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Safety Data Sheet

MicroStar™ 2.0

Bioaugmentation Supplement

Section 1 - Identification

Product Name: MicroStar™ 2.0

Product Use: Bioaugmentation Supplement

Product Description: Wastewater Bioaugmentation

Issued: October 20th 2017

Revised: October 20th 2017

Supplier Details:

Environmental Business Specialists, LLC

1930 Surgi Drive

Mandeville, LA USA 70448

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Website: www.ebsbiowizard.com

Emergency Numbers:

Chemtrec: 800-424-9300

Phone: 985-674-0660

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Section 2 - Hazard(s) Identification

GHS Classification(s):

Acute Toxicity Oral Category 4

Acute Toxicity Dermal Category 5

Acute Toxicity Inhalation Category 5



Signal Word: Warning

Hazard Statements: Harmful if swallowed. May be harmful in contact with skin. May be harmful if inhaled.

Precautionary Statements:

Prevention: Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF INGESTED, give large quantities of water to dilute. Consult a physician promptly. IF ON SKIN OR CLOTHING, immediately flush skin with water. If irritation persists, seek medical attention. IF IN EYES, immediately flush eyes thoroughly with water for at least 15 minutes. If irritation persists, seek medical attention.

Storage: Keep out of extreme temperatures. Avoid strong acids and alkali compounds. Avoid oxides of carbon and nitrogen.

Disposal: Disposal is subject to federal, state, and local regulations.

Other hazard information:

Physical/Chemical Hazards: No additional hazards

Health Hazards: Contact with eyes may produce irritation. May produce gastric distress upon ingestion.

Environmental Hazards: No additional hazards

Section 3 - Composition/Information on Ingredients

Component	CAS#	% by Wt.
Concentrated Class 1 non-pathogenic bacteria cultures		0.5 - 1.5%
Proprietary micronutrients and buffering agents		40 - 60%
Bran carrier and growth media		40 - 60%

Section 4 - First Aid Measures

Inhalation: If inhaled, remove from area to fresh air. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical attention. If breathing is difficult, give oxygen. If not breathing, give artificial respiration.

Skin Contact: In case of contact, remove contaminated clothing and shoes. Wash contact areas thoroughly with soap and water. Do not allow material to contact open wounds. If such contact occurs, wash with soap and water and apply a superficial disinfectant. Launder contaminated clothing before reuse. If irritation develops and persists, seek medical attention.

Eye Contact: In case of contact, do not rub eyes. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. If irritation develops and persists, seek medical attention.

Ingestion: If ingested, remove material from mouth and rinse with water. If victim is conscious and alert, give water or milk to dilute. Do not induce vomiting, unless directed by medical personnel. If gastric distress develops, seek medical attention.

Section 5 - Fire Fighting Measures

General Information: This material is not considered flammable or combustible.

Suitable Extinguishing Media: Water mist, dry chemical, carbon dioxide (CO₂), or alcohol foam.

Unsuitable Extinguishing Media: None known.

Specific Hazards in case of fire: None known.

Special Protective Equipment and Precaution for Fire Fighters: Full protective clothing and approved self-contained breathing apparatus required for firefighting personnel.

Section 6 - Accidental Release Measures

Personal Precautions: Wear approved respirator for nuisance dust during cleanup. Wear appropriate personal protection equipment (see section 8).

Environmental Precautions: None known.

Methods and Materials for Containment and Cleaning Up: For small spills, flush material to the sewer. Product is biodegradable. For large spills, contain and collect for reuse.

Section 7 - Handling and Storage

Precautions for safe handling: Wear appropriate personal protection equipment (see section 8). Do not ingest.

Conditions for safe storage, including incompatibilities: Store in a cool place. Store away from incompatible materials (see section 10).

Section 8 - Exposure Control/Personal Protection

Respiratory protection: Dust mask for limited exposure. For prolonged exposure, air purifying respirator or NIOSH/MSHA-approved respirators are recommended.

Eye protection: None required.

Skin protection: Gloves are recommended.

Section 9 - Physical and Chemical Properties

Physical State: Granular.

Color: Straw.

Odor: Musty.

Odor Threshold: Not determined..

pH: 6.0 - 9.0

Melting Point/Freezing Point: Not determined.

Boiling Point: Not determined.

Flash Point: Not determined.

Evaporation Rate: Not determined..

Flammable Limits: Not determined.

Burning Time: Not determined.

Burning Rate: Not determined.

Upper/Lower Flammability/Explosive Limits: Not determined.

Vapor Pressure: Not determined.

Vapor Density: Not determined.

Specific Gravity: 0.4 - 0.5 (g/cm³)

Solubility in Water: Soluble.

Partition Coefficient (n- octanol/water): Not determined.

Auto-Ignition Temperature: Not determined.

Decomposition Temperature: Not determined.

Viscosity: Not determined.

Section 10 - Stability and Reactivity

Chemical Stability: Product is stable under recommended conditions of use and storage.

Possibility of hazardous reactions: Reacts with sodium or calcium hypochlorite to form explosive nitrogen trichloride.

Conditions to avoid: Heat, sparks, flames, static electricity, and dust spread.

Materials to avoid: Strong acids or alkali compounds may inactivate cultures. Incompatible with aluminum powder, fluorine, and molten lithium. Avoid containers, piping, or fittings made of brass, bronze, other copper-bearing alloys, and galvanized metals.

Hazardous Decomposition Products: Combustion oxides of carbon, sulfur, and nitrogen may form; carbon dioxide, carbon monoxide, chlorous fumes.

Section 11 - Toxicological Information

Routes of Exposure: Oral, dermal and inhalation.

Acute Toxicity: No data available.

Subchronic/Chronic Toxicity: Prolonged and/or repeated exposure to skin and/or eyes may produce irritation.

Section 12 - Ecological Information

Persistence and degradability: No data available.

Bio-accumulative potential: No data available.

Mobility: No data available.

Aquatic Toxicity:

Test	Result	Species	Dose	Exposure
Toxicity	No data available			

Section 13 - Disposal Considerations

Hazardous Waste Number: Not available.

Disposal Method: Dispose of in accordance with all local, state and federal regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied.

Section 14 - Transport Information

US DOT: Not regulated.

TDG: Not regulated.

IATA: Not regulated.

IMDG: Not regulated.

Section 15 - Regulatory Information

TSCA: All components of this product are listed on the TSCA Inventory or are exempt from TSCA Inventory requirements.

Regulated Components:

Component	CAS #	CERCLA RQ	SARA 311	SARA 312	SARA 313
Urea	57-13-6	No	Yes	Yes	No
Sodium Sesquicarbonate	533-96-0-2	No	Yes	Yes	No
Manganese	7439-96-5	No	No	No	Yes
Copper	7440-50-8	No	No	No	Yes
Zinc	7440-66-6	No	No	No	Yes

State of California, Proposition 65: No components of these products are listed under State of California Proposition 65 to cause cancer and birth defects or other reproductive harm.

Section 16 - Other Information

Hazard Rating System	Health	Flammability	Reactivity
	1	0	0

NFPA Rating System	Health	Flammability	Reactivity	Special Hazard
	1	0	0	None

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