May also be spoon fed through drip or sprinkler irrigation. **COMPATIBILITY:** **BIO NECTAR** can be used with most commonly used fertilizers. Do not mix with soil fumigants, aqua ammonia, sulfuric acid, urea sulfuric acid, pesticides, or herbicides. Avoid applying with chlorinated water straight out of the faucet without allowing 24 hours for the chlorine to vaporize off as **BIO NECTAR** is composed of live organisms subject to damage from chlorine or the above mentioned products.

Storage and Handling: Stir prior to using. In case of accidental exposure, flush with water. Temporary staining of the skin may occur. Product is non-hazardous. To ensure ease of mixing and application, dilute with sufficient amounts of water.

Warning Information: KEEP AWAY FROM CHILDREN. NOT FOR HUMAN CONSUMPTION.



BIO NECTAR

An inoculum product for establishing populations of beneficial bacteria

CONTAINS NON-PLANT FOOD INGREDIENTS

Active Ingredients:

Azotobacter croococcum	1,000,000 CFU/ml
Azotobacter vinelandii	1,000,000 CFU/ml
Bacillus subtilus	1,000,000 CFU/ml
Bacillus megaterium	1,000,000 CFU/ml
5.0%	Molasses (from cane)
1.0%	Worm castings
1.0%	Mature composted hay
0.5%	Kelp extract (ecklonia maxima)
92% Water	

Expiration Date: _____

After this date the microbial inoculant portion of this
Product may begin to lose effectiveness.

Application Directions: Apply at a dilution rate of 1:1 with water or weaker. A higher dilution rate is preferred for better coverage. It may be used in combination with foliar applied materials. Stir prior to using. To ensure ease of mixing and application, dilute with sufficient amounts of water. **BIO NECTAR** should be applied promptly after mixing with water or other materials. Jar test new mixes to insure compatibility. Do not mix with soil fumigants, aqua ammonia, sulfuric acid, urea sulfuric acid, pesticides, or herbicides. Avoid applying with chlorinated water straight out of the faucet. Allow 24 hours for the chlorine to vaporize off as **BIO NECTAR** is composed of live organisms subject to damage from chlorine or the above mentioned products.

Storage and Handling: **BIO NECTAR** is suitable for storage up to 8 weeks out of direct sunlight. Loosen cap as necessary for venting while in storage. Mix well before using. Do not store product after mixing with water or other materials.

Warning Information: Do not swallow. Avoid contact with eyes, open sores, or cuts. Wash exposed skin thoroughly after use. Keep out of reach of children and pets.

Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.htm>

Manufactured by:
Texas Earth, Inc.
PO Box 407

MATERIAL SAFETY DATA SHEET — 16 Sections

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier BIO NECTAR				[WHMIS Classification]	
Product Use Microbial Stimulant - Agricultural					
Manufacturer's Name TEXAS EARTH INC			Supplier's Name TEXAS EARTH INC		
Street Address PO BOX 407			Street Address PO BOX 407		
City BROWNFIELD		State TX	City BROWNFIELD		State TX
Postal Code 79316		Manufacturer's Telephone 806-637-1615		Postal Code 79316	Emergency Telephone 1-800-262-8200 (Chem Trec)
Date MSDS Prepared 7/11/2013		MSDS Prepared By Midwest Laboratories, Inc.		Phone Number 402-334-7770	

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (<i>specific</i>)	%	CAS Number	LD ₅₀ of Ingredient (<i>specify species and route</i>)	LC ₅₀ of Ingredient (<i>specify species</i>)
No listed hazardous materials present.				

SECTION 3 — HAZARDS IDENTIFICATION

Route of Entry	<input checked="" type="checkbox"/> Skin Contact	<input checked="" type="checkbox"/> Skin Absorption	<input checked="" type="checkbox"/> Eye Contact	<input type="checkbox"/> Inhalation	<input checked="" type="checkbox"/> Ingestion
Emergency Overview Avoid ingesting material.					
WHMIS Symbols					
<p>Flammability</p> <p>Health</p> <p>Instability</p>					
Potential Health Effects Possible hypersensitivity due to repeated exposure.					

SECTION 4 — FIRST AID MEASURES

Skin Contact Flush with water and wash with a mild soap.
Eye Contact Flush with water.
Inhalation N/A
Ingestion Do not induce vomiting. Drink milk or water.

SECTION 5 — FIRE FIGHTING MEASURES

Flammable <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		If yes, under which conditions?	
Means of Extinction Material will not burn because of excess water.			
Flashpoint (°C) and Method 59°C ASTM D93		Upper Flammable Limit (% by volume) Not Tested	Lower Flammable Limit (% by volume) Not Tested
Autoignition Temperature (°C) Not Tested		Explosion Data — Sensitivity to Impact Will not explode	Explosion Data — Sensitivity to Static Discharge Will not explode
Hazardous Combustion Products Material will not combust.			
[NFPA] Not listed			

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures Prevent release to storm sewers or waters of the state. Use general absorbent to dike and absorb material.

SECTION 7 — HANDLING AND STORAGE

Handling Procedures and Equipment No special handling procedures. General purpose pumping.
Storage Requirements No special storage requirements.

SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits None listed <input type="checkbox"/> ACGIH TLV <input type="checkbox"/> OSHA PEL <input type="checkbox"/> Other (specify)
Specific Engineering Controls (such as ventilation, enclosed process) No specific engineering control required.
Personal Protective Equipment <input checked="" type="checkbox"/> Gloves <input type="checkbox"/> Respirator <input checked="" type="checkbox"/> Eye <input type="checkbox"/> Footwear <input type="checkbox"/> Clothing <input type="checkbox"/> Other
If checked, please specify type General use gloves when handling in large quantities. Always wear protective eyewear.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid	Odor and Appearance Brown liquid and earthy odor	Odor Threshold (ppm) Not Tested
Specific Gravity 1.010 g/mL at 20 °C	Vapor Density (air = 1) Not Listed	Vapor Pressure (mmHg) Not Tested
Evaporation Rate Not Listed	Boiling Point (°C) 100 °C	Freezing Point (°C) 0 °C
pH 3.6 S.U.	Coefficient of Water/Oil Distribution Not Tested	[Solubility in Water] 100% miscible in water

SECTION 10 — STABILITY AND REACTIVITY

Chemical Stability <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If no, under which conditions?
Incompatibility with Other Substances <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If yes, which ones? Strong chemical oxidizers.
Reactivity and under what conditions? Non reactive to acid, water, or alkali.	
Hazardous Decomposition Products Will not decompose.	

SECTION 11 — TOXICOLOGICAL INFORMATION

Effects of Acute Exposure None known.	
Effects of chronic exposure Possible skin and mucous membrane hypersensitivity.	
Irritancy of Product Mild irritant.	
Skin sensitization Mild irritant.	Respiratory sensitization No respiratory irritation.
Carcinogenicity-IARC Not Listed	Carcinogenicity - ACGIH Not Listed
Reproductive toxicity Not Listed	Teratogenicity Not Listed
Embrototoxicity Not Listed	Mutagenicity Not Listed
Name of synergistic products/effects No synergistic effects.	

SECTION 12 — ECOLOGICAL INFORMATION

[Aquatic Toxicity] None known – material is defined as microbial stimulant.

SECTION 13 — DISPOSAL CONSIDERATIONS

[Water Disposal] Do not dispose in water. Dike any liquid and absorb with general absorbent. Can be placed in a municipal landfill or used as a soil amendment.

SECTION 14 — TRANSPORT INFORMATION

Special Shipping Information No special shipping requirements.		PIN
TDG No data	[DOT] No data	
[IMO] No data	[ICAO] No data	

SECTION 15 — REGULATORY INFORMATION

[WHMIS Classification] Not listed	[OSHA] Not listed
[SERA] Not listed	[TSCA] Not listed
<i>This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by CPR.</i>	

SECTION 16 — OTHER INFORMATION

This information hereby is furnished without warranty of any kind. Individual handling the product should only use this information as supplemental information to others gathered. The information used by the parties handling and using the product need to be aware of proper use and disposal of the material. Some of the material included in this MSDS was obtained from reference material about the product and not based on specific tests or analyses carried out by the laboratory.