

# MATERIAL SAFETY DATA SHEET

Agroplasma S.L./Calle Fedra 10/29006 Malaga/SPAIN

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Effective Date: 1/01/09

Product: **Ferticell Microelements 1-0-0**

## 1. IDENTIFICATION

Chemical Name: Liquid Micronutrient Mix  
Chemical Family: Inorganic Metal Salts  
Formula: N/A, Formulated Mixture  
Synonyms: None  
CAS Number: See Ingredients

## 2. PHYSICAL DATA

Boiling Point: 212 degrees F.  
Vapor Pressure: Not Determined  
Vapor Density: Not Determined  
Specific Gravity: 1.2  
pH: 7.7  
Melting Point: N/A  
Water Solubility: 100%  
Appearance: Brown Liquid

## 3. INGREDIENTS

Material	CAS Number	Percent	Hazard
Proprietary blend of Soybean meal, magnesium sulfate, sodium borate, copper sulfate, iron oxide, manganese sulfate and zinc oxide. Micronutrients complexed with amino acids.		100%	Skin & Eye Irritant

#### **4. FIRE AND EXPLOSION HAZARD**

Flash Point:	Non-combustible
Autoignition Temperature:	Non-combustible
Flammable Limit:	N/A
Extinguishing Media:	Non-combustible liquid, use extinguishing media for underlying cause of fire.
Special Fire Fighting Procedures:	Use positive pressure self-contained breathing apparatus with full protective clothing. Use water spray to keep fire exposed containers cool.
Fire and Explosion Hazard:	Product may produce toxic fumes under fire conditions.

#### **5. HEALTH HAZARD DATA**

Carcinogen Information: None currently known

#### ACUTE EFFECTS OF OVER EXPOSURE

Swallowing:	Ingestion may cause abdominal cramps and vomiting.
Skin Absorption:	None currently known.
Inhalation:	Nose and throat irritation.
Skin Contact:	Skin irritation
Eye Contact:	Eye irritation
Chronic Effects:	None currently known.
Other Hazard:	None currently known.

#### EMERGENCY AND FIRST AID PROCEDURES

Swallowing:	Drink large quantities of water and induce vomiting. Seek medical advice.
Skin:	Wash exposed area with soap and water. Get medical advice if irritation develops.
Inhalation:	Move to fresh air. Get medical attention for any breathing difficulty.
Eyes:	Wash thoroughly with running water. Get medical advice if irritation develops.
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: None currently known.  
Polymerization: Will not occur.  
Conditions to Avoid: None currently known.  
Incompatibility Material: May react with alkaline materials.  
Hazardous Combustion: None

## 7. SPILL OR LEAK PROCEDURES

Spill or Leak Procedures: Absorb material with an absorbent such as clay or sand and place in suitable container for proper disposal.  
Waste Disposal Method: This material must be disposed of according to federal, state, or local procedures under the Resource Conservation and Recovery Act.

## 8. SPECIAL PROTECTION INFORMATION

Respiration: None normally required.  
Ventilation: Local exhaust sufficient.  
Gloves: Impervious.  
Eyes: Splash proof goggles.  
Other: None.

## 9. SPECIAL PRECAUTIONS

Special Precaution: Keep out of reach of children. Do not store with food, feed, or other material to be used or consumed by humans or animals.  
Other Precaution: None

## 10. SHIPPING INFORMATION

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