

# Agri-Sol 20-10-20 Greenhouse Premium Water Soluble Fertilizer

## MATERIAL SAFETY DATA SHEET

### SECTION I

### IDENTIFICATION

Chemical Name:	<b>Soluble Fertilizer</b>
Product Use:	Dry fertilizer for mixing with water for foliar and soil applications.
HMIS Index:	<b>Health: 1 Flammability: 0 Reactivity: 2 Personal Protection: N/A</b>
Chemical Family:	Inorganic Salts
Trade Name:	Agri-Sol 20-10-20 Greenhouse Premium Water Soluble Fertilizer
Description:	20 % nitrogen (N), 10 % phosphorus (P <sub>2</sub> O <sub>5</sub> ), 20 % potash (K <sub>2</sub> O), plus micronutrients. Professional fertilizer.

### SECTION II

### MANUFACTURER INFORMATION

Manufacturer For:	<b>Agri-Business Technologies, Inc.</b>
Address:	1102 Third Avenue Albany, GA 31707
Emergency Telephone Number:	<b>1-800-535-3820</b>
Telephone Number for Information:	(229) 436-4677, Fax: (229) 883-0452
Date Prepared:	23-Aug-02

### Section III

### INGREDIENTS

	CAS Number	OSHA PEL	ACGIH TLV	Other Limits
Potassium Nitrate	7757-79-1	None	None	-----
Ammonium Nitrate	6484-52-2	None	None	-----
Magnesium Sulfate	7487-88-9	None	None	-----
Boric Acid	10043-35-3	None	None	-----
Zinc EDTA	14025-21-9	None	None	-----
Manganese EDTA	15375-84-5	None	None	-----
Copper EDTA	14025-15-1	None	None	-----
Iron EDDHA	16455-61-1	None	None	-----
Sodium Molybdate	7631-95-1	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	-----

### SECTION IV

### PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A
Solubility in Water:	30 - 50 g/100 ml at 20 C.
Appearance and Odor:	White to bluish crystalline powder
Specific Gravity:	1.5 - 2.1
Melting Point:	In excess of 200 C.
Evaporation Rate:	N/A

### SECTION V

### FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method used)	Flammable Limits	OSHA Classification	LEL	UEL
<b>Not Applicable</b>	<b>Not Applicable</b>	<b>Not regulated</b>	<b>N/A</b>	<b>N/A</b>
Extinguishing Media: <b>Water</b> . Use Media to Control Surrounding Fire				
Special Fire Fighting Procedures: Wear positive pressure self contained breathing apparatus, and full protective clothing				
Unusual Fire and Explosion Hazards: Avoid fumes from fire. Evacuate nonessential personnel from area				

**SECTION VI****REACTIVITY DATA**

Stability:	<b>Normal</b>
Hazardous decomposition or byproducts:	<b>Nitrous Oxides, Ammonia</b>
Hazardous Polymerization:	<b>Will not occur</b>
Conditions to avoid:	<b>Temperatures over 200 C may lead to decomposition</b>
Materials to avoid:	<b>These materials may be corrosive</b>

**SECTION VII****HEALTH HAZARD DATA**

Health Hazards Acute Exposure:	<b>Toxic by ingestion. Seek medical attention immediately. Can cause irritation of skin, eyes, and respiratory system</b>
Health Hazards Chronic Exposure:	<b>Can cause damage to respiratory system, blood system, reproductive system, and urinary system.</b>
Carcinogenicity:	<b>No information available</b>

**EMERGENCY FIRST AID PROCEDURES**

SKIN: Flush with water. If irritation develops, call physician.  
 EYES: Flush with water for 15 minutes. Seek medical attention.  
 INGESTION: Drink large amounts of water, seek medical attention immediately.  
 INHALATION: Remove to fresh air. Seek medical attention immediately.

**TOXICOLOGY (Product)**

Acute Oral LD50: N/A	Carcinogenic: <b>N/A</b>
Acute Dermal LD50: N/A	Mutagenic: <b>N/A</b>
Acute Inhalation: N/A	Eye Irritation: <b>May be an irritant</b>
	Primary Skin Irritation: <b>May be an irritant</b>

**SECTION VIII****PRECAUTIONS FOR SAFE HANDLING AND USE**

Steps to be taken if material is spilled:	Sweep or shovel up spilled material. Prevent large quantities from entering drinking water supplies or streams.
Waste disposal method:	Dispose of contaminated product, empty containers and materials used in approved landfill disposal facility in accordance with federal, state, and local regulations. Apply as fertilizer to field.
Precautions for handling/storing:	Do not store near combustible materials. Avoid contact with eyes and skin. Wash thoroughly after handling. Keep container closed and away from heat, sparks, and flame. <b>KEEP OUT OF REACH OF CHILDREN.</b> Product contains boron and molybdenum. Certain crops and livestock are sensitive to these elements.

**SECTION IX****CONTROL MEASURES**

Respiratory Protection:	<b>NIOSH/MSHA - approved respirator per 29 CFR 1910.134</b>
Ventilation:	<b>Mechanical (General, adequate to remove dust from air)</b>
Protective Gloves:	<b>Heavy duty gloves</b>
Eye Protection:	<b>Goggles</b>
Other Protective Clothing:	<b>Long-sleeved shirts</b>
Work/Hygienic Practices:	<b>Follow recommendations in Section VIII. Wash hands and face before eating, drinking, or smoking.</b>

Material contained herein complies with OSHA's hazard communication standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

The information contained herein is to the best knowledge and belief, accurate. However, Agri-Sol Water Soluble Fertilizer is sold without representations or warranties, express or implied, of fitness for use or purpose or of merchantability beyond the description of said material on the face hereof, and is sold on the condition that the seller shall not be liable for accident, injury or damage occasioned during or resulting from the transportation, handling, storage, sale or use of the material.

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