

SAFETY DATA SHEET HUMA GRO® Base Pro

HMIS			
HEALTH	1		
FLAMMABILITY	0		
PHYSICAL HAZARD	0		
PPE	Α		

	0					PHY	SICAL HAZA	RD	0	
	×					PPE			Α	
\checkmark	SECTION	1: CHEMICAL PRO	DDUCT &	COMPA	NY IDENTI	FICATION				
PRODUCT IDENTIFIER:	HUMA GRO® Base	e Pro		Product#	¥ 017					
GENERAL USE:	Used as a part of a pla	ant nutrition program.	R							
PRODUCT DESCRIPTION:	A clear to hazy brown	, liquid having no chara	acteristic oc	dor.						
SUPPLIER INFORMATION:	Bio Huma Netics, 1331 W Houston A Gilbert, AZ 85233			EN	IERGENC	Y PHONE NU	MBERS			
For Additional SI call:		1-1220		CHEM.		n the USA) 80 03-527-3887	0-424-9300	(Internat	tiona	I)
		SECTION 2: HA	ZARDS I	DENTIFIC	CATION					
HAZARDS OVERVIEW:	A clear to hazy brown, m eyes and the skin, with s Ingestion of this product system effects.	some blue tinting of the	e skin. Inh	alation of	mists may b	be irritating to the	ne entire res	piratory	tract.	
	SIGNAL WORD: WARN HAZARD STATEMENT: PRECAUTIONARY STA CLASSIFICATION: HAZ SIGNAL WORD: WARN HAZARD STATEMENT: PRECAUTIONARY STA	H303 - WARNING – m TEMENT: P312; Call a ZARD CATEGORY 3 - ING H316 - WARNING - ca	a poison ce MILD SKIN auses mild	nter/docto I IRRITAT skin irritati	r/physician i ION on					
	SECTION	N 3: COMPOSITION								
						GIH	0	SHA		
<u>COMPONENT</u>	<u>CAS #</u>	OSHA HAZARD		<u>WT %_</u>	TLV _(TWA)	STEL	PEL _(TWA)	STEL		
Urea	57-13-6		Slight to kin &	6 ± 1	None	None	None	None		
		Respiratory Irritar Toxic by Chroni Contact & Inhala Cardiovascular & Nervous System	nt; Slightly ic Dermal ation, with & Central		AIHA WEEL: 10 mg/m ³					
Phosphoric Acid	7664-38	-2 Corrosive; Lung	Toxin	5 ± 1	1 mg/m ³	3 mg/m ³	1 mg/m ³	None		
						= No Data Available	• N/A = N			

SECTION 4: FIRST AID MEASURES						
INHALATION:		whove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If ve 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 CONTACT:		h skin with plenty of clean running water. Remove contaminated clothing and shoes and wash n occurs and persists, get medical attention.				
INGESTION:		his product are swallowed, call a physician immediately. DO NOT induce vomiting unless edical personnel. Never give anything by mouth to an unconscious person.				
NOTE TO PHYSICIANS:	consideration should be central nervous system	information, this product may be slightly toxic by ingestion. If a large amount is ingested, be given to careful endoscopy as stomach or esophageal irritation may occur, with possible m effects following absorption into the blood stream. Careful gastric lavage with an lace should be considered. Treat exposure symptomatically.				
	SI	ECTION 5: FIRE FIGHTING MEASURES				
Flashpoint and	Method: This product	t does not flash.				
Flammable Lin	nits (in air, % by volume)	Lower: Not applicable Upper: Not applicable				
Autoignition T	emperature: Not applic	cable				
GENERAL HAZAR		equeous, moderately alkaline solution of organic and inorganic compounds. The Uniform Fire I classification for this product is: Irritant . It may produce hazardous decomposition products.				
FIRE FIGHTING IN	STRUCTIONS:	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 E	IRE FIGHTING EQUIPMENT: Fire fighters should wear full protective equipment, including self-contained breathing apparatus.					
HAZARDOUS COI	HAZARDOUS COMBUSTION PRODUCTS: When heated to dryness and decomposition, it emits toxic Ammonia gas, with toxic carbon monoxide, carbon dioxide, phosphorus oxides and nitrogen oxides with trace or ultra-trace toxic oxide amounts, of iron, manganese, magnesium, potassium, sulfur, calcium, zinc and sodium.					
	SECTI	TION 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 commercially absorbent material. Place in approved containers for recovery, disposal, or satellite accumulation. Neutralize the alkalinity, of the remaining liquid, using a dilute acid solution appropriate for neutralizing alkaline liquids. Liberally cover the spill area with sodium bicarbonate. Flush the spill area with water; collect the rinsates for disposal or sewer, as appropriate.						
RELEASE TO WATER:		tective equipment and clothing if contact with hazardous material can occur. Stop or divert nated water and remove for disposal and/or treatment. As appropriate, notify all downstream innation.				
SECTION 7: HANDLING AND STORAGE						
STORAGE TEMPERATURE: Ambient STORAGE PRESSURE: Ambient						
GENERAL:	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.					

			NIKULS / PERSUNAL PROTEC	nen		
CONTROL MEASURES:						
RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT						
RESPIRATOR:						
EYES:			by ANSI Z87.1-1979), unless a full fa anufacturer's data when determining t			
GLOVES:			Natural Rubber gloves. Note: Alway itability of gloves prior to use.	s consult the glove manufacturer's		
CLOTHING & EQUIPMENT:	and safety shower should	be availab	r Natural Rubber apron when handling le in the work area. Note: Alway rermining the suitability of clothing/equ	s consult the clothing/equipment		
FOOTWEAR:	Wear Neoprene, Nitrile, Buty permeation data when deterr	I Rubber or I nining the su	Natural Rubber boots. Note: Always c itability of footwear prior to use.	consult the footwear manufacturer's		
	SECTION 9:	PHYSICAL	AND CHEMICAL PROPERTIES			
Appearance:	Clear to hazy brown		Bulk Density (pounds/ft³):	Not applicable		
Physical State:	Liquid		Vapor Pressure:	No data available		
Odor:	No 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 / Organic Matter:	Nil / 7.7%		
Molecular Weight:	Not applicable		% Volatile:	Approximately 76		
Boiling Point:	Greater than 100° C. (21	2° F.)	Solubility in H ₂ O:	Soluble		
Freezing/Melting Point	:: Less than 0° C. (32° F.)		Octanol/Water Partition Coefficient:	No data available		
Specific Gravity:	1.05 – 1.15 @ 20° C.		pH (as is):	8.0 to 9.5		
Density (pounds/gallon)	Approximately 8.68		pH (1% solution):	No data available		
	SECTI	ON 10: STA	BILITY AND REACTIVITY			
GENERAL: This	product is stable and hazardou	s polymeriza	tion will not occur.			
CONDITIONS TO AVOID: Do not store this product below 50° F (10° C) or above 90° F (30° C)						
INCOMPATIBLE MATERIAL: Oxidizers, caustics & strong alkali and all acids or acidic materials.						
HAZARDOUS DECOMPOSITION PRODUCTS: When heated to dryness and decomposition, it emits toxic Ammonia gas, with toxic oxides of carbon, phosphorus and nitrogen with trace or ultra-trace toxic oxide amounts, of sulfur, potassium, iron, manganese, magnesium, calcium, zinc and sodium.						
SENSITIVITY TO MECHANICAL IMPACT: This product is <u>not</u> sensitive to mechanical impact.						
SENSITIVITY TO ST	ATIC DISCHARGE:	This produc	t is <u>not</u> sensitive to static discharge.			

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

SECTION 11: TOXICOLOGICAL INFORMATION

Components:	<u>Urea</u>	Phosphoric Acid	
Eye Contact:	No data available	Rabbit: 119 mg; Severe	
Skin Contact:	No data available	Rabbit: 595 mg/24 hours; Severe	
Oral Rat LD₅₀:	8,471 mg/kg	1,530 mg/kg	
Dermal Rabbit LD ₅₀ :	No data available (Rabbit, Subcutaneous LD_{Lo} : 3 gm/kg)	2,740 mg/kg	
Inhalation Rat LC₅₀:	No data available (Rat, Inhalation, Chronic – Multiple Dose, 288 mg/m³/17 weeks; Toxic effects: Kidney, Ureter & Bladder – Other changes in urine composition; Blood – Other changes; Nutritional and gross metabolic changes.)		
Human Data:	Human: 22 mg/3 days; Mild	Unreported Route Man LD _{Lo} : 220 mg/kg	
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.	Oral Man TD _{Lo} : 1,286 uL/kg	
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, Mucous membranes, Lungs & Gastrointestinal tract	
Medical Conditions Aggravated By Exposure:	Skin, Respiratory or Cardiac disorders	Skin, Respiratory or Gastrointestinal disorders	

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:

This product is soluble in water and may slightly 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)

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: TRAN	SPORTATION INFORMATION
DOT PROPER SHIPPING NAME:	Not DOT Regulated (United St	
	Hazard Class: Not appli	icable UN Number: N/A Packing Group: N/A
	Primary Label: Not appli	icable Subsidiary Label(s): None Required
	Primary/Subsidiary Placar	rds: None Required
DOT Reportable Quantity (RQ):	Not Listed	RQ for Product: Not Applicable
Marine Pollutant:	No	
2012 North American Emergency R		Not applicable
TDG PROPER SHIPPING NAME:	NOT RESTRICTED	
TEG FROFER SHIFFING NAME.		icable UN Number: N/A Packing Group: N/A
	Primary Label: None Re	
	Primary/Subsidiary Placar	rds: None required
TDG Reportable Quantity (RQ): *	Not applicable	
TDG Schedule XII:	Not applicable	
Regulated Limit (RL): **	Not Listed	RL for Product: Not Applicable
Other Shipping Information:	None	
* Canadian Transportation of Dangerous meet the definition of a "dangerous occurre	ence" (a threat to life, health, property, c	Table I, Quantities or levels for Immediate Reporting: releases of reportable quantities, RQ, th or the environment) must be reported to the appropriate authorities as outlined in TDGR 9.13(exceeding the regulated limits, RL, of 9.2 materials (primary or secondary). The regulated limit
	SECTION 15: RE	GULATORY INFORMATION
COMPONENTS:	<u>Urea</u>	Phosphoric Acid
OSHA Target Organs:	Eyes, Skin, Mucou membranes, Lungs Cardiovascular & Centra Nervous Systems	s, membranes, Lungs &
Carcinogenic Potential:		
Regulated by OSHA:	Νο	No
Listed on NTP Report:	No	No
Listed by IARC:	No	No
IARC Group:	Not applicable	Not applicable
ACGIH Appendix A:	Not listed	Not listed
A1 Confirmed Human:	Not applicable	Not applicable
A2 Suspected Human:	Not applicable	Not applicable
U.S. EPA Requirements		
Release Reporting		
CERCLA (40 CFR 302)	Not lists -	Vez
Listed Substance: Reportable Quantity:	Not listed	Yes
	Not applicable	5,000 pounds D
-	Not applicable	D Not listed
Category:	Not applicable	INCLUSIED.
Category: RCRA Waste No.:	Not applicable	
Category: RCRA Waste No.: Unlisted Substance:	Not applicable	Not applicable
Category: RCRA Waste No.: Unlisted Substance: Reportable Quantity:	Not applicable Not applicable	Not applicable Not applicable
Category: RCRA Waste No.: Unlisted Substance: Reportable Quantity: Characteristic:	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable
Category: RCRA Waste No.: Unlisted Substance: Reportable Quantity:	Not applicable Not applicable	Not applicable Not applicable
Category: RCRA Waste No.: Unlisted Substance: Reportable Quantity: Characteristic:	Not applicable Not applicable Not applicable	Not applicable Not applicable Not applicable

S	ECTION 15: REGULATO	RY INFORMATION (C	ontinued from	m page 5)	
COMPONENTS:	<u>Urea</u>	Phosphoric Acid			
SARA TITLE III					
Section 302 & 303 (40 CFR 355): Listed Substance: Reportable Quantity: Planning Threshold:	Not listed Not applicable Not applicable	Not listed Not applicable Not applicable			
Section 311 & 312 (40 CFR 370) Hazard Categories (product):	,	ase of Pressure: <u>N</u> Read	ctive: <u>N</u> Acı	ute Health: Y	Chronic Health: <u>N</u>
Planning threshold:	 10,000 pounds		_	_	_
Section 313 (40 CFR 372): Listed Toxic Chemical:	Yes (Aqua Ammonia)	No (Delisted in June 2000)	e		
Reporting Threshold:	10,000 pounds	Not applicable			
U.S. TSCA Status Listed (40 CFR 710):	Yes	Yes			
State Regulations State of California: Safe Drinki Carcinogen: Reproductive Toxin:	i ng Water and Toxins Enforcen No No	nent Act, 1986 (Proposition No No	65):		
Other Regulations State Right To Know Laws:	MA, NJ, PA				
Canadian Regulations Product Information: Controlled Product: WHMIS Hazard Symbols: WHMIS Class & Division:	Yes Material Causing Other To D.2B	xic Effects			
Ingredient Information: IDL Substance:	Yes	No			
DSL or NDSL Lists:	DSL	DSL			
	SECTION	16: OTHER INFORMA	TION		
EPA Registration number:	Not applicable				
Approved Product Uses:	Used as part of a plant nutri	tion program.			
Special Notes:					
birth defects or other reprod	tured, or formulated to contai luctive harm. However, as it of elements known to the Sta	contains mined minerals,	this product ma	ay contain trac	e (parts per million) or
	e Base Pro in a cool, dry, wel or caustic materials, as this w				products. Do not add
	Revised Date: NA				
SDS Distributed by: Bio Hum					
	geon, Sr. EHSS Director	Date Prepared:	March 5 th 20		
This Safety Data Sheet is provide assumes legal liability. While Bio it is the responsibility of the user t with applicable federal, state, and	Huma Netics, Inc. believes the in to investigate and verify its valid	formation contained herein is	s accurate and co	ompiled from sou	irces believed to be reliable