	SAFETY DATA SHEET			HG-160113-21			
NETICS	HUMA GRO® Zap®				HMIS		
					HEALTH	2	
						FLAMMABILI	TY 0
2 0						PHYSICAL HAZ	ARD 0
						PPE	С
\sim					L		
		CHEMICAL PRODUCT &	COMPA			N	
PRODUCT IDENTIFIER:	HUMA GRO	-		Product#	345		
SENERAL USE:		of a plant nutrition program.					
RODUCT DESCRIPTION:	A clear to hazy	v, brownish liquid having a ur	nique chara	acteristic odo	r.		
UPPLIER INFORMATION:	Bio Huma Ne 1331 W Hous Gilbert, AZ 85	ton Avenue		EM	ERGEN	CY PHONE NUI	MBERS
For Additional SDS cal	,			CHEMT	REC:	(In the USA) 800 (International) 70	
	S	SECTION 2: HAZARDS I	DENTIFI	CATION			
OVERVIEW: of CL SIG	ASSIFICATION: GNAL WORD: W	ENT: H303 - WARNING – m	on, cardiov MAY BE H, nay be harr	vascular and ARMFUL IF S	central n SWALLO wed	ervous system effe	
OVERVIEW: of CL SI HA	this product may ASSIFICATION: GNAL WORD: W AZARD STATEM RECAUTIONARY	cause gastrointestinal irritati HAZARD CATEGORY 5 - M /ARNING ENT: H303 - WARNING – m ′ STATEMENT: P312; Call a	on, cardiov //AY BE H, hay be harr poison ce	vascular and ARMFUL IF S nful if swallov nter/doctor/p	central n SWALLO wed hysician	ervous system effe WED if you feel unwell	
OVERVIEW: of CL SI HA	this product may ASSIFICATION: GNAL WORD: W AZARD STATEM RECAUTIONARY	cause gastrointestinal irritati HAZARD CATEGORY 5 - N ARNING ENT: H303 - WARNING – m	on, cardiov //AY BE H, hay be harr poison ce	vascular and ARMFUL IF S mful if swallov nter/doctor/p DN ON INGF	central n SWALLO wed hysician	ervous system effe WED if you feel unwell TS	ects.
OVERVIEW: of CL SIG	this product may ASSIFICATION: GNAL WORD: W AZARD STATEM RECAUTIONARY	cause gastrointestinal irritati HAZARD CATEGORY 5 - M /ARNING ENT: H303 - WARNING – m ′ STATEMENT: P312; Call a	on, cardiov //AY BE H, hay be harr poison ce	vascular and ARMFUL IF S nful if swallov nter/doctor/p	central n SWALLO wed hysician	ervous system effe WED if you feel unwell TS	
OVERVIEW: OVERVIEW: CL SI HA PF	this product may ASSIFICATION: GNAL WORD: W AZARD STATEM RECAUTIONARY SECTION 3	cause gastrointestinal irritati HAZARD CATEGORY 5 - N ARNING ENT: H303 - WARNING – m STATEMENT: P312; Call a : COMPOSITION & INFO	on, cardiov //AY BE H/ hay be harr poison ce DRMATIC	vascular and ARMFUL IF S nful if swallov nter/doctor/p DN ON INGF ACC	Central n SWALLO wed hysician REDIEN	ervous system effe WED if you feel unwell TS	SHA
OVERVIEW: of OVERVIEW: CL SI HA PF	this product may ASSIFICATION: GNAL WORD: W AZARD STATEM RECAUTIONARY SECTION 3 <u>CAS #</u>	 cause gastrointestinal irritati HAZARD CATEGORY 5 - N VARNING ENT: H303 - WARNING – m STATEMENT: P312; Call a COMPOSITION & INFO OSHA HAZARD Oxidizer; Eye, Skin & Respiratory Irritant; Blood toxin Eye Irritant; Slight to 	on, cardiov //AY BE H/ hay be harr poison ce DRMATIC <u>WT %</u>	vascular and ARMFUL IF S nful if swallov nter/doctor/p DN ON INGF ACC TLV _(TWA)	central n SWALLO wed hysician REDIEN BIH STEL	ervous system effe WED if you feel unwell TS O PEL _(TWA)	SHA STEL
OVERVIEW: OVERVIEW: CL SI HA PF	this product may ASSIFICATION: GNAL WORD: W AZARD STATEM RECAUTIONARY SECTION 3 <u>CAS #</u> 6484-52-2	 cause gastrointestinal irritati HAZARD CATEGORY 5 - N /ARNING ENT: H303 - WARNING – m STATEMENT: P312; Call a COMPOSITION & INFO OSHA HAZARD Oxidizer; Eye, Skin & Respiratory Irritant; Blood toxin 	on, cardiov //AY BE H/ nay be harr poison ce DRMATIC <u>WT %</u> 10 ± 2	ARMFUL IF S nful if swallov nter/doctor/p N ON INGF ACC TLV _(TWA) None	central n SWALLO wed hysician REDIEN SIH STEL None	ervous system effe WED if you feel unwell TS O PEL _(TWA) None	SHA STEL None
OVERVIEW: OVERVIEW: CL SI HA PF	this product may ASSIFICATION: GNAL WORD: W AZARD STATEM RECAUTIONARY SECTION 3 <u>CAS #</u> 6484-52-2	 cause gastrointestinal irritati HAZARD CATEGORY 5 - M /ARNING ENT: H303 - WARNING – m STATEMENT: P312; Call a COMPOSITION & INFO Oxidizer; Eye, Skin & Respiratory Irritant; Blood toxin Eye Irritant; Slight to Moderate Skin & Respiratory Irritant; Slightly Toxic by Chronic Dermal Contact & Inhalation, with Cardiovascular & Central 	on, cardiov //AY BE H/ nay be harr poison ce DRMATIC <u>WT %</u> 10 ± 2	ARMFUL IF S nful if swallov nter/doctor/p DN ON INGF ACC TLV (TWA) None None AIHA WEEL:	central n SWALLO wed hysician REDIEN SIH STEL None	ervous system effe WED if you feel unwell TS O PEL _(TWA) None	SHA STEL None

		SECTION 4: FIRST AID MEASURES					
INHALATION:		move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If e oxygen. Call a physician.					
EYE CONTACT		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 if irritation persists.					
SKIN CONTAC		skin with plenty of clean running water. Remove contaminated clothing and shoes and wash occurs and persists, get medical attention.					
INGESTION:		s product are swallowed, call a physician immediately. DO NOT induce vomiting unless dical personnel. Never give anything by mouth to an unconscious person.					
NOTE TO PHYSICIANS:	consideration should be central nervous system	nformation, this product is slightly toxic by ingestion. If a large amount is ingested, given to careful endoscopy as stomach or esophageal irritation may occur, with possible effects following absorption into the blood stream. Careful gastric lavage with an ce should be considered. Treat exposure symptomatically.					
	S	ECTION 5: FIRE FIGHTING MEASURES					
Flashpoint	and Method: This product of	does not flash.					
Flammable	Limits (in air, % by volume)	Lower: Not applicable Upper: Not applicable					
Autoignitio	n Temperature: Not Determ	nined					
GENERAL HAZ		ueous, very slightly acidic solution of organic and inorganic compounds with small amounts Uniform Fire Code health hazard classification for this product is: Irritant . It may produce sition products.					
FIRE FIGHTING	SINSTRUCTIONS:	EXTINGUISHING MEDIA: Water, foam, CO ₂ or dry chemicals. Use a water spray or fog to cool the containers exposed to the heat of a fire.					
FIRE FIGHTING	BEQUIPMENT:	Fire fighters should wear full protective equipment, including self-contained breathing apparatus.					
HAZARDOUS (COMBUSTION PRODUCTS:	When heated to dryness and decomposition, it emits toxic Ammonia gas, chloride compounds, carbon monoxide, carbon dioxide, phosphorus oxides, sulfur oxides and nitrogen oxides with trace or ultra-trace toxic oxide amounts, of, iron, manganese, magnesium, potassium, calcium, zinc, cobalt, boron and sodium plus irritating smoke.					
	SECT	ION 6: ACCIDENTAL RELEASE MEASURES					
RELEASE TO LAND:	or vacuum truck for disposusing sand, or commercial	otective equipment and clothing, dike the spill and pick up the bulk of the liquid using pumps usal in accordance with Federal, State and local regulations. Absorb the remaining liquid lly absorbent material; dispose as Federal, State and local requirements dictate. Flush the ct the rinsates for disposal as the regulations require.					
		is Ammonium Nitrate, an oxidizing fertilizer. Do not allow this concentrated product to dry in organic materials or reducing agents as a reaction may occur, releasing heat and possibly					
RELEASE TO WATER:		ective equipment and clothing if contact with hazardous material can occur. Stop or divert ated water and remove for disposal and/or treatment. As appropriate, notify all downstream nation.					
	S	SECTION 7: HANDLING AND STORAGE					
STORAGE TEM	MPERATURE: Ambient	STORAGE PRESSURE: Ambient					
GENERAL:	on skin or on clothing. Wear remists, vapors, fumes or aeroso	ated area away from incompatible materials and products. Do not get this product in eyes, recommended personnel protective equipment when handling this product. Do not breathe ols. Use only with adequate ventilation. Do not take internally. Keep the container tightly in thoroughly after handling this product.					

	SECTION 8: EXPOSURE CO	NTROLS / PERSONAL PROTEC	TION	
CONTROL MEASURES:	Use a local or general, mechanical exhaust ventilation system capable of maintaining emissions, in the work area, below the OSHA-PEL, ACGIH-TLV or levels that may cause irritation.			
RECOMMENDED PE	RSONAL PROTECTIVE EQUIPMENT			
RESPIRATOR:	Respiratory protection is not normally required. If use produces mists that may cause irritation, a NIOSH approved half mask or full facepiece respirator equipped with a good mist / particulate cartridge or supplied air is recommended. 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 permeation data when determining the su		ys consult the glove manufacturer's	
CLOTHING & EQUIPMENT:	If contact is likely, wear a Neoprene, Nitrile eye wash station and safety shower clothing/equipment manufacturer's perme use.	should be available in the work a	area. Note: Always consult the	
FOOTWEAR:	Wear Neoprene, Nitrile, Butyl Rubber or Neormeation data when determining the su		consult the footwear manufacturer's	
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES				
	SECTION 9: PHYSICAL	AND CHEMICAL PROPERTIES		
Appearance:	SECTION 9: PHYSICAL Clear to hazy, brownish	AND CHEMICAL PROPERTIES Bulk Density (pounds/ft ³):	Not applicable	
Appearance: Physical State:				
	Clear to hazy, brownish	Bulk Density (pounds/ft3):	Not applicable	
Physical State:	Clear to hazy, brownish Liquid	Bulk Density (pounds/ft³): Vapor Pressure:	Not applicable No data available	
Physical State: Odor:	Clear to hazy, brownish Liquid Unique, characteristic	Bulk Density (pounds/ft ³): Vapor Pressure: Vapor Density (air=1):	Not applicable No data available No data available	
Physical State: Odor: Odor Threshold:	Clear to hazy, brownish Liquid Unique, characteristic No data available	Bulk Density (pounds/ft ³): Vapor Pressure: Vapor Density (air=1): Evaporation Rate (n-Butyl Acetate=1):	Not applicable No data available No data available Less than 1	
Physical State: Odor: Odor Threshold: Molecular Formula:	Clear to hazy, brownish Liquid Unique, characteristic No data available Mixture	Bulk Density (pounds/ft³): Vapor Pressure: Vapor Density (air=1): Evaporation Rate (n-Butyl Acetate=1): VOC Content:	Not applicableNo data availableNo data availableLess than 1Nil	
Physical State: Odor: Odor Threshold: Molecular Formula: Molecular Weight:	Clear to hazy, brownish Liquid Unique, characteristic No data available Mixture Not applicable Greater than 100° C. (212° F.)	Bulk Density (pounds/ft³):Vapor Pressure:Vapor Density (air=1):Evaporation Rate (n-Butyl Acetate=1):VOC Content:% Volatile:	Not applicableNo data availableNo data availableLess than 1NilApproximately 64	
Physical State: Odor: Odor Threshold: Molecular Formula: Molecular Weight: Boiling Point:	Clear to hazy, brownish Liquid Unique, characteristic No data available Mixture Not applicable Greater than 100° C. (212° F.)	Bulk Density (pounds/ft³):Vapor Pressure:Vapor Density (air=1):Evaporation Rate (n-Butyl Acetate=1):VOC Content:% Volatile:Solubility in H₂O:	Not applicableNo data availableNo data availableLess than 1NilApproximately 64Soluble	
Physical State: Odor: Odor Threshold: Molecular Formula: Molecular Weight: Boiling Point: Freezing/Melting Point:	Clear to hazy, brownish Liquid Unique, characteristic No data available Mixture Not applicable Greater than 100° C. (212° F.) Less than 0° C. (32° F.) 1.15 – 1.20 @ 20° C.	Bulk Density (pounds/ft³):Vapor Pressure:Vapor Density (air=1):Evaporation Rate (n-Butyl Acetate=1):VOC Content:% Volatile:Solubility in H2O:Octanol/Water Partition Coefficient:	Not applicableNo data availableNo data availableLess than 1NilApproximately 64SolubleNo data available	
Physical State: Odor: Odor Threshold: Molecular Formula: Molecular Weight: Boiling Point: Freezing/Melting Point: Specific Gravity:	Clear to hazy, brownish Liquid Unique, characteristic No data available Mixture Not applicable Greater than 100° C. (212° F.) Less than 0° C. (32° F.) 1.15 – 1.20 @ 20° C. Approximately 9.8	Bulk Density (pounds/ft³):Vapor Pressure:Vapor Density (air=1):Evaporation Rate (n-Butyl Acetate=1):VOC Content:% Volatile:Solubility in H2O:Octanol/Water Partition Coefficient:pH (as is):	Not applicableNo data availableNo data availableLess than 1NilApproximately 64SolubleNo data available5.5 - 6.5	
Physical State: Odor: Odor Threshold: Molecular Formula: Molecular Weight: Boiling Point: Freezing/Melting Point: Specific Gravity: Density (pounds/gallon):	Clear to hazy, brownish Liquid Unique, characteristic No data available Mixture Not applicable Greater than 100° C. (212° F.) Less than 0° C. (32° F.) 1.15 – 1.20 @ 20° C. Approximately 9.8	Bulk Density (pounds/ft³): Vapor Pressure: Vapor Density (air=1): Evaporation Rate (n-Butyl Acetate=1): VOC Content: % Volatile: Solubility in H2O: Octanol/Water Partition Coefficient: pH (as is): pH (1% solution): BILITY AND REACTIVITY	Not applicableNo data availableNo data availableLess than 1NilApproximately 64SolubleNo data available5.5 - 6.5	
Physical State: Odor: Odor Threshold: Molecular Formula: Molecular Weight: Boiling Point: Freezing/Melting Point: Specific Gravity: Density (pounds/gallon):	Clear to hazy, brownish Liquid Unique, characteristic No data available Mixture Not applicable Greater than 100° C. (212° F.) Less than 0° C. (32° F.) 1.15 – 1.20 @ 20° C. Approximately 9.8 SECTION 10: STA product is stable and hazardous polymeriza	Bulk Density (pounds/ft³): Vapor Pressure: Vapor Density (air=1): Evaporation Rate (n-Butyl Acetate=1): VOC Content: % Volatile: Solubility in H2O: Octanol/Water Partition Coefficient: pH (as is): pH (1% solution): BILITY AND REACTIVITY	Not applicableNo data availableNo data availableLess than 1NilApproximately 64SolubleNo data available5.5 - 6.5No data available	
Physical State: Odor: Odor Threshold: Molecular Formula: Molecular Weight: Boiling Point: Freezing/Melting Point: Specific Gravity: Density (pounds/gallon): GENERAL: This	Clear to hazy, brownish Liquid Unique, characteristic No data available Mixture Not applicable Greater than 100° C. (212° F.) Less than 0° C. (32° F.) 1.15 – 1.20 @ 20° C. Approximately 9.8 SECTION 10: STA Do not store this product below	Bulk Density (pounds/ft³): Vapor Pressure: Vapor Density (air=1): Evaporation Rate (n-Butyl Acetate=1): VOC Content: % Volatile: Solubility in H₂O: Octanol/Water Partition Coefficient: pH (as is): pH (1% solution): BILITY AND REACTIVITY tion will not occur. w 50° F (10° C) or above 90° F (30° C)	Not applicableNo data availableNo data availableLess than 1NilApproximately 64SolubleNo data available5.5 - 6.5No data available	

oxides of carbon, phosphorus, nitrogen, sulfur and potassium with trace or ultra-trace toxic oxide amounts, of, iron, manganese, magnesium, calcium, zinc, copper and sodium plus irritating smoke.

SENSITIVITY TO MECHANICAL IMPACT: This product is <u>not</u> sensitive to mechanical impact.

SENSITIVITY TO STATIC DISCHARGE: This product is <u>not</u> sensitive to static discharge.

SECTION 11: TOXICOLOGICAL INFORMATION					
Components:	Ammonium Nitrate	<u>Urea</u>			
Eye Contact:	No data available	No data available			
Skin Contact:	No data available	No data available			
Oral Rat LD ₅₀ :	2,217 mg/kg	8,471 mg/kg			
Dermal Rabbit LD ₅₀ :	No data available	No data available (Rabbit, Subcutaneous LD_{Lo} : 3 gm/kg)			
Inhalation Rat LC₅₀:	No data available	No data available (Rat, Inhalation, Chronic – Multiple Dose, 288 mg/m ³ /17 weeks; Toxic effects: Kidney, Ureter & Bladder – Other changes in urine composition; Blood – Other changes; Nutritional and gross metabolic changes.)			
Human Data:	No data available	Dermal Human Standard Draize Test: 22 mg/3 days; Mild			
Other Toxicological Data:	No data available	Rat, Dermal, Chronic – Multiple Dose, 3,024 mg/kg/4 weeks; Toxic effects: Liver – Changes in Liver weight; Endocrine – Changes in Thymus weight; Death.			
Carcinogenicity:	No data available	Oral Rat TD _{Lo} : 821 gm/kg/1 year; Tumorigenic – Neoplastic by RTECS criteria; Blood – Tumors; Blood – Lymphomax including Hodgkin's disease.			
Teratogenicity:	No data available	Intraplacental Woman TD _{Lo} : 1,400 mg/kg (female 16 Weeks pregnant); Effects on Fertility - Abortion			
Mutagenicity:	No data available	Human DNA Inhibition; lymphocyte: 600 mmol/Liter			
Synergistic Products:	None reported	None reported			
Target Organs:	Eyes, Skin, Mucous membranes, Lungs & Blood	Eyes, Skin, Mucous membranes, Lungs, Cardiovascular & Central Nervous Systems			
Medical Conditions Aggravated By Exposure:	Skin or Respiratory disorders	Skin, Respiratory or Cardiac disorders			
Components:	Diammonium Phosphate	Ammonium Sulfate			
Eye Contact:	No data available	No data available			
Skin Contact:	No data available	No data available			
Oral Rat LD ₅₀ :	Greater than 1,000 mg/kg	2,840 mg/kg			
Dermal Rabbit LD ₅₀ :	No data available	No data available			
Inhalation Rat LC ₅₀ :	No data available	No data available			
Human Data:	No data available	Oral Man TD _{Lo} : 1,500 mg/kg (Gastrointestinal effects)			
Other Toxicological Data:	No data available	Intraperitoneal Mouse LD_{50} : 610 mg/kg			
Carcinogenicity:	No data available	No data available			
Teratogenicity:	No data available	No data available			
Mutagenicity:	No data available	No data available			
Synergistic Products:	None reported	None reported			
Target Organs:	Eyes, Skin, Lungs & Central Nervous System	Eyes, Skin, Mucous membranes, Lungs & Central Nervous System			
Medical Conditions Aggravated By Exposure:	Skin or Respiratory disorders	Skin or Respiratory disorders			

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:

This product is soluble in water and is not expected to affect the pH of water. No specific environmental fate data is available.

ENVIRONMENTAL CONSIDERATIONS:

The aquatic toxicity for this product has not been determined.

SECTION 13: DISPOSAL CONSIDERATIONS

RCRA 40 CFR 261 CLASSIFICATON:

Non-RCRA Hazardous Waste (United States) Not Applicable

U.S. EPA WASTE NUMBER/DESCRIPTION:

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	4: TRANSPOR	RTATION INFORMATION		
DOT PROPER SHIPPING NAME:	Not DOT Regulate	d			
	Hazard Class:	Not applicable	N/A UN Number:	Packing Group:	N/A
	Primary Label:	None Required	Subsidiary Label(s):	None Required	
	Primary/Subsidia	ary Placards:	None Required		
DOT Reportable Quantity (RQ):	Not listed		RQ for Product: Not appli	cable	
Marine Pollutant:	No				
2012 North American Emergency R	esponse Guidebook No	o.: No	t applicable		
TDG PROPER SHIPPING NAME:	NOT RESTRICTED				
	Hazard Class:	Not applicable	UN Number: N/A	Packing Group:	N/A
	Primary Label:	None Required	Subsidiary Label(s):	None Required	
	Primary/Subsidia	ary Placards:	None Required		
TDG Reportable Quantity (RQ): *	Not applicable				
TDG Schedule XII:	Not applicable				
Regulated Limit (RL): **	Not listed		RL for Product: Not appli	cable	
Other Shipping Information:	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:	Ammonium Nitrate	<u>Urea</u>	<u>Diammonium</u> Phosphate	Ammonium Sulfate
OSHA Target Organs:	Eyes, Skin, Mucous membranes, Lungs & Blood	Eyes, Skin, Mucous membranes, Lungs, Cardiovascular & Central Nervous Systems	Eyes, Skin, Lungs & Central Nervous System	Eyes, Skin, Mucous membranes, Lungs & Central Nervous System
Carcinogenic Potential:				
Regulated by OSHA:	No	No	No	No
Listed on NTP Report:	No	No	No	No
Listed by IARC:	No	No	No	No
IARC Group:	Not applicable	Not applicable	Not applicable	Not applicable
ACGIH Appendix A:	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)				
Listed Substance:	Not listed	Not listed	Not listed	Not listed
Reportable Quantity:	Not applicable	Not applicable	Not applicable	Not applicable
Category:	Not applicable	Not applicable	Not applicable	Not applicable
RCRA Waste No.:	Not applicable	Not applicable	Not applicable	Not applicable
Unlisted Substance:	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

SECTION 15: REGULATORY INFORMATION (Continued from Page 5)					
COMPONENTS:	Ammonium Nitrate Ure	ea <u>Di</u>		Ammonium Sulfate	
SARA TITLE III Section 302 & 303 (40 C Listed Substance: Reportable Quantity: Planning Threshold:	Not listed Not Not Not applicable Not	t applicable No	ot applicable	Not listed Not applicable Not applicable	
Section 311 & 312 (40 C Hazard Categories (pro Planning threshold:	oduct): Fire: <u>N</u> Sudden Release of I			Chronic Health: <u>N</u> 10,000 pounds	
Section 313 (40 CFR 37) Listed Toxic Chemica		t listed Ye	es (Aqua Ammonia)	Yes (Aqua Ammonia)	
Reporting Threshold:	10,000 pounds Not	t applicable 10),000 pounds	10,000 pounds	
U.S. TSCA Status Listed (40 CFR 710):	Yes Yes	s Ye	es	Yes	
State Regulations State of California: Safe Carcinogen: Reproductive Toxin:	e Drinking Water and Toxins Enforcement Ac No No No No	No		No No	
Other Regulations State Right To Know La	ws: NJ				
Canadian Regulation Product Information: Controlled Product: WHMIS Hazard Symbo WHMIS Class & Divisio	Yes Is: Material Causing Other Toxic Effe	ects			
Ingredient Information: IDL Substance: DSL or NDSL Lists:	No No DSL DS			No DSL	
	SECTION 16: C	THER INFORMATION	N		
EPA Registration num	ber: Not applicable				
Approved Product Use	es: Used as part of a plant nutrition pr	ogram.			
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: Store Zap in a cool, dry, well ventilated, area away from incompatible materials and products. When making dilutions, always add this product to water, or aqueous solutions, with adequate mixing to ensure a uniform solution. Do not add strong alkali or caustics to this product, as that will liberate toxic, corrosive Ammonia gas.					
SDS Revision Information: Revised Date: 11/19/15					
MSDS Distributed by:		Data Dran create	tab as 04, 0014		
	S. Pidgeon, EHS Director		tober 21, 2014	pototion for which Dia Liver-	
i nis iviaterial Safety Data	Sheet is provided as an information resource	only. It should not be taker	n as a warranty or represe	entation for which Bio Huma	

This Material Safety Data Sheet is provided as an information resource only. It should not be taken as a warranty or representation for which Bio Huma Netics assumes legal liability. While Bio Huma Netics believes the information contained herein is accurate and compiled from sources believed to be reliable, it is the responsibility of the user to investigate and verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with applicable federal, state, and local regulations.