

MATERIAL SAFETY DATA SHEET (MSDS)

Section I – Identification

ExploGrow™ (or ExploGrow with Agribiotics™). DAFF Product Reg. No. B4807

Section II - Hazardous Ingredients / Identity Information

Hazardous Components (Specific Chemical Identity, Common Name(s)): None.

OSHA PEL: N/A. **ACGIH TLV:** N/A. **Other Limits Recommended:** N/A.

Section III - Physical / Chemical Characteristics

Boiling Point: 100°C

Vapor Pressure (mm Hg): 15 lb.

Vapor Density (AIR = 1): N/A

Solubility in Water: 100%

Specific Gravity (H₂O = 1): N/A

Melting Point: N/A

Evaporation Rate (Butyl Acetate = 1): N/A

Appearance and Odor: Black, Odorless, Colorless when diluted

Section IV - Fire And Explosion Hazard Data

Flash Point (Method Used): N/A

Extinguishing Media: N/A

Special Fire Fighting

Procedures: N/A

Unusual Fire and Explosion Hazards: None

Flammable Limits: Zero

LEL: N/A

UEL: N/A

Section V - Health Hazard Data / First-aid Measures

Health Hazards (Acute and Chronic) Carcinogenicity

NTP: No

IARC Monographs: N/A

OSHA Regulated: Yes

Route(s) of Entry

Inhalation: No

Skin: No

Ingestions: No

Signs and Symptoms of Exposure: None

Medical Conditions Generally Aggravated by Exposure: None known

Emergency and First Aid Procedures: Rinse with soap and water. Remove from exposure. Provide fresh air. In case of irritation, allergic symptoms or ingestions, seek medical advice.

Section VI- Accidental Release Measures

Small Releases: Contain product. Reuse material if uncontaminated. If contaminated, sweep, shovel or vacuum material into a suitable container for proper disposal. Do not contaminate water supplies. Use standard safety precautions and protective clothing (gloves/goggles) while cleaning up.

Waste Disposal Method: Dispose according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

Section VII - Precautions For Safe Handling and Storing

Steps to Be Taken in Case Material is Spilled: Clean with soap and water.

Waste Disposal Method: Follow same disposal protocol as with any other non-hazardous, biodegradable liquid waste.

Precautions to Be Taken in Handling and Storing: Avoid storing in extreme temperatures (or in direct sunlight) for long periods of time. Store in temperature controlled areas between 4.4°C and 26°C if possible. Leave at least one inch airspace between top of container and product.

Section VIII– Exposure Controls, Personal Protection

RESPIRATORY PROTECTION: Generally not needed. If use generates an aerosol mist or respiratory irritation, use NIOSH-approved dust/moist respirator (such as 3M#8710).

Ventilation: Where air contaminant can exceed acceptable criteria, use NIOSH/MSHA approved respiratory protection equipment. Respirators should be selected based on the form and concentration of contaminate. Avoid opening the containers in closed rooms.

SKIN PROTECTION: Neoprene gloves or other work gloves. Wash contaminated clothing prior to reuse.

EYE PROTECTION: Standard safety goggles.

EXPOSURE GUIDELINES:

STEL: OSHA

TWA: N/A

ACGIH: N/A

Section IX – Composition/Information on ingredients

Azotobacter vinelandii
Azospirillum humicireducens
Rhizobium radiobacter
Flavimonas oryzihabitans
Ensifer fredii
Bacillus licheniformis
Bacillus thuringiensis
Trichoderma harzianum

Azorhizophilus paspali
Ensifer meliloti
Ensifer numidicus
Sinorhizobium americanum
Pseudomonas japonica
Bacillus cereus
Trichoderma aureoviride
Trichoderma inhamatum
Trichoderma virens

CFU Count per ml ... $>5.7 \times 10^9$

Composition of Humic and Fulvic Acid 12% as a carrier for preprimary polymicrobial blend derived from Humalite. Inert ingredients: 88%

No Contaminants or Pathogens present.

Section X – Stability and Reactivity

Stability: This product is stable.

Conditions to Avoid: Exposure, for long periods of time, to high temperatures (exceeding 30°C) or direct sunlight, if possible.

Incompatibility (Materials to Avoid): This product is incompatible with fungicides and toxic herbicides.

Hazardous Decomposition or Byproducts: Product does not produce any hazardous byproducts and is biodegradable.

Hazardous Polymerization: Cannot occur under any condition.

Section XI – Toxicological Information

ORAL: May cause discomfort including possibly some nausea, vomiting and diarrhea. Seek medical advice.

DERMAL: May cause slight irritation or cause redness, especially from prolonged exposure.

INHALATION: None expected but inhalation may cause irritation of nasal mucous membranes and/or bronchial irritation or coughs. Provide ventilation and seek medical advice.

CHRONIC/ CARCINOGENICITY: Data not available. None known.

TERATOLOGY: Data not available. None known.

REPRODUCTION: Data not available. None known.

MUTAGENICITY: Data not available. None known.

EYES: May cause temporary eye irritation.

Section XII - Ecological Information

Alga/Lemna Growth Inhibition: None.

Toxicity to Fish and Invertebrates: None.

Toxicity to Plants: None.

Toxicity in Birds: None.

Section XIII- Disposal Considerations

Do not contaminate lakes, streams, ponds, estuaries, oceans or other waters by discharge of waste effluents or equipment wash waters.

Dispose of waste effluents in accordance with waste disposal regulations.

Section XIV - Transportation Information

D.O.T. Not DOT Regulated.

Other Shipping Description: Compound Soil Inoculum – liquid.

Not hazardous for air, road, rail or sea transportation.

Section XV – Regulatory Information

CERCLA: None.

SARATITLEIII, Section 313 Toxic Chemicals: None.

Section XVI - Other Information

None.