

MATERIAL SAFETY DATA SHEET

International Biologics, Inc
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Effective Date: 3/15/09

Product: **Ferticell Absolute Organic Acid**

1. IDENTIFICATION

Chemical Name: Proprietary composition
Chemical Family: Organic water treatment product
Formula: N/A, Formulated Mixture
Synonyms: None
CAS Number: N/A

2. PHYSICAL DATA

Flash Point (Method): Greater than 200° F (COC)
Vapor Pressure: Not Available
Vapor Density: Not Available
Specific Gravity: 1.11 – 1.12
pH: 3.5
Melting Point: N/A
Water Solubility: 100%
Appearance: Light tan liquid, with amine odor

3. INGREDIENTS

Material	CAS Number	Percent	Hazard
Organic water treatment product with proprietary composition		100%	Skin, Eye, and Respiratory Tract Irritant.

4. FIRE AND EXPLOSION HAZARD

Flash Point: 200° F (COC)
Autoignition Temperature: Non-combustible
Flammable Limit: N/A

- Extinguishing Media: Water fog or fine spray but not stream, carbon dioxide, dry chemical foam (alcohol resistant-ATC type preferred).
- Special Fire Fighting Procedures: Wear self-contained breathing apparatus with full face shield operated in positive pressure mode and wear protective clothing to prevent contact with skin. Use water spray to keep fire-exposed containers cool.
- Fire and Explosion Hazard: Emits toxic fumes under fire conditions.

5. HEALTH HAZARD DATA

Carcinogen Information: None currently known

ACUTE EFFECTS OF OVER EXPOSURE

- Swallowing: May be harmful if ingested.
- Skin Absorption: Causes skin irritation. May be harmful if absorbed through the skin.
- Inhalation: May be harmful if inhaled. Material is irritating to mucous membranes and respiratory tract.
- Skin Contact: Causes skin irritation, redness, and pain.
- Eye Contact: Causes eye irritation.
- Chronic Effects: Not expected to be a health hazard.
- Other Hazard: None.

EMERGENCY AND FIRST AID PROCEDURES

- Swallowing: If swallowed, drink milk, raw egg white, mucilage, milk of magnesia, or gelatin solution. If not available drink large quantities of water. If irritation continues seek medical attention.
- Skin: Remove contaminated clothing, flush with water for at least 15 minutes. If irritation persists, call a physician.
- Inhalation: Remove to fresh air. Seek medical attention if irritation develops.
- Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
- Note to Physician: In the event of an adverse response, treatment should be directed toward control

of the symptoms.

6. REACTIVITY

Stability:	Stable
Conditions to Avoid:	Heat and incompatibles.
Polymerization:	Will not occur.
Incompatibility Material:	Acids, Alkalis, Amines, 2-Aminoethanol, Chlorosulfuric acid, glass, metals, nitrogen compounds, oleum, and oxidizers.
Hazardous Decomposition of Products:	CO, CO ₂ , nitrogen oxides.

7. SPILL OR LEAK PROCEDURES

Spill or Leak Procedures:	Wear appropriate protective clothing and/or equipment. Neutralize with lime or soda ash, or use a suitable absorbent. Remove contaminated absorbent, flush spill area with water.
Waste Disposal Method:	Comply with all local, state, and federal regulations. If permissible, flush to drain; neutralize with lime or soda ash, if required, then flush to drain.
Precautions for Handling and Storage:	Do not use inconsistent with labeling. Do not mix with other chemicals. Keep out of reach of children and untrained users.
Other Precautions:	Corrosive material! Store in cool, well-ventilated area, out of direct sunlight. Keep containers tightly closed.

8. SPECIAL PROTECTION INFORMATION

Respiration: The OSHA permissible exposure limit is 15 mg/m³ total dust and 5 mg/m³ respirable fraction. Under normal conditions none is normally required. In the event that the permissible exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest.. A full-face piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency, or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Ventilation: Local exhaust sufficient.

Gloves: PVC or Neoprene or other chemical resistant.

Eyes: Chemical safety goggles, full face shield.

Other: Safety shower and eye bath nearby.
Rubber apron, boots. Full rubber acid suit.

9. SHIPPING INFORMATION

Shipping Name: N/A.
Hazard Class: None.
Identification Number: None.
Labels Required: None.
Placarding: None.
Freight Class: Compound, manufactured liquid fertilizer.