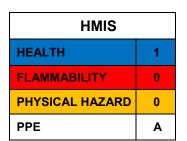


SAFETY DATA SHEET HUMA GRO® X-Tend



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SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION						
PRODUCT IDENTIFIER:	HUMA GRO® X-Tend	Product# 017				
GENERAL USE:	Used as a part of a plant nutrition program.					
PRODUCT DESCRIPTION:	A clear to hazy brown, liquid having no characteristic odor.					
SUPPLIER INFORMATION:	Bio Huma Netics, Inc. 1331 W Houston Avenue	EMERGENCY PHONE NUMBERS				
For Additional SDS	Gilbert, AZ 85233	CHEMTREC: (In the USA) 800-424-9300 (International				

For Additional SDS call:

PHONE: (480) 961-1220

703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

HAZARDS OVERVIEW: A clear to hazy brown, moderately alkaline liquid having no characteristic odor. The liquid and mists may be irritating to the eyes and the skin, with some blue tinting of the skin. Inhalation of mists may be irritating to the entire respiratory tract. Ingestion of this product can cause gastrointestinal irritation or pain, with possible cardiovascular and central nervous system effects.

CLASSIFICATION: HAZARD CATEGORY 5 - MAY BE HARMFUL IF SWALLOWED

SIGNAL WORD: WARNING

HAZARD STATEMENT: H303 - WARNING - may be harmful if swallowed

PRECAUTIONARY STATEMENT: P312; Call a poison center/doctor/physician if you feel unwell

CLASSIFICATION: HAZARD CATEGORY 3 - MILD SKIN IRRITATION

SIGNAL WORD: WARNING

HAZARD STATEMENT: H316 - WARNING - causes mild skin irritation

PRECAUTIONARY STATEMENT: P332+P313; If skin irritation occurs: Get medical attention/advice.

SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS ACGIH OSHA TLV_(TWA) PEL_(TWA) **COMPONENT** CAS# OSHA HAZARD WT % **STEL** STEL Urea 57-13-6 Eye Irritant; Slight to 6 ± 1 None None None None Moderate Skin Respiratory Irritant; Slightly AIHA Toxic by Chronic Dermal WEEL: Contact & Inhalation, with 10 mg/m³ Cardiovascular & Central Nervous System effects. **Phosphoric Acid** 7664-38-2 Corrosive; Lung Toxin 5 ± 1 1 mg/m^3 3 mg/m³ 1 mg/m^3 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, preferably mouth-to-mouth. 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 if irritation persists.

SKIN CONTACT: In case of contact, flush skin with plenty of clean running water. Remove contaminated clothing and shoes and wash

before reuse. If irritation occurs and persists, get medical attention.

INGESTION: If large quantities of this product are swallowed, call a physician immediately. DO NOT induce vomiting unless

directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

NOTE TO PHYSICIANS:

Based on component information, this product may be slightly toxic by ingestion. If a large amount is ingested, consideration should be given to careful endoscopy as stomach or esophageal irritation may occur, with possible central nervous system effects following absorption into the blood stream. 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, moderately alkaline solution of organic and inorganic compounds. The Uniform Fire

Code health hazard classification for this product is: Irritant. It may produce hazardous decomposition products.

FIRE FIGHTING INSTRUCTIONS: EXTINGUISHING MEDIA: Water, foam, CO₂ 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, 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.

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 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:

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 Use a local or general, mechanical exhaust ventilation system capable of maintaining emissions, in the work area,

MEASURES: above the AIHA WEEL or levels that may cause irritation.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

RESPIRATOR: Respiratory protection is not normally required. If use produces mists or aerosols 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 Natural Rubber gloves. Note: Always consult the glove manufacturer's

permeation data when determining the suitability of gloves prior to use.

CLOTHING & Wear a Neoprene, Nitrile, Butyl Rubber or Natural Rubber apron when handling this product. An eye wash station

EQUIPMENT: 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 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. (212° F.)	Solubility in H₂O:	Soluble		
Freezing/Melting Point:	Less than 0° C. (32° F.)	Octanol/Water Partition Coefficient:	No data available		
Specific Gravity:	1.05 – 1.15 @ 20° C.	pH (as is):	8.0 to 9.5		
Density (pounds/gallon):	Approximately 8.68	pH (1% solution):	No data available		

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

SECTION 11: TOXICOLOGICAL INFORMATION

Urea **Phosphoric Acid** Components:

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 LD₅₀: No data available (Rabbit, Subcutaneous LD₁₀: 3 gm/kg) 2,740 mg/kg

No data available (Rat, Inhalation, Chronic - Multiple Inhalation Rat LC₅₀: Greater than 850 mg/m³/1 hour 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 LDLo: 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 Rat TD_{Lo}: 821 gm/kg/1 year; Tumorigenic – Neoplastic Carcinogenicity: No data available

by RTECS criteria; Blood – Tumors; Blood – Lymphomax

including Hodgkin's disease.

Teratogenicity: Intraplacental Woman TDLo: 1,400 mg/kg (female 16 No data available

Weeks pregnant); Effects on Fertility - Abortion

Mutagenicity: Human DNA Inhibition; lymphocyte: 600 mmol/Liter No data available

Synergistic Products: None reported

Target Organs: Eyes, Skin, Mucous membranes, Lungs, Cardiovascular &

Central Nervous Systems

Eyes, Skin, Mucous membranes, Lungs & Gastrointestinal

tract

None reported

Oral Man TD_{Lo}: 1,286 uL/kg

Medical Conditions

Skin, Respiratory or Cardiac disorders Skin, Respiratory or Gastrointestinal disorders Aggravated By Exposure:

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: TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Not DOT Regulated (United States)

Hazard Class: Not applicable UN Number: N/A Packing Group: N/A

Primary Label: Not applicable Subsidiary Label(s): None Required

Primary/Subsidiary Placards: None Required

DOT Reportable Quantity (RQ): Not Listed RQ for Product: Not Applicable

Marine Pollutant: No

2012 North American Emergency Response Guidebook No.: Not 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/Subsidiary Placards: 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

SECTION 15: REGULATORY INFORMATION

COMPONENTS: <u>Urea</u> <u>Phosphoric Acid</u>

OSHA Target Organs:

Eyes, Skin, Mucous Eyes, Skin, Mucous membranes, Lungs, membranes, Lungs &

membranes, Lungs, membranes, Lungs & Cardiovascular & Central Gastrointestinal tract

Nervous Systems

Carcinogenic Potential:

 Regulated by OSHA:
 No
 No

 Listed on NTP Report:
 No
 No

 Listed by IARC:
 No
 No

IARC Group:Not applicableNot applicableACGIH Appendix A:Not listedNot listedA1 Confirmed Human:Not applicableNot applicableA2 Suspected Human:Not applicableNot applicable

U.S. EPA Requirements

Release Reporting

CERCLA (40 CFR 302)

Listed Substance: Not listed Yes

Reportable Quantity: Not applicable 5,000 pounds

Category: Not applicable D

RCRA Waste No.:

Not applicable

Not listed

Unlisted Substance:

Reportable Quantity:

Not applicable

^{*} 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 (Continued from page 5)

COMPONENTS: <u>Urea</u> <u>Phosphoric Acid</u>

SARA TITLE III

Section 302 & 303 (40 CFR 355):

Listed Substance:Not listedNot listedReportable Quantity:Not applicableNot applicablePlanning Threshold:Not applicableNot applicable

Section 311 & 312 (40 CFR 370):

Hazard Categories (product): Fire: N Sudden Release of Pressure: N Reactive: N Acute Health: Y Chronic Health: N

Planning threshold: 10,000 pounds 10,000 pounds

Section 313 (40 CFR 372):

Listed Toxic Chemical: Yes (Aqua Ammonia) No (Delisted in June

2000)

Reporting Threshold: 10,000 pounds Not applicable

U.S. TSCA Status

Listed (40 CFR 710): Yes Yes

State Regulations

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

Carcinogen: No No Reproductive Toxin: No No No

Other Regulations

State Right To Know Laws: MA, NJ, PA

Canadian Regulations

Product Information:

Controlled Product: Yes

WHMIS Hazard Symbols: Material Causing Other Toxic Effects

WHMIS Class & Division: D.2B

Ingredient Information:

 IDL Substance:
 Yes
 No

 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 X-Tend 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 toxic, corrosive Ammonia gas.

SDS Revision Information: Revised Date: 11/15/17

SDS Distributed by: Bio Huma Netics, Inc.

Prepared By: Frank S. Pidgeon, Sr. EHSS Director Date Prepared: October 16, 2015

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