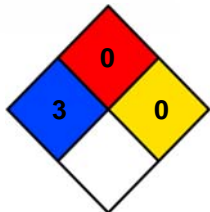




SAFETY DATA SHEET HUMA GRO® Breakout

REV D 11/19/15
HG-160113-03



HMIS	
HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PPE	D

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT IDENTIFIER:	HUMA GRO® Breakout	Product# 175
GENERAL USE:	Used as a part of a plant nutrition program.	
PRODUCT DESCRIPTION:	A clear to slightly hazy, dark brown liquid having a slight characteristic odor.	
SUPPLIER INFORMATION:	Bio Huma Netics 1331 W Houston Avenue Gilbert, AZ 85233	EMERGENCY PHONE NUMBERS
For Additional SDS call:	PHONE: (480) 961-1220	CHEMTREC: (In the USA) 800-424-9300 (International) 703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

HAZARDS OVERVIEW:

A clear to slightly hazy, dark brown, acidic liquid having a slight characteristic odor. The liquid may be severely irritating or corrosive to all tissues contacted. Exposure to this product's mists may cause severe irritation or burns to the eyes, skin and respiratory tract. Ingestion may cause damage to the gastrointestinal tract. **The NIOSH I. D. L. H. for Phosphoric Acid is: 1,000 mg/m³**



CLASSIFICATION: SKIN CORROSION – CATEGORY 1A

SIGNAL WORD: DANGER

HAZARD STATEMENT: H314; causes severe skin burns and eye damage

PRECAUTIONARY STATEMENT: P260; Do not breathe dusts/mist/vapors. P280; Wear protective gloves/protective clothing/eye protection/face protection P264; Wash hands thoroughly after handling

SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS

COMPONENT	CAS #	OSHA HAZARD	WT %	ACGIH		OSHA	
				TLV _(TWA)	STEL	PEL _(TWA)	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.	11 ± 2	None	None	None	None
				AIHA WEEL: 10 mg/m ³			
Monopotassium Phosphate	7778-77-0	Eye, Ski & Respiratory Irritant	10 ± 2	None	None	None	None
Phosphoric Acid	7664-38-2	Corrosive; Lung Toxin	4 ± 1	1 mg/m ³	3 mg/m ³	1 mg/m ³	None
Ammonium Sulfate	7783-20-2	Eye, Ski & Respiratory Irritant	4 ± 1	None	None	None	None
Monoammonium Phosphate	7722-76-1	Eye, Ski & Respiratory Irritant	3 ± 1	None	None	None	None
Proprietary (Trade Secret) Component		Oxidizer; Lung toxin; IARC – Suspected Carcinogen	2 ± 1	1 ppm (A3)	None	1 ppm	None

NDA = No Data Available

N/A = Not Applicable

SECTION 4: FIRST AID MEASURES

INHALATION:	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.
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 immediately.
SKIN CONTACT:	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.
INGESTION:	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.
NOTE TO PHYSICIANS:	Phosphoric Acid has a low oral toxicity, but it can 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 burns, perforations or strictures may occur. Careful gastric lavage with an endotracheal tube in place should be considered. Treat exposure symptomatically.

SECTION 5: FIRE FIGHTING MEASURES

Flashpoint and Method:	This product does not flash.		
Flammable Limits (in air, % by volume)	Lower: Not applicable	Upper: Not applicable	
Autoignition Temperature:	Not applicable		
GENERAL HAZARD:	This product is an aqueous, acidic solution of organic and inorganic compounds. This product is not combustible, but it may generate flammable / explosive Hydrogen gas on contact with Aluminum and some other metals. The Uniform Fire Code health hazard classification for this product is: Corrosive (Acidic) . Dilute solutions of this product may also be corrosive. It may produce hazardous decomposition products.		
FIRE FIGHTING INSTRUCTIONS:	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 EQUIPMENT:	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, carbon monoxide, carbon dioxide, phosphorus oxides, nitrogen oxides, sulfur oxides, potassium oxide, zinc oxide and boron oxide with trace or ultra-trace toxic oxide amounts, of, iron, manganese, magnesium, calcium and sodium.		

SECTION 6: ACCIDENTAL RELEASE MEASURES

RELEASE TO LAND:	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 commercial absorbent. Place in approved containers for recovery, disposal, or satellite accumulation. Neutralize the acidity, of the remaining liquid, using lime, Sodium Bicarbonate, or other agent appropriate for neutralizing acidic liquids, that will not liberate large amounts of Ammonia gas. Flush the spill area with water; collect the rinsates for disposal or sewer, as appropriate. If Ammonia gas is being liberated from a spill, then an inhalation hazard is present. When an inhalation hazard is indicated, respiratory equipment (a full facepiece respirator with an Ammonia gas cartridge or supplied air) is required during the clean-up of the spill.
RELEASE TO WATER:	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

STORAGE TEMPERATURE:	Ambient	STORAGE PRESSURE:	Ambient
GENERAL:	Store in a cool, dry, well-ventilated area, away from incompatible materials and products. Protect eyes, skin and clothing from contact with product. Wear recommended personal protective equipment when handling this product. Avoid breathing vapors or mists. Use with adequate ventilation. Do not take internally. Keep the container tightly closed when not in use. Wash thoroughly 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, above the ACGIH-TLV, OSHA-PEL, AIHA WEEL or levels that may cause irritation.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

RESPIRATOR: For exposure above the ACGIH-TLV, AIHA-WEEL or OSHA-PEL, wear a NIOSH-approved full facepiece or half mask air-purifying cartridge respirator equipped with a good mist / particulate filter 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 face 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. **Note:** Always consult the glove manufacturer's permeation data when determining the suitability of gloves prior to use.

CLOTHING & EQUIPMENT: Wear a Neoprene, Nitrile, Butyl Rubber or Natural Rubber apron, or full protective clothing 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: 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

Appearance:	Clear to slightly hazy, dark brown	Bulk Density (pounds/ft³):	Not applicable
Physical State:	Liquid	Vapor Pressure:	No data available
Odor:	Slight, characteristic	Vapor Density (air=1):	No data available
Odor Threshold:	No data available	Evaporation Rate (n-Butyl Acetate=1):	Less than 1
Molecular Formula:	Mixture	VOC Content:	Nil
Molecular Weight:	Not applicable	% Volatile:	Approximately 63
Boiling Point:	Greater than 100° C. (212° F.)	Solubility in H₂O:	Soluble
Freezing/Melting Point:	Less than 0° C. (32° F.)	Octanol/Water Partition Coefficient:	No data available
Specific Gravity:	1.29 – 1.39 @ 20° C.	pH (as is):	1.7 to 2.7
Density (pounds/gallon):	Approximately 11.1	pH (1% solution):	No data available

SECTION 10: STABILITY AND REACTIVITY

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

CONDITIONS TO AVOID: Do not store this product below 50° F (10° C) or above 90° F (30° C)

INCOMPATIBLE MATERIAL: Strong alkali & caustics, reducing agents, oxidizers, Aluminum, Magnesium, Zinc and alloys of these metals

HAZARDOUS DECOMPOSITION PRODUCTS: When heated to dryness and decomposition, it emits toxic Ammonia gas, with toxic oxides of carbon, phosphorus, nitrogen, sulfur, potassium, zinc and boron plus trace or ultra-trace toxic oxide amounts, of, iron, manganese, magnesium, calcium and sodium.

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>Monopotassium Phosphate</u>
Eye Contact:	No data available	No data available
Skin Contact:	No data available	No data available
Oral Rat LD₅₀:	8,471 mg/kg	No data available (Oral Rat LD _{Lo} : 4,640 mg/kg)
Dermal Rabbit LD₅₀:	No data available (Rabbit, Subcutaneous LD _{Lo} : 3 gm/kg)	Greater than 4,640 mg/kg
Inhalation Rat LC₅₀:	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.)	No data available
Human Data:	Human: 22 mg/3 days; Mild	No data available
Other Toxicological Data:	Rat, Dermal, Chronic – Multiple Dose, 3,024 mg/kg/4 weeks; Toxic effects: Liver – Changes in Liver weight; Endocrine – Changes in Thymus weight; Death.	No data available
Carcinogenicity:	Oral Rat TD _{Lo} : 821 gm/kg/1 year; Tumorigenic – Neoplastic by RTECS criteria; Blood – Tumors; Blood – Lymphomax including Hodgkin's disease.	No data available
Teratogenicity:	Intraplacental Woman TD _{Lo} : 1,400 mg/kg (female 16 Weeks pregnant); Effects on Fertility - Abortion	No data available
Mutagenicity:	Human DNA Inhibition; lymphocyte: 600 mmol/Liter	No data available
Synergistic Products:	None reported	None reported
Target Organs:	Eyes, Skin, Mucous membranes, Lungs, Cardiovascular & Central Nervous Systems	Eyes, Skin & Lungs
Medical Conditions Aggravated By Exposure:	Skin, Respiratory or Cardiac disorders	Skin or Respiratory disorders
Components:	<u>Phosphoric Acid</u>	<u>Ammonium Sulfate</u>
Eye Contact:	Rabbit: 119 mg; Severe	No data available
Skin Contact:	Rabbit: 595 mg/24 hours; Severe	No data available
Oral Rat LD₅₀:	1,530 mg/kg	2,840 mg/kg
Dermal Rabbit LD₅₀:	2,740 mg/kg	No data available
Inhalation Rat LC₅₀:	Greater than 850 mg/m ³ /1 hour	No data available
Human Data:	Unreported Route Man LD _{Lo} : 220 mg/kg	Oral Man TD _{Lo} : 1,500 mg/kg (Gastrointestinal effects)
Other Toxicological Data:	Oral Man TD _{Lo} : 1,286 uL/kg	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, Mucous membranes, Lungs & Gastrointestinal tract	Eyes, Skin, Mucous membranes, Lungs & Central Nervous System
Medical Conditions Aggravated By Exposure:	Skin, Respiratory or Gastrointestinal disorders	Skin or Respiratory disorders

SECTION 11: TOXICOLOGICAL INFORMATION (Continued from Page 4)

Components:	<u>Monoammonium Phosphate</u>	<u>Proprietary Component</u>
Eye Contact:	No data available	No data available
Skin Contact:	No data available	No data available
Oral Rat LD ₅₀ :	5,750 mg/kg	1,518 mg/kg (8 – 20% solution)
Dermal Rabbit LD ₅₀ :	Greater than 7,940 mg/kg	No data available
Inhalation Rat LC ₅₀ :	No data available	2 gm/m ³ /4 hours
Human Data:	No data available	Oral Man LD _{Lo} : 1,429 mg/kg (30% solution)
Other Toxicological Data:	No data available	Dermal Rat LD ₅₀ : 4,060 mg/kg (90% solution)
Carcinogenicity:	No data available	Oral Mouse TD _{Lo} : 622 gm/kg/2 Years-Continuous; Tumorigenic – Carcinogenic by RTECS criteria; Gastrointestinal - Tumors (30% solution)
Teratogenicity:	No data available	No data available
Mutagenicity:	No data available	Human DNA Damage; lymphocyte: 9 umol/Liter
Synergistic Products:	None reported	None reported
Target Organs:	Eyes, Skin, Lungs & Central Nervous System	Eyes, Skin, Mucous membranes, Lungs, Gastrointestinal tract & Central Nervous System
Medical Conditions		
Aggravated By Exposure:	Skin or Respiratory disorders	Skin, Respiratory or Gastrointestinal disorders

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:

This product is soluble in water and may significantly affect the pH of water. No specific environmental fate data is available.

ENVIRONMENTAL CONSIDERATIONS:

The aquatic toxicity for this product is related to the pH of the water. For Rainbow trout, the reported LC₅₀ 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

DOT PROPER SHIPPING NAME:	Phosphoric Acid, Solution	UN Number:	UN1805	Packing Group:	III
	Hazard Class: 8				
	Primary Label: Corrosive	Subsidiary Label(s):	None		
	Primary/Subsidiary Placards:	Corrosive			
DOT Reportable Quantity (RQ):	5,000 lbs. (H3PO4)	RQ for Product:	125,000 lbs. (11,505 gal.)		
Marine Pollutant:	No				
2012 North American Emergency Response Guidebook No.:	154				
TDG PROPER SHIPPING NAME:	Phosphoric Acid, Liquid	UN Number:	UN1805	Packing Group:	III
	Hazard Class: 8				
	Primary Label: Corrosive	Subsidiary Label(s):	None		
	Primary/Subsidiary Placards:	Corrosive			
TDG Reportable Quantity (RQ): *	At least 5kg or 5 liters				
TDG Schedule XII:	Not listed				
Regulated Limit (RL): **	230kg (H3PO4)	RL for Product:	5,750kg (4,416 liters)		
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:	<u>Urea</u>	<u>Monopotassium Phosphate</u>	<u>Phosphoric Acid</u>	<u>Ammonium Sulfate</u>
<u>OSHA Target Organs:</u>	Eyes, Skin, Mucous membranes, Lungs, Cardiovascular & Central Nervous Systems	Eyes, Skin & Lungs	Eyes, Skin, Mucous membranes, Lungs & Gastrointestinal tract	Eyes, Skin, Mucous membranes, Lungs & Central Nervous System
<u>Carcinogenic Potential:</u>				
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	Yes	Not listed
Reportable Quantity:	Not applicable	Not applicable	5,000 pounds	Not applicable
Category:	Not applicable	Not applicable	D	Not applicable
RCRA Waste No.:	Not applicable	Not applicable	Not listed	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

SARA TITLE III

Section 302 & 303 (40 CFR 355):

Listed Substance:	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 15: REGULATORY INFORMATION (Continued from Page 6)

COMPONENTS:	<u>Urea</u>	<u>Monopotassium Phosphate</u>	<u>Phosphoric Acid</u>	<u>Ammonium Sulfate</u>	
Section 311 & 312 (40 CFR 370):					
Hazard Categories (product):	Fire: <u>N</u>	Sudden Release of Pressure: <u>N</u>	Reactive: <u>N</u>	Acute Health: <u>Y</u>	Chronic Health: <u>N</u>
Planning threshold:	10,000 pounds	10,000 pounds	10,000 pounds	10,000 pounds	10,000 pounds
Section 313 (40 CFR 372):					
Listed Toxic Chemical:	Not listed	Not listed	No (Delisted in June 2000)	Yes (Aqua Ammonia)	
Reporting Threshold:	Not applicable	Not applicable	Not applicable	10,000 pounds	

U.S. TSCA Status

Listed (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
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Canadian Regulations

Product Information:

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

Ingredient Information:

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

COMPONENTS:	<u>Monoammonium Phosphate</u>	<u>Proprietary Component</u>
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<u>OSHA Target Organs:</u>	Eyes, Skin, Lungs & Central Nervous System	Eyes, Skin, Mucous membranes, Lungs, Gastrointestinal tract & Central Nervous System
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Carcinogenic Potential:

Regulated by OSHA:	No	No
Listed on NTP Report:	No	No
Listed by IARC:	No	Yes
IARC Group:	Not applicable	Group 3
ACGIH Appendix A:	Not listed	Yes (A3)
A1 Confirmed Human:	Not applicable	Not applicable
A2 Suspected Human:	Not applicable	Not applicable

U.S. EPA Requirements

Release Reporting

CERCLA (40 CFR 302)

Listed Substance:	Not listed	Not listed
Reportable Quantity:	Not applicable	Not applicable
Category:	Not applicable	Not applicable
RCRA Waste No.:	Not applicable	Not applicable

Unlisted Substance:	Not applicable	Yes
Reportable Quantity:	Not applicable	100 pounds
Characteristic:	Not applicable	Reactivity
RCRA Waste No.:	Not applicable	D001

SECTION 15: REGULATORY INFORMATION (continued from page 7)

COMPONENTS:	<u>Monoammonium Phosphate</u>	<u>Proprietary Component</u>
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SARA TITLE III

Section 302 & 303 (40 CFR 355):

Listed Substance:	Not listed	Not listed
Reportable Quantity:	Not applicable	Not applicable
Planning Threshold:	Not applicable	Not applicable

Section 311 & 312 (40 CFR 370):

Planning threshold:	10,000 pounds	10,000 pounds
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Section 313 (40 CFR 372):

Listed Toxic Chemical:	Yes (Aqua Ammonia)	Not listed
Reporting Threshold:	10,000 pounds	Not applicable

U.S. TSCA Status

Listed (40 CFR 710):	Yes	Yes
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State Regulations

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

Carcinogen:	No	No
Reproductive Toxin:	No	No

Other Regulations

State Right To Know Laws: MA, NJ, PA

Canadian Regulations

Product Information:

Controlled Product:	Yes	
WHMIS Hazard Symbols:	Corrosive Material	
WHMIS Class & Division:	E	

Ingredient Information:

IDL Substance:	No	Yes
DSL or NDSL Lists:	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:

Store Breakout in a cool, dry, well-ventilated area away from incompatible materials and products. Do not add this product to strong alkali or caustic materials, as this will liberate a large amount of heat and toxic, corrosive Ammonia gas.

SDS Revision Information: Revised Date: 11/19/15

SDS Distributed by: Bio Huma Netics

Prepared By: Frank S. Pidgeon, EHS Director	Date Prepared: October 20, 2014
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