



Safety Data Sheet

MacroGro™ 1612

Bioaugmentation Nutrient Blend

Section 1 - Identification

Product Name: MacroGro™ 1612

Product Use: Bioaugmentation Nutrient Blend

Product Description: Wastewater Bioaugmentation

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Supplier Details:

Environmental Business Specialists, LLC

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Emergency Numbers:

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Section 2 - Hazard(s) Identification

GHS Classification(s):

Acute Toxicity Oral Category 4

Acute Aquatic Toxicity Category 3

Acute Toxicity Dermal Category 5



Signal Word: Warning

Hazard Statements: Harmful if swallowed. Harmful to aquatic life. May be harmful in contact with skin.

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 using containers, pipes, and fittings made of the following: Brass, Zinc, Copper, and Aluminum.

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	% by Wt.
Nitrogen	16% as N
Phosphorus	12% as P2O5

Section 4 - First Aid Measures

Inhalation: Not considered an inhalation hazard.

Skin Contact: In case of contact, remove contaminated clothing and shoes. Wash contact areas thoroughly with soap and water. Do not allow the 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 the mouth and rinse with water. If the 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: Under high heat, may give off ammonia and NO_x fumes.

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: May cause eutrophication in waterways. Proper use and disposal should not cause a significant environmental impact.

Methods and Materials for Containment and Cleaning Up: For small spills, mop or pump small spills into appropriate containers. Be aware spills can create slippery conditions. For large spills, stop spill at source, dike and transfer material into appropriate containers for reclamation or disposal.

Section 7 - Handling and Storage

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

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: Avoid breathing mist if any should form.

Hand Protection: Rubber coated gloves recommended if prolonged or repeated exposure.

Eye protection: Safety glasses or goggles are recommended.

Skin protection: Rubber coated clothing recommended if prolonged or repeated exposure.

Section 9 - Physical and Chemical Properties

Physical State: Liquid.

Color: Light brown to dark green.

Odor: Slight ammonia.

Odor Threshold: Not determined..

pH: 6.5 - 7.2

Melting Point/Freezing Point: Not determined.

Boiling Point: > 212oF

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.

Density or Specific Gravity: 1.16 - 1.29 (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: None known.

Conditions to avoid: Excessive heat and/or cold.

Materials to avoid: Strong acids or alkali compounds may inactivate cultures. Incompatible with aluminum powder, fluorine, and molten lithium.

Hazardous Decomposition Products: Oxides of carbon and nitrogen. Can release large amounts of carbon dioxide gas.

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			

Other Adverse Effects: May cause eutrophication in waterways. Proper use and disposal should not cause a significant environmental impact.

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
Ammonia Polyphosphate as P2O5	68333-79-9	No	Yes	Yes	No
Ammonium Sulfate	7783-20-2	No	Yes	Yes	No
Urea	57-13-6	No	Yes	Yes	No
Ammonium Nitrate	6484-52-2	No	Yes	Yes	No

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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