



MATERIAL SAFETY DATA SHEET

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SECTION I: GENERAL INFORMATION

Product Name: Optimizer Humic Acid
Chemical Name and Synonyms: Humic Acid Extracts and Derivatives
Date of Issue: 9-15-07

SECTION II: INGREDIENTS

Material	CAS #	TLV	EPA #
Product complies with OSHA 29 CFR XVII-1910.1200	N/A	N/A	Not Required
Section (1) "trade secrets." Contains no hazardous components under OSHA definitions.			

SECTION III: PHYSICAL/CHEMICAL DATA

Boiling Point:	> 100° C	Solubility:	Water Soluble
Freezing Point:	< 20° F	Evaporation:	Not Determined
Specific Gravity:	1.08 (H2O=1)	Melting Point:	Not Applicable
Vapor Pressure:	Not Determined	Appearance:	Dark Black liquid with slight odor
Vapor Density:	Not Determined		

SECTION IV: FIRE AND EXPLOSION DATA

Flash Point:	Non-Combustible
Flammable Limit:	N/A
Auto ignition Temp:	N/A
Extinguishing Media:	Non-combustible liquid. Use extinguishing media suitable for underlying fire
Special Firefighting Procedures:	Wear self-contained breathing apparatus and full protective clothing. Use water spray to keep fire-exposed containers cool.

SECTION V: REACTIVITY DATA

Stability:	Stable
Conditions to Avoid:	None currently known.
Polymerization:	Will Not Occur
Incompatibility Material:	Neutralization reaction may occur if exposed to Acidic Materials
Hazardous Combustion:	None currently known.

SECTION VI: OTHER INFORMATION

National Fire Protection Association Rating: (Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)
Health: 1 Fire: 0 Reactivity: 0

S.A.R.A. Title III Hazard Classification: (Yes/No)

Immediate (Acute) Health:	Y	Fire:	N
Delayed (Chronic) Health:	N	Reactive:	N
Sudden release of pressure:	N		

SECTION VII: HEALTH HAZARD DATA

Carcinogen Information: None currently known. None of the components of this material are listed by IARC, NTP or OSHA as a carcinogen.

ACUTE EFFECTS OF OVEREXPOSURE

Swallowing: Ingestion may result in vomiting & abdominal cramps.
Skin Absorption: None currently known.
Inhalation: May cause irritation of the nose and throat.
Skin Contact: May cause skin irritation with contact.
Eye Contact: May cause eye irritation with contact.
Chronic Effects: None currently known.
Other Hazard: None currently known.

EMERGENCY & FIRST AID PROCEDURES

Swallowing: If conscious, give milk or water to drink, then induce vomiting. Obtain medical attention if irritation develops.
Skin: Wash skin thoroughly with soap and water. Obtain medical attention if irritation develops.
Inhalation: Move to fresh air. Obtain medical attention if irritation develops.
Eyes: Flush eyes with water for 15 minutes, holding eyelids open. Obtain medical attention if irritation develops.
Notes to physician: In the event of an adverse response, treatment should be directed toward control of the symptoms. Ingestion may result in corrosive damage to the digestive tract.

SECTION VIII: SPILL, LEAK, AND DISPOSAL PROCEDURES

Spill or leak procedures: Contain product. Reuse material, if uncontaminated. If contaminated, absorb product with an inert material, such as clay or sand, collect and place in suitable containers for proper disposal. Do not contaminate water supplies with spilled material.
Waste disposal method: This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

SECTION IX: SPECIAL PROTECTION INFORMATION

Respiration: None needed under normal use conditions.
Ventilation: Local exhaust is sufficient.
Gloves: Impervious gloves recommended.
Eyes: Chemical goggles or shielded safety glasses recommended.
Other: Wear clothing consistent with good practices for handling materials.

SECTION X: SPECIAL PRECAUTIONS

Precautions to be taken in Handling & Storing: Store in cool, dry place, away from children and feed or food products. Do not contaminate other stored products or the storage area by the handling or storage of this material. Immediately clean up any spills, which may occur during storage. Do not allow material to freeze.

SECTION XI: SHIPPING INFORMATION

DOT Classification: Not regulated by DOT, IATA or IMDG.
DOT Label: Not Required
Hazard Class: None

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