

# SAFETY DATA SHEET HUMA GRO® Start L™

| HMIS            |   |  |
|-----------------|---|--|
| HEALTH          | 1 |  |
| FLAMMABILITY    | 0 |  |
| PHYSICAL HAZARD | 0 |  |
| PPE             | Α |  |

| SECTION 1: | CHEMICAL PRODUCT & COMPANY IDENTIFICATION |
|------------|-------------------------------------------|
|------------|-------------------------------------------|

PRODUCT IDENTIFIER: HUMA GRO® Start L™ Product# 140

**GENERAL USE:** Used as a part of a plant nutrition program.

**PRODUCT DESCRIPTION:** A clear to hazy, brown liquid having a slight characteristic odor.

SUPPLIER INFORMATION: Bio Huma Netics, Inc.

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, brown, very slightly alkaline liquid having a slight characteristic odor. The liquid and mists may be irritating to the eyes and possibly the skin. Inhalation of mists may be irritating to the entire respiratory tract. Ingestion of this product may cause gastrointestinal irritation, with possible 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

### **SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS**

**ACGIH OSHA** COMPONENT CAS# **OSHA HAZARD** WT % STEL PEL<sub>(TWA)</sub> STEL TLV<sub>(TWA)</sub> **Diammonium Phosphate** 7783-28-0 Eye Irritant; Slight to Moderate Skin  $3 \pm 1$ None None None None & Respiratory Irritant; Slightly Toxic by Ingestion: Central Nervous

System toxin

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**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, very slightly 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, nitrogen oxides, molybdenum oxides and sodium oxide with trace or ultra-trace toxic oxide amounts, of iron, manganese,

magnesium, potassium, sulfur, calcium, zinc and cobalt.

#### **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 for potential recovery and return to the appropriate container. Absorb the remaining liquid using sand or a commercially absorbent material; dispose as non-hazardous solid waste. 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:** below those 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:                                       | Slight, characteristic         | Vapor Density (air=1):                | No data available        |  |
| Odor Threshold:                             | No data available              | Evaporation Rate (n-Butyl Acetate=1): | No data available        |  |
| Molecular Formula:                          | Mixture                        | VOC Content / Organic Matter:         | No data available / 0.5% |  |
| Molecular Weight:                           | Not applicable                 | % Volatile:                           | No data available        |  |
| 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:                           | 1.00 – 1.20 @ 20° C.           | pH (as is):                           | 7.5 - 8.5                |  |
| Density (pounds/gallon):                    | Approximately 8.34             | 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 and strong alkali.

HAZARDOUS DECOMPOSITION PRODUCTS: When heated to dryness and decomposition, it emits toxic Ammonia gas, with toxic

oxides of carbon, phosphorus, nitrogen, molybdenum and sodium with trace or ultratrace toxic oxide amounts, of sulfur, potassium, iron, manganese, magnesium,

calcium, zinc and cobalt.

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

Eye Contact: No data available
Skin Contact: No data available

Oral Rat LD<sub>50</sub>: Greater than 1,000 mg/kg

Dermal Rabbit LD<sub>50</sub>: No data available Inhalation Rat LC<sub>50</sub>: No data available Human Data: No data available Other Toxicological Data: No data available Carcinogenicity: No data available Teratogenicity: No data available

Mutagenicity: No data available

Synergistic Products: None reported

Target Organs: Eyes, Skin, Lungs & Central Nervous System

**Medical Conditions** 

Aggravated By Exposure:

Skin or Respiratory disorders

# **SECTION 12: ECOLOGICAL INFORMATION**

#### **ENVIRONMENTAL FATE:**

This product is soluble in water and is not expected to significantly 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: N/A Subsidiary Label(s): N/A

Primary/Subsidiary Placards: N/A

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: Phosphoric Acid Solution

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

Primary Label: N/A Subsidiary Label(s): N/A

Primary/Subsidiary Placards: N/A

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: Diammonium Phosphate

OSHA Target Organs: Eyes, Skin, Lungs &

Central Nervous System

**Carcinogenic Potential:** 

Regulated by OSHA: No
Listed on NTP Report: No
Listed by IARC: No

IARC Group:

ACGIH Appendix A:

A1 Confirmed Human:

A2 Suspected Human:

Not applicable

Not applicable

#### U.S. EPA Requirements

**Release Reporting** 

**CERCLA** (40 CFR 302)

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

<sup>\*</sup> 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 4)

COMPONENTS: <u>Diammonium</u> Phosphate

**SARA TITLE III** 

Section 302 & 303 (40 CFR 355):

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

Section 313 (40 CFR 372):

Listed Toxic Chemical: Yes (Aqua Ammonia)
Reporting Threshold: 10,000 pounds

U.S. TSCA Status

Listed (40 CFR 710): Yes

State Regulations

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

Carcinogen: No Reproductive Toxin: 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: No DSL or NDSL Lists: 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 (less than 300 ppm of a cobalt compound) and other mined minerals, this product can 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 Start-L™ 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: 9/08/2020

SDS Distributed by: Bio Huma Netics, Inc.

Prepared By: Frank S. Pidgeon, Sr. EHSS Director Date Prepared: October 21, 2014

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