The Magruder Fertilizer Check Sample 170511 has been prepared for laboratory analysis by grinding to a fine powder. This SDS applies to the original fertilizer as received from the manufacturer.



Anuvia Plant Nutrients 6751 West Jones Avenue Zellwood, FL 32798 352-720-7070

SAFETY DATA SHEET

Section 1 – IDENTIFICATION

PRODUCT IDENTIFIER: OTHER MEANS OF IDENTIFICATION:

"Anuvia" Organic-Complexed Multi-Nutrients

Organic Complexed Ammonium Sulfate and Ammonium Iron Sulfate, Ammonium Phosphate, Ammonium Sulfate, Ammonium Ferrous Sulfate, Diammonium Sulfate, or Diammonium Sulfate with Organic Content from Protein Hydrolysate, A-701, A-702, A-938, BP212, H6N204S, ACC01410

RECOMMENDED USE /

For use as a multi-nutrient fertilizer to be applied to turf, sports turf, commercial agriculture, greenhouses and home gardens.

None - This is an USEPA Exceptional Quality product

RESTRICTIONS ON USE:

MANUFACTURER:

6751 West Jones Avenue Zellwood, FL 32798 352-720-7070

Anuvia Plant Nutrients

EMERGENCY PHONE NUMBER: CALL CHEMTREC (800) 262-8200

Section 2 – HAZARDS IDENTIFICATION

GHS CLASSIFICATION: SIGNAL WORD: HAZARD STATEMENTS: PICTOGRAM: PRECAUTIONARY STATEMENTS: UNCLASSIFIED HAZARDS:

PERCENTAGE OF INGREDIENTS WITH UNKNOWN TOXICITY: Not classified None None None None

May cause skin, eye, and respiratory irritation. May be harmful if swallowed. None

Section 3 – COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTS:	Ammonium Sulfate 50-70% Ammonium Iron Sulfate 4-20%
	Iron 2-4% Potash 1-5% 16% Organics
OTHER CONTAMINANTS:	None
	The specific chemical identities and percentages of composition have
	been withheld as trade secrets.

Section 4 – FIRST AID MEASURES

EYE CONTACT:	Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids until no evidence of chemical remains (approximately 15-20 minutes). Get medical attention if eye irritation persists.
<u>SKIN CONTACT:</u>	Remove contaminated clothing and shoes. Wash affected area with soap or –mild detergent and large amounts of water until no evidence of chemical remains.
INHALATION:	Remove from exposure area to fresh air. If breathing has stopped perform artificial respiration. Keep person warm and at rest. Treat symptomatically and supportively. Get medical attention if you feel unwell.
INGESTION:	Treat symptomatically and supportively. Get medical attention if you feel unwell or if vomiting occurs. Keep head lower than hips to prevent aspiration.
MOST IMPORTANT SYMPTOMS, ACUTE AND DELAYED:	May cause eye irritation. May cause skin irritation. May cause respiratory irritation. May be harmful if swallowed.
IMMEDIATE MEDICAL ATTENTION REQUIRED:	None needed.
	Section 5 – FIRE FIGHTING MEASURES

<u>SUITABLE</u> EXTINGUISHING MEDIA:	Dry chemical, carbon dioxide, water spray or regular foam (1990 Emergency Response Guidebook, DOT P 5800.5) For larger fires, use water spray, fog or regular foam (1990 Emergency Response Guidebook, DOT P 5800.5)	
SPECIFIC HAZARDS	No acute hazard, move container from fire area if possible, avoid	ĺ.
ARISING FROM THE	breathing vapors or dusts, keep upwind.	
CHEMICAL:	3 • • • • • • • • • •	
PROTECTIVE	Follow PPE requirements found in Section 8.	
EQUIPMENT AND		
PRECAUTIONS FOR		
FIREFIGHTERS:		
SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:	No acute hazard, move container from fire area if possible, avoid breathing vapors or dusts, keep upwind. Follow PPE requirements found in Section 8.	oid

Follow PPE requirements in Section 8.

Section 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: METHODS AND MATERIALS FOR CLEANING UP:

Work to contain spill and dispose of material in accordance with applicable regulations.

Section 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING: CONDITIONS FOR SAFE STORAGE: Follow PPE requirements in Section 8.

Store in a cool, dry, well-ventilated area away from strong oxidizers.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE CONTROLS:	No occupational exposure limits established by OSHA, ACGIH or NIOSH.
APPROPRIATE ENGINEERING CONTROLS:	Use in a well-ventilated area.
RESPIRATORY PROTECTION: EYES AND FACE:	Where dusty conditions require it, use a NIOSH/MSHA- approved dust respirator for needed protection. Wear safety glasses with side shields, under dusty conditions, wear safety goggles. Do not wear contact lenses.
HANDS, ARMS, AND BODY:	To minimize skin contact, wear long-sleeve shirt, trousers and gloves for routine product handling or use
OTHER CLOTHING & EQUIPMENT:	Not generally required.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:	Light brown rhombic crystals or granules
ODOR:	Slight chemical odor
ODOR THRESHOLD:	No data
PH:	4.5 – 7.0 (0.1 M Solution)
MELTING POINT:	455 F° (235 C°) Decomposes
BOILING POINT:	No data
FLASH POINT:	No data
EVAPORATION RATE:	No data
FLAMMABILITY:	Not flammable
FLAMMABILITY LIMITS:	Not applicable
VAPOR PRESSURE:	No data
VAPOR DENSITY:	No data
RELATIVE DENSITY:	0.84
SOLUBILITY (water):	76.7% @ 25°C
PARTITION COEFFICIENT	<u>:</u> No data
AUTOIGNITION TEMP:	Not applicable
DECOMPOSITION TEMP:	No data
VISCOSITY:	Not applicable

Section 10 – STABILITY AND REACTIVITY

REACTIVITY:	Reactions may occur with incompatible materials.
CHEMICAL STABILITY:	Stable under normal conditions of use.
POSSIBILITY OF	Not reported under normal conditions of use.
HAZARDOUS REACTIONS:	
CONDITIONS TO AVOID:	Keep away from heat and incompatible materials.
INCOMPATIBLE MATERIALS:	Keep away from ammonium nitrate, potassium or sodium alloys, bases, chlorates, chlorine, copper and alloys, nitrates, strong oxidizers, potassium chlorate, potassium nitrate, and sodium hypochlorate.
HAZARDOUS DECOMPOSITION PRODUCTS:	Thermal decomposition produces gaseous ammonia and oxides of sulfur. It may also produce toxic oxides of nitrogen.

Section 11 – TOXICOLOGICAL INFORMATION

ORGANIC COMPLEXED AMMONIUM SALTS:

<u>Toxicity Data</u> :	3000 mg/kg oral-rat LD50; 640 mg/kg oral mouse LD50; 3500 mg/kg Oral domestic animal LDLO; 610 mg/kg intraperitoneal- mouse LD50	
Carcinogen Status:	None	
Local Effects:	May be an Irritant – Inhalation, skin, and eye	
Acute Toxicity Level:	May be harmful if swallowed	
Target Effects:	No data available	
At Increased Risk From Exposure to dust: Persons with Asthma		

Section 12 – ECOLOGICAL INFORMATION

<u>ECOTOXICITY:</u>	No data
PERSISTENCE AND	No data
DEGRADABILITY:	
BIOACCUMULATIVE	No data
POTENTIAL:	
MOBILITY IN SOIL:	No data
OTHER ADVERSE EFFECTS:	No data

Section 13 – DISPOSAL CONSIDERATIONS

Dispose of product in accordance with application regulations.

Section 14 – TRANSPORT INFORMATION

Not regulated for transport.

Section 15 – REGULATORY INFORMATION

Follow all applicable regulations in your jurisdiction.

Section 16 – OTHER INFORMATION

DATE OF PREPARATION:

November 3, 2015

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