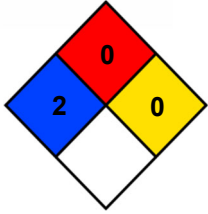




# SAFETY DATA SHEET HUMA GRO® Crop-Gard®



HMIS	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PPE	C

## SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

<b>PRODUCT IDENTIFIER:</b>	<b>HUMA GRO® Crop-Gard®</b>	<b>Product# 220</b>
<b>GENERAL USE:</b>	Used as a part of a plant nutrition program.	
<b>PRODUCT DESCRIPTION:</b>	A slightly to hazy, bluish green liquid having a unique characteristic odor.	
<b>SUPPLIER INFORMATION:</b>	<b>Bio Huma Netics, Inc.</b> 1331 W Houston Avenue Gilbert, AZ 85233	<b>EMERGENCY PHONE NUMBERS</b>
<b>For Additional SDS call:</b>	<b>PHONE: (480) 961-1220</b>	<b>CHEMTREC: (In the USA) 800-424-9300</b> <b>(International) 703-527-3887</b>

## SECTION 2: HAZARDS IDENTIFICATION

**HAZARDS OVERVIEW:**



A slightly clear to hazy, acidic, bluish green liquid having a unique characteristic odor. Exposure to this product's mists or liquid can cause severe irritation or burns to the eyes and may cause severe irritation, or possibly burns to the skin and respiratory tract, on prolonged exposure.

**CLASSIFICATION:** HAZARD CATEGORY 4

**SIGNAL WORD:** WARNING

**HAZARD STATEMENT:** H302; Harmful if Swallowed

**PRECAUTIONARY STATEMENT:** P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell, P330; Rinse Mouth P264; Wash hands thoroughly after handling, P270; Do not eat, drink or smoke when using this product.

## SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS

COMPONENT	CAS #	OSHA HAZARD	WT %	ACGIH		OSHA	
				TLV <sub>(TWA)</sub>	STEL	PEL <sub>(TWA)</sub>	STEL
Urea	57-13-6	Eye Irritant; Slight to Moderate Skin & Respiratory Irritant; Slightly Toxic by Chronic Dermal Contact & Inhalation, with Cardiovascular & Central Nervous System effects.	7 ± 1	None	None	None	None
Zinc Sulfate	7733-02-0	Eye, Skin & Respiratory Irritant; Cardiovascular, ; Blood & Central Nervous System toxin	6 ± 1	None	None	None	None
Monopotassium Phosphate	7778-77-0	Eye, Skin & Respiratory Irritant	6 ± 1	None	None	None	None
Monoammonium Phosphate	7722-76-1	Eye, Skin & Respiratory Irritant	4 ± 1	None	None	None	None
Ammonium Sulfate	7783-20-2	Eye, Skin & Respiratory Irritant	3 ± 1	None	None	None	None
Manganese Sulfate	7785-87-7	Eye, Skin & Respiratory Irritant; Central Nervous System toxin; Moderately toxic by Ingestion	2 ± 1	0.2 mg/m <sup>3</sup> Proposed: 0.02 mg/m <sup>3</sup>	None	Ceiling 5 mg/m <sup>3</sup>	None
Phosphoric Acid	7664-38-2	Corrosive; Lung Toxin	1 ± 0.2	1 mg/m <sup>3</sup>	3 mg/m <sup>3</sup>	1 mg/m <sup>3</sup>	None

NDA = No Data Available      N/A = Not Applicable

## SECTION 4: FIRST AID MEASURES

<b>INHALATION:</b>	If inhaled, immediately move to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; use the Holger Nielsen method (back pressure-arm lift) or proper respiratory device. If breathing is difficult, give oxygen. Call a physician.
<b>EYE CONTACT:</b>	In case of contact, immediately flush eyes with plenty of clean running water for at least 15 minutes, lifting the upper and lower lids occasionally. Remove contact lenses, if worn. Get medical attention immediately.
<b>SKIN CONTACT:</b>	In case of contact, immediately flush skin with plenty of clean running water for at least 15 minutes, while removing contaminated clothing and shoes. If burn or irritation occurs, call a physician.
<b>INGESTION:</b>	If swallowed, DO NOT induce vomiting. Get medical attention immediately. If victim is fully conscious, give plenty of water to drink. Never give anything by mouth to an unconscious person.
<b>NOTE TO PHYSICIANS:</b>	This product has a relatively low oral toxicity, but it may be severely irritating and/or corrosive to the eyes, skin and mucous membranes. If ingested, consideration should be given to careful endoscopy as stomach or esophageal irritation or burns may occur. Careful gastric lavage with an endotracheal tube in place should be considered. Treat exposure symptomatically.

## SECTION 5: FIRE FIGHTING MEASURES

<b>Flashpoint and Method:</b>	This product does not flash.		
<b>Flammable Limits (in air, % by volume)</b>	<b>Lower:</b> Not applicable	<b>Upper:</b> Not applicable	
<b>Autoignition Temperature:</b>	Not Determined		
<b>GENERAL HAZARD:</b>	This product is an aqueous solution of inorganic salts, organic plant nutrient and natural plant oils that are in a low concentration Phosphoric Acid solution. The Uniform Fire Code health hazard classification for this product is: <b>Corrosive (Acidic)</b> . This product may produce hazardous mists or hazardous decomposition products.		
<b>FIRE FIGHTING INSTRUCTIONS:</b>	<b>EXTINGUISHING MEDIA:</b> Water, foam, CO <sub>2</sub> or dry chemicals. Use a water spray or fog to cool the containers exposed to the heat of a fire.		
<b>FIRE FIGHTING EQUIPMENT:</b>	Fire fighters should wear full protective equipment, including self-contained breathing apparatus.		
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	When heated to dryness and decomposition, it emits toxic Ammonia gas and chloride compounds with toxic potassium, nitrogen, sulfur, zinc, manganese, copper and carbon oxides, plus trace or ultra-trace toxic oxide amounts, of iron, magnesium, tin, calcium and sodium, along with dense, irritating smoke.		

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>RELEASE TO LAND:</b>	Wearing recommended protective equipment and clothing, dike the spill and pick up the bulk of liquid using pumps or a vacuum truck, or absorb the liquid in sand or a commercially absorbent material. Place in approved containers for recovery, disposal, or satellite accumulation. Neutralize the acidity, of the remaining liquid, using soda ash, lime, or other agent appropriate for neutralizing acidic liquids. Flush the spill area with water; collect the rinsates for disposal or sewer, as appropriate.
<b>RELEASE TO WATER:</b>	Wear recommended protective equipment and clothing if contact with hazardous material can occur. Stop or divert water flow. Dike contaminated water and remove for disposal and/or treatment. As appropriate, notify all downstream users of possible contamination.

## SECTION 7: HANDLING AND STORAGE

<b>STORAGE TEMPERATURE:</b>	Ambient	<b>STORAGE PRESSURE:</b>	Ambient
<b>GENERAL:</b>	Store in a cool, dry, well-ventilated, area away from incompatible materials and products. Protect eyes, skin and clothing from contact with this product. Wear recommended personal protective equipment when handling this product. Avoid breathing vapors, aerosols or mists. Use with adequate ventilation. Do not take internally. Keep the container tightly closed when not in use. Wash thoroughly with soap and water, after handling this product.		

## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

**CONTROL MEASURES:** Use a local or general, mechanical exhaust ventilation system capable of maintaining emissions, in the work area, below the ACGIH-TLV, OSHA-PEL, AIHA-WEEL or levels that may cause irritation.

### RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

**RESPIRATOR:** For exposure above the ACGIH-TLV, OSHA-PEL or levels that may cause irritation, wear a NIOSH-approved full facepiece or half mask air-purifying cartridge respirator equipped with a good mist / particulate cartridge or supplied air. **Note:** Always consult the respirator manufacturer's data when determining the suitability of respiratory protective devices prior to use.

**EYES:** Wear chemical goggles (recommended by ANSI Z87.1-1979), unless a full facepiece respirator is worn. **Note:** Always consult the protective eyewear manufacturer's data when determining the suitability of protective eyewear prior to use.

**GLOVES:** Wear Neoprene, Nitrile, Butyl Rubber, or Natural Rubber gloves.

**CLOTHING & EQUIPMENT:** If contact is likely, wear a Neoprene, Nitrile, Butyl Rubber, or Natural Rubber apron when handling this product. An eye wash station and safety shower should be available in the work area. **Note:** Always consult the clothing/equipment manufacturer's permeation data when determining the suitability of clothing/equipment prior to use.

**FOOTWEAR:** In cleaning up a spill, or if contact is likely, wear Neoprene, Nitrile, Butyl Rubber, or Natural Rubber boots. **Note:** Always consult the footwear manufacturer's permeation data when determining the suitability of footwear prior to use.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Slightly hazy, bluish green	<b>Bulk Density (pounds/ft<sup>3</sup>):</b>	Not applicable
<b>Physical State:</b>	Liquid	<b>Vapor Pressure:</b>	No data available
<b>Odor:</b>	Unique, characteristic	<b>Vapor Density (air=1):</b>	No data available
<b>Odor Threshold:</b>	No data available	<b>Evaporation Rate (n-Butyl Acetate=1):</b>	No data available
<b>Molecular Formula:</b>	Mixture	<b>VOC Content / Organic Matter:</b>	No data available / 3.0%
<b>Molecular Weight:</b>	Not applicable	<b>% Volatile:</b>	No data available
<b>Boiling Point:</b>	Greater than 100° C. (212° F.)	<b>Solubility in H<sub>2</sub>O:</b>	Soluble
<b>Freezing/Melting Point:</b>	Less than 0° C. (32° F.)	<b>Octanol/Water Partition Coefficient:</b>	No data available
<b>Specific Gravity:</b>	1.20 – 1.35 @ 20° C.	<b>pH (as is):</b>	1.0 to 2.0
<b>Density (pounds/gallon):</b>	Approximately 10.44	<b>pH (1% solution):</b>	No data available

## SECTION 10: STABILITY AND REACTIVITY

**GENERAL:** This product is stable and hazardous polymerization will not occur.

**CONDITIONS TO AVOID:** Freezing and storage in direct sunlight.

**INCOMPATIBLE MATERIAL:** Strong oxidizers, caustics & strong alkali, cyanides, sulfides, sulfites, chlorine releasers, Aluminum, Magnesium, Zinc and alloys of these metals.

**HAZARDOUS DECOMPOSITION PRODUCTS:** When heated to dryness and decomposition, it emits toxic Ammonia gas and chloride compounds with toxic potassium, nitrogen, sulfur, zinc, manganese, copper and carbon oxides, plus trace or ultra-trace toxic oxide amounts, of iron, magnesium, tin, calcium and sodium, along with dense, irritating smoke.

**SENSITIVITY TO MECHANICAL IMPACT:** This product is not sensitive to mechanical impact.

**SENSITIVITY TO STATIC DISCHARGE:** This product is not sensitive to static discharge.

## SECTION 11: TOXICOLOGICAL INFORMATION

Components:	<u>Urea</u>	<u>Zinc Sulfate</u>
<b>Eye Contact:</b>	No data available	Rabbit: 420 ug; Moderate
<b>Skin Contact:</b>	No data available	No data available
<b>Oral Rat LD<sub>50</sub>:</b>	8,471 mg/kg	1,710 mg/kg
<b>Dermal Rabbit LD<sub>50</sub>:</b>	No data available (Rabbit, Subcutaneous LD <sub>50</sub> : 3 gm/kg)	No data available (Subcutaneous LD <sub>50</sub> : 300 mg/kg)
<b>Inhalation Rat LC<sub>50</sub>:</b>	No data available (Rat, Inhalation, Chronic – Multiple Dose, 288 mg/m <sup>3</sup> /17 weeks; Toxic effects: Kidney, Ureter & Bladder – Other changes in urine composition; Blood – Other changes; Nutritional and gross metabolic changes.)	No data available
<b>Human Data:</b>	Human: 22 mg/3 days; Mild	Oral Human TD <sub>Lo</sub> : 45 mg/kg/7 Days; Cardiac & Blood Effects
<b>Other Toxicological Data:</b>	Rat, Dermal, Chronic – Multiple Dose, 3,024 mg/kg/4 weeks; Toxic effects: Liver – Changes in Liver weight; Endocrine – Changes in Thymus weight; Death.	Subcutaneous Rat LD <sub>Lo</sub> : 330 mg/kg
<b>Carcinogenicity:</b>	Oral Rat TD <sub>Lo</sub> : 821 gm/kg/1 year; Tumorigenic – Neoplastic by RTECS criteria; Blood – Tumors; Blood – Lymphomax including Hodgkin's disease.	Subcutaneous Rabbit LD <sub>Lo</sub> : 3,625 ug/kg/5 Days – Tumorigenic – Tumors at site of application
<b>Teratogenicity:</b>	Intraplacental Woman TD <sub>Lo</sub> : 1,400 mg/kg (female 16 Weeks pregnant); Effects on Fertility - Abortion	Oral Rat TD <sub>Lo</sub> : 333 mg/kg (female 1-18 Days pregnant) Effects on fertility – Post implantation mortality
<b>Mutagenicity:</b>	Human DNA Inhibition; lymphocyte: 600 mmol/Liter	Human DNA Inhibition, HeLa cell: 1 umol/Liter/4 hours
<b>Synergistic Products:</b>	None reported	None reported
<b>Target Organs:</b>	Eyes, Skin, Mucous membranes, Lungs, Cardiovascular & Central Nervous Systems	Eyes, Skin, Lungs, Blood, Cardiovascular & Central Nervous Systems
<b>Medical Conditions Aggravated By Exposure:</b>	Skin, Respiratory or Cardiac disorders	Skin, Respiratory or Heart disorders
Components:	<u>Monopotassium Phosphate</u>	<u>Monoammonium Phosphate</u>
<b>Eye Contact:</b>	No data available	No data available
<b>Skin Contact:</b>	No data available	No data available
<b>Oral Rat LD<sub>50</sub>:</b>	No data available (Oral Rat LD <sub>Lo</sub> : 4,640 mg/kg)	5,750 mg/kg
<b>Dermal Rabbit LD<sub>50</sub>:</b>	Greater than 4,640 mg/kg	Greater than 7,940 mg/kg
<b>Inhalation Rat LC<sub>50</sub>:</b>	No data available	No data available
<b>Human Data:</b>	No data available	No data available
<b>Other Toxicological Data:</b>	No data available	No data available
<b>Carcinogenicity:</b>	No data available	No data available
<b>Teratogenicity:</b>	No data available	No data available
<b>Mutagenicity:</b>	No data available	No data available
<b>Synergistic Products:</b>	None reported	None reported
<b>Target Organs:</b>	Eyes, Skin & Lungs	Eyes, Skin, Lungs & Central Nervous System
<b>Medical Conditions Aggravated By Exposure:</b>	Skin or Respiratory disorders	Skin or Respiratory disorders

## SECTION 11: TOXICOLOGICAL INFORMATION (Continued from Page 4)

<b>Components:</b>	<u>Ammonium Sulfate</u>	<u>Manganese Sulfate</u>
<b>Eye Contact:</b>	No data available	No data available
<b>Skin Contact:</b>	No data available	No data available
<b>Oral Rat LD<sub>50</sub>:</b>	2,840 mg/kg	2,150 mg/kg
<b>Dermal Rabbit LD<sub>50</sub>:</b>	No data available	No data available
<b>Inhalation Rat LC<sub>50</sub>:</b>	No data available	No data available
<b>Human Data:</b>	Oral Man TD <sub>Lo</sub> : 1,500 mg/kg (Gastrointestinal effects)	No data available
<b>Other Toxicological Data:</b>	Intraperitoneal Mouse LD <sub>50</sub> : 610 mg/kg	Oral Mouse LD <sub>50</sub> : 2,330 mg/kg
<b>Carcinogenicity:</b>	No data available	Intraperitoneal Mouse TD <sub>Lo</sub> : 660 mg/kg/8 Weeks; Tumorigenic – Neoplastic by RTECS criteria
<b>Teratogenicity:</b>	No data available	Intraperitoneal Mouse TD <sub>Lo</sub> : 34,356 ug/kg; (female 10 Days pregnant) Post-implantation mortality
<b>Mutagenicity:</b>	No data available	Bacteria B Subtilis DNA Repair: 50 mmol/ Liter
<b>Synergistic Products:</b>	None reported	None reported
<b>Target Organs:</b>	Eyes, Skin, Mucous membranes, Lungs & Central Nervous System	Eyes, Skin, Lungs & Central Nervous Systems
<b>Medical Conditions Aggravated By Exposure:</b>	Skin or Respiratory disorders	Skin or Respiratory disorders
<b>Components:</b>	<u>Phosphoric Acid</u>	
<b>Eye Contact:</b>	Rabbit: 119 mg; Severe	
<b>Skin Contact:</b>	Rabbit: 595 mg/24 hours; Severe	
<b>Oral Rat LD<sub>50</sub>:</b>	1,530 mg/kg	
<b>Dermal Rabbit LD<sub>50</sub>:</b>	2,740 mg/kg	
<b>Inhalation Rat LC<sub>50</sub>:</b>	Greater than 850 mg/m <sup>3</sup> /1 hour	
<b>Human Data:</b>	Unreported Route Man LD <sub>Lo</sub> : 220 mg/kg	
<b>Other Toxicological Data:</b>	Oral Man TD <sub>Lo</sub> : 1,286 uL/kg	
<b>Carcinogenicity:</b>	No data available	
<b>Teratogenicity:</b>	No data available	
<b>Mutagenicity:</b>	No data available	
<b>Synergistic Products:</b>	None reported	
<b>Target Organs:</b>	Eyes, Skin, Mucous membranes, Lungs & Gastrointestinal tract	
<b>Medical Conditions Aggravated By Exposure:</b>	Skin, Respiratory or Gastrointestinal disorders	

## SECTION 12: ECOLOGICAL INFORMATION

### ENVIRONMENTAL FATE:

This product is heavier than water, soluble in water and will affect the pH of the water. Inorganic phosphates, in contact with soil, sub-surface or surface waters, may be taken up by plants and utilized as essential nutrients. Phosphates may also form precipitates, usually with Calcium or Magnesium. The resultant compounds are insoluble, becoming part of the soil.

### ENVIRONMENTAL CONSIDERATIONS:

The aquatic toxicity for this product is related to the pH of the water. For Rainbow trout, the reported LC<sub>50</sub> is about a pH of 4.0 for a 7 day bioassay. Other species may vary a bit from this pH level, but all are susceptible to acidic pH conditions.

## SECTION 13: DISPOSAL CONSIDERATIONS

**RCRA 40 CFR 261 CLASSIFICATION:** Non-RCRA Hazardous Waste (United States)

**U.S. EPA WASTE NUMBER/DESCRIPTION:** Not Applicable

If this product is disposed of as shipped, it does not meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of a hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D due to toxicity. As a non-RCRA hazardous liquid waste, it should be disposed of in accordance with all local, state, and federal regulations. Consult state or local officials for proper disposal method.

## SECTION 14: TRANSPORTATION INFORMATION

<b>DOT PROPER SHIPPING NAME:</b>	Phosphoric acid, solution		
	<b>Hazard Class:</b> 8	<b>UN Number:</b> UN1805	<b>Packing Group:</b> III
	<b>Primary Label:</b> Corrosive	<b>Subsidiary Label(s):</b> None	
	<b>Primary/Subsidiary Placards:</b> Corrosive		
<b>DOT Reportable Quantity (RQ):</b>	5,000 pounds (H <sub>3</sub> PO <sub>4</sub> )	<b>RQ for Product:</b> 500,000 pounds (47,552 gallons)	
<b>Marine Pollutant:</b>	No		
<b>2012 North American Emergency Response Guidebook No.:</b>	154		
<b>TDG PROPER SHIPPING NAME:</b>	Phosphoric acid, solution		
	<b>Hazard Class:</b> 8	<b>UN Number:</b> UN1805	<b>Packing Group:</b> III
	<b>Primary Label:</b> Corrosive	<b>Subsidiary Label(s):</b> None	
	<b>Primary/Subsidiary Placards:</b> Corrosive		
<b>TDG Reportable Quantity (RQ): *</b>	At least 5kg or 5 liters		
<b>TDG Schedule XII:</b>	Not listed		
<b>Regulated Limit (RL): **</b>	230kg (H <sub>3</sub> PO <sub>4</sub> )	<b>RL for Product:</b> 23,000 kg (18,254 liters)	
<b>Other Shipping Information:</b>	None		

\* Canadian Transportation of Dangerous Goods Regulations (TDGR), Part IX, Table I, Quantities or levels for Immediate Reporting: releases of reportable quantities, RQ, that meet the definition of a "dangerous occurrence" (a threat to life, health, property, or the environment) must be reported to the appropriate authorities as outlined in TDGR 9.13(1) and 9.14(1). \*\* Reporting to Environment Canada is required for any releases exceeding the regulated limits, RL, of 9.2 materials (primary or secondary). The regulated limits are found in Schedule XIII of the TDGR.

## SECTION 15: REGULATORY INFORMATION

COMPONENTS:	<u>Urea</u>	<u>Zinc Sulfate</u>	<u>Monopotassium Phosphate</u>	<u>Monoammonium Phosphate</u>
<b><u>OSHA Target Organs:</u></b>	Eyes, Skin, Mucous membranes, Lungs, Cardiovascular & Central Nervous Systems	Eyes, Skin, Lungs, Blood, Cardiovascular & Central Nervous Systems	Eyes, Skin & Lungs	Eyes, Skin, Lungs & Central Nervous System
<b><u>Carcinogenic Potential:</u></b>				
<b>Regulated by OSHA:</b>	No	No	No	No
<b>Listed on NTP Report:</b>	No	No	No	No
<b>Listed by IARC:</b>	No	No	No	No
IARC Group:	Not applicable	Not applicable	Not applicable	Not applicable
<b>ACGIH Appendix A:</b>	Not listed	Not listed	Not listed	Not listed
A1 Confirmed Human:	Not applicable	Not applicable	Not applicable	Not applicable
A2 Suspected Human:	Not applicable	Not applicable	Not applicable	Not applicable

### U.S. EPA Requirements

#### Release Reporting

##### CERCLA (40 CFR 302)

<b>Listed Substance:</b>	Not listed	Yes	Not listed	Not listed
Reportable Quantity:	Not applicable	1,000 pounds	Not applicable	Not applicable
Category:	Not applicable	C	Not applicable	Not applicable
RCRA Waste No.:	Not applicable	Not listed	Not applicable	Not applicable
<b>Unlisted Substance:</b>	Not applicable	Not applicable	Not applicable	Not applicable
Reportable Quantity:	Not applicable	Not applicable	Not applicable	Not applicable
Characteristic:	Not applicable	Not applicable	Not applicable	Not applicable
RCRA Waste No.:	Not applicable	Not applicable	Not applicable	Not applicable

### SARA TITLE III

#### Section 302 & 303 (40 CFR 355):

<b>Listed Substance:</b>	Not listed	Not listed	Not listed	Not listed
Reportable Quantity:	Not applicable	Not applicable	Not applicable	Not applicable
Planning Threshold:	Not applicable	Not applicable	Not applicable	Not applicable

#### Section 311 & 312 (40 CFR 370):

Hazard Categories (product):	<b>Fire:</b> <u>N</u>	<b>Sudden Release of Pressure:</b> <u>N</u>	<b>Reactive:</b> <u>N</u>	<b>Acute Health:</b> <u>Y</u>	<b>Chronic Health:</b> <u>N</u>
Planning threshold:	10,000 pounds	10,000 pounds	10,000 pounds	10,000 pounds	10,000 pounds

## SECTION 15: REGULATORY INFORMATION (Continued from Page 6)

COMPONENTS:	<u>Urea</u>	<u>Zinc Sulfate</u>	<u>Monopotassium Phosphate</u>	<u>Monoammonium Phosphate</u>
<b>Section 313</b> (40 CFR 372):				
<b>Listed Toxic Chemical:</b>	Not listed	Yes (Zinc Category)	Not listed	Yes (Aqua Ammonia)
Reporting Threshold:	Not applicable	10,000 pounds	Not applicable	10,000 pounds

### U.S. TSCA Status

<b>Listed</b> (40 CFR 710):	Yes	Yes	Yes	Yes
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### State Regulations

#### State of California: Safe Drinking Water and Toxins Enforcement Act, 1986 (Proposition 65):

Carcinogen:	No	No	No	No
Reproductive Toxin:	No	No	No	No

### Other Regulations

**State Right To Know Laws:** MA, NJ, PA

### Canadian Regulations

#### Product Information:

Controlled Product:	<b>Yes</b>
WHMIS Hazard Symbols:	<b>Corrosive Material</b>
WHMIS Class & Division:	<b>E</b>

#### Ingredient Information:

IDL Substance:	No	Yes	No	No
DSL or NDSL Lists:	DSL	DSL	DSL	DSL

### COMPONENTS:

COMPONENTS:	<u>Ammonium Sulfate</u>	<u>Manganese Sulfate</u>	<u>Phosphoric Acid</u>
<b>OSHA Target Organs:</b>	Eyes, Skin, Mucous membranes, Lungs & Central Nervous System	Eyes, Skin, Lungs & Central Nervous Systems	Eyes, Skin, Mucous membranes, Lungs & Gastrointestinal tract

### Carcinogenic Potential:

<b>Regulated by OSHA:</b>	No	No	No
<b>Listed on NTP Report:</b>	No	No	No
<b>Listed by IARC:</b>	No	No	No
IARC Group:	Not applicable	Not applicable	Not applicable
<b>ACGIH Appendix A:</b>	Not listed	Not listed	Not listed
A1 Confirmed Human:	Not applicable	Not applicable	Not applicable
A2 Suspected Human:	Not applicable	Not applicable	Not applicable

### U.S. EPA Requirements

#### Release Reporting

##### CERCLA (40 CFR 302)

<b>Listed Substance:</b>	Not listed	Yes (Manganese Compounds)	Yes
Reportable Quantity:	Not applicable	1 pound	5,000 pounds
Category:	Not applicable	Not listed	D
RCRA Waste No.:	Not applicable	Not listed	Not listed
<b>Unlisted Substance:</b>	Not applicable	Not applicable	Not applicable
Reportable Quantity:	Not applicable	Not applicable	Not applicable
Characteristic:	Not applicable	Not applicable	Not applicable
RCRA Waste No.:	Not applicable	Not applicable	Not applicable

### SARA TITLE III

#### Section 302 & 303 (40 CFR 355):

<b>Listed Substance:</b>	Not listed	Not listed	Not listed
Reportable Quantity:	Not applicable	Not applicable	Not applicable
Planning Threshold:	Not applicable	Not applicable	Not applicable

#### Section 311 & 312 (40 CFR 370):

Planning threshold:	10,000 pounds	10,000 pounds	10,000 pounds
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## SECTION 15: REGULATORY INFORMATION (Continued from Page 7)

COMPONENTS:	<u>Ammonium Sulfate</u>	<u>Manganese Sulfate</u>	<u>Phosphoric Acid</u>
<b>Section 313 (40 CFR 372):</b>			
<b>Listed Toxic Chemical:</b>	Yes (Aqua Ammonia)	Yes (Manganese Category)	No (Delisted in 2000)
Reporting Threshold:	10,000 pounds	10,000 pounds	10,000 pounds

### U.S. TSCA Status

<b>Listed (40 CFR 710):</b>	Yes	Yes	Yes
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### State Regulations

#### State of California: Safe Drinking Water and Toxins Enforcement Act, 1986 (Proposition 65):

Carcinogen:	No	No	No
Reproductive Toxin:	No	No	No

### Other Regulations

**State Right To Know Laws:** MA, NJ, PA

### Canadian Regulations

#### Product Information:

Controlled Product:	<b>Yes</b>
WHMIS Hazard Symbols:	<b>Corrosive Material</b>
WHMIS Class & Division:	<b>E</b>

#### Ingredient Information:

IDL Substance:	No	Yes	Yes
DSL or NDSL Lists:	DSL	DSL	DSL

## SECTION 16: OTHER INFORMATION

**EPA Registration number:** Not applicable

**Approved Product Uses:** Used as part of a plant nutrition program.

#### Special Notes:

This product is not manufactured, or formulated to contain substances, which the State of California has found to cause cancer and/or birth defects or other reproductive harm. However, as it contains mined minerals, this product may contain trace (parts per million) or ultra-trace (parts per billion) of elements known to the State of California to cause cancer, birth defects or other reproductive harm.

#### Special Instructions:

When making solutions, always add Crop-Gard® to water or other solutions with adequate mixing to ensure a uniform solution. Do not add this product to hypochlorite bleaches, chlorine sanitizers or chlorinated cleaners as this liberates toxic, corrosive Chlorine gas. Do not add this product to strong alkali or caustics as this will release a large amount of heat and toxic Ammonia gas.

**SDS Revision Information:** Revised Date: 9/03/2020

**SDS Distributed by:** Bio Huma Netics, Inc.

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