

# SAFETY DATA SHEET HUMA GRO® X-Tend

**REV E 1/8/16** HG-160113-20

HMIS	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PPE	Α

h	ncorporated	
	0	
	1	0

<b>SECTION 1:</b>	CHEMICAL PRODUCT & COMPANY IDENTIFICATION
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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, liquid having no characteristic odor.

SUPPLIER INFORMATION: Bio Huma Netics

1331 W Houston Avenue Gilbert, AZ 85233

For Additional SDS call: PHONE: (480) 961-1220

**EMERGENCY PHONE NUMBERS** 

CHEMTREC: (In the USA) 800-424-9300

(International) 703-527-3887

#### **SECTION 2: HAZARDS IDENTIFICATION**

HAZARDS OVERVIEW: A clear to hazy, blue, 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** COMPONENT CAS# **OSHA HAZARD** WT % TLV<sub>(TWA)</sub> **STEL** PEL<sub>(TWA)</sub> **STEL Diammonium Phosphate** 7783-28-0 Eye Irritant; Slight to $16 \pm 3$ None None None None Moderate Skin Respiratory Irritant; Slightly Toxic by Ingestion: Central Nervous System toxin Urea 57-13-6 Eye Irritant; Slight to $6 \pm 1$ None None None None Moderate Skin Respiratory Irritant; Slightly AIHA Toxic by Chronic Dermal WEEL: 10 mg/m<sup>3</sup> Contact & Inhalation, with Cardiovascular & Central Nervous System effects. 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, CO<sub>2</sub> 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, blue	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:	Nil	
Molecular Weight:	Not applicable	% Volatile:	Approximately 76	
Boiling Point:	Greater than 100° C. (212° F.)	Solubility in H <sub>2</sub> O:	Soluble	
Freezing/Melting Point:	Less than 0° C. (32° F.)	Octanol/Water Partition Coefficient:	No data available	
Specific Gravity:	1.07 – 1.09 @ 20° C.	pH (as is):	8.0 - 9.5	
Density (pounds/gallon):	Approximately 8.8	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**

**Diammonium Phosphate** Urea Components:

**Eye Contact:** No data available No data available

**Skin Contact:** No data available No data available

Oral Rat LD50: Greater than 1,000 mg/kg 8,471 mg/kg

Dermal Rabbit LD<sub>50</sub>: No data available No data available (Rabbit, Subcutaneous LD<sub>10</sub>: 3 gm/kg)

Inhalation Rat LC<sub>50</sub>: No data available 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.)

**Human Data:** No data available Human: 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.

No data available Carcinogenicity: Oral Rat TD<sub>Lo</sub>: 821 gm/kg/1 year; Tumorigenic – Neoplastic by

RTECS criteria; Blood - Tumors; Blood - Lymphomax

including Hodgkin's disease.

Teratogenicity: No data available Intraplacental Woman TDLo: 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, Lungs & Central Nervous System Eyes, Skin, Mucous membranes, Lungs, Cardiovascular &

Central Nervous Systems

**Medical Conditions** 

Skin or Respiratory disorders Skin, Respiratory or Cardiac 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)** 

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

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

Primary/Subsidiary Placards: None Required

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

**Marine Pollutant:** 

2012 North American Emergency Response Guidebook No.: Not applicable

TDG PROPER SHIPPING NAME: **NOT RESTRICTED** 

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

Primary Label: None Required Subsidiary Label(s): None Required

Primary/Subsidiary Placards: None required

TDG Reportable Quantity (RQ): \* Not applicable Not applicable **TDG Schedule XII:** 

Regulated Limit (RL): \*\* **RL for Product:** Not Applicable Not Listed

Other Shipping Information: None

# **SECTION 15: REGULATORY INFORMATION**

**Diammonium Phosphate** <u>Urea</u> **COMPONENTS:** 

Eyes, Skin, Lungs & Central Eyes, Skin. Mucous **OSHA Target Organs:** Nervous System

membranes, Lungs, Cardiovascular & Central

Nervous Systems

**Carcinogenic Potential:** 

Regulated by OSHA: No 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)

**Listed Substance:** Not listed Not listed Reportable Quantity: Not applicable Not applicable Category: Not applicable Not applicable Not applicable Not applicable RCRA Waste No.: **Unlisted Substance:** Not applicable Not applicable Not applicable Not applicable Reportable Quantity: Characteristic: Not applicable Not applicable RCRA Waste No.: Not applicable 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>Diammonium</u> <u>Urea</u>

**Phosphate** 

**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) Not listed

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 No Reproductive Toxin: No No No

Other Regulations

State Right To Know Laws: None Known

Canadian Regulations

**Product Information:** 

Controlled Product: Yes

WHMIS Hazard Symbols: Material Causing Other Toxic Effects

WHMIS Class & Division: D.2B

Ingredient Information:

IDL Substance:NoNoDSL or NDSL Lists:DSLDSL

**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: 1/8/16

SDS Distributed by: Bio Huma Netics

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

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