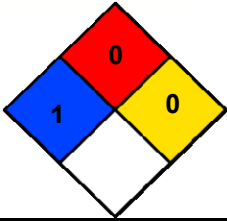




# SAFETY DATA SHEET

## HUMA GRO® Huma Pro® 16

Rev B 3/17/2021



HMIS	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PPE	B

### SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

**PRODUCT IDENTIFIER:** HUMA GRO® Huma Pro® 16 **Product # 616**

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

**PRODUCT DESCRIPTION:** A dark brown to black liquid having no characteristic odor.

**INFORMATION PROVIDED BY:** Bio Huma Netics, Inc.  
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 dark brown to black, alkaline liquid having no characteristic odor. The liquid and mists may be irritating to the eyes and skin. Inhalation of mists may be irritating to the entire respiratory tract. Ingestion of this product may cause gastrointestinal irritation.



**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

**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

COMPONENT	CAS #	OSHA HAZARD	WT %	ACGIH		OSHA	
				TLV <sub>(TWA)</sub>	STEL	PEL <sub>(TWA)</sub>	STEL
Humic Acid (HA)	1415-93-6	Eye, Skin & Respiratory Irritant.	17 ± 0.5	None	None	None	None
Proprietary polymeric hydrosol leachate and chelated nutrients	N/A	Eye, Skin & Respiratory Irritant.	70 ± 2	None	None	None	None
Water and other components	7732-18-5	None of the remaining components contribute significant health hazards at the concentrations present in this product. All pertinent hazard information has been provided in this document, per the requirements of OSHA Standard 29 CFR 1910.1200, U.S.	Balance	None	None	None	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 is 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:** No data available                      **Upper:** No data available
- Autoignition Temperature:** Not determined
- GENERAL HAZARD:** This product is an aqueous, slightly alkaline solution of organic and inorganic compounds with small amounts of mineral salts. The Uniform Fire Code health hazard classification for this product is: **Irritant**. It may produce hazardous decomposition products.
- FIRE FIGHTING INSTRUCTIONS:**                      **EXTINGUISHING MEDIA:** Water fog, foam, CO<sub>2</sub> or dry chemicals.  
Use a water fog or spray 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, chloride compounds, carbon dioxide, carbon monoxide, and nitrogen oxides with trace or ultra-trace toxic oxide amounts of iron, sulfur, manganese, magnesium, potassium, calcium, phosphorus, zinc, cobalt, boron, 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 the liquid using pumps or vacuum truck for disposal in accordance with Federal, State and local regulations. Absorb the remaining liquid using sand, or commercially absorbent material; dispose as Federal, State and local requirements dictate. Flush the spill area with water; collect the rinsates for disposal as the regulations require.
- 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, below the ACGIH-TLV, AIHA WEEL or levels that may cause irritation.

### RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

**RESPIRATOR:** Respiratory protection is not normally required. If use creates mists or aerosols, or if an ACGIH-TLV is exceeded, a NIOSH approved full facepiece or half mask air-purifying cartridge respirator equipped with an organic vapor cartridge and a dust / mist pre-filter or supplied air is required. **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 Butyl Rubber, Neoprene 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 Butyl Rubber, Neoprene or Natural Rubber apron 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 Butyl Rubber, Neoprene 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

<b>Appearance:</b>	Dark brown to black	<b>Bulk Density (pounds/ft<sup>3</sup>):</b>	Not applicable
<b>Physical State:</b>	Liquid	<b>Vapor Pressure:</b>	No data available
<b>Odor:</b>	None	<b>Vapor Density (air=1):</b>	No data available
<b>Odor Threshold:</b>	No data available	<b>Evaporation Rate (n-Butyl Acetate=1):</b>	No data available
<b>Molecular Formula:</b>	Mixture	<b>VOC Content / Organic Matter:</b>	Nil / No data available
<b>Molecular Weight:</b>	Not applicable	<b>% Volatile:</b>	No data available
<b>Boiling Point:</b>	Greater than 100° C. (212° F.)	<b>Solubility in H<sub>2</sub>O:</b>	Soluble
<b>Freezing/Melting Point:</b>	Less than 0° C. (32° F.)	<b>Octanol/Water Partition Coefficient:</b>	No data available
<b>Specific Gravity:</b>	1.10 – 1.20 @ 20° C.	<b>pH (as is):</b>	11.0 – 12.0
<b>Density (pounds/gallon):</b>	Approximately 9.01	<b>pH (1% solution):</b>	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:** Alkaline solutions, reducing agents, non-ferrous metals, strong oxidizers, combustible materials.

**HAZARDOUS DECOMPOSITION PRODUCTS:** When heated to dryness and decomposition, it emits toxic Ammonia gas and chloride compounds plus toxic oxides of carbon, nitrogen and cobalt with trace or ultra-trace toxic oxide amounts, of, iron, sulfur, manganese, magnesium, potassium, calcium, phosphorus, boron, zinc 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 (additional toxicological information in section 16)

Components:	<u>Humic Acid</u>	<u>Proprietary polymeric hydrosol leachate and chelate nutrients</u>
<b>Eye Contact:</b>	No data available	No data available
<b>Skin Contact:</b>	No data available	No data available
<b>Oral Rat LD<sub>50</sub>:</b>	2,217 mg/kg	No data available
<b>Dermal Rabbit LD<sub>50</sub>:</b>	No data available	No data available
<b>Inhalation Rat LC<sub>50</sub>:</b>	No data available	No data available
<b>Human Data:</b>	No data available	No data available
<b>Other Toxicological Data:</b>	No data available	No data available
<b>Carcinogenicity:</b>	No data available	No data available
<b>Teratogenicity:</b>	No data available	No data available
<b>Mutagenicity:</b>	No data available	No data available
<b>Synergistic Products:</b>	None reported	None reported
<b>Target Organs:</b>	Eyes, Skin, Mucous membranes	Eyes, Skin, Mucous membranes
<b>Medical Conditions Aggravated By Exposure:</b>	Skin or Respiratory disorders	Skin or Respiratory disorders

## SECTION 12: ECOLOGICAL INFORMATION

### ENVIRONMENTAL FATE:

This product is completely soluble in water and is not expected to affect the pH of water. No specific environmental fate data is available, but the organic portion of this product is expected to be biodegradable.

### ENVIRONMENTAL CONSIDERATIONS:

The aquatic toxicity for this product has not been determined.

## 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-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:** Potassium hydroxide, solution  
**Hazard Class:** 8                      **UN Number:** UN1814                      **Packing Group:** II  
**Primary Label:** Corrosive                      **Subsidiary Label(s):** None Required  
**Primary/Subsidiary Placards:** Corrosive

**DOT Reportable Quantity (RQ):** 1,000 pounds (KOH)                      **RQ for Product:** Approximately 30,000 lbs (3,330 gallons)  
**Marine Pollutant:** No

**2012 North American Emergency Response Guidebook No.:** 154

**TDG PROPER SHIPPING NAME:** Potassium hydroxide, solution  
**Hazard Class:** 8                      **UN Number:** UN1814                      **Packing Group:** II  
**Primary Label:** Corrosive                      **Subsidiary Label(s):** None Required  
**Primary/Subsidiary Placards:** Corrosive

**TDG Reportable Quantity (RQ): #** At least 5kg or 5 liters  
**TDG Schedule XII:** Not listed  
**Regulated Limit (RL): ##** 50kg (KOH)                      **RL for Product:** Approximately 1,500 kg (1,304 L)  
**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

<b>COMPONENTS:</b>	<u><b>Humic Acid</b></u>	<u><b>Proprietary polymeric hydrosol leachate and chelate nutrients</b></u>
<u><b>OSHA Target Organs:</b></u>	Eyes, Skin, Mucous membranes	Eyes, Skin, Mucous membranes
<u><b>Carcinogenic Potential:</b></u>		
<b>Regulated by OSHA:</b>	No	No
<b>Listed on NTP Report:</b>	No	No
<b>Listed by IARC:</b>	No	No
<b>IARC Group:</b>	Not applicable	Not applicable
<b>ACGIH Appendix A:</b>	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)**

<b>Listed Substance:</b>	Not listed	Not listed
Reportable Quantity:	Not applicable	Not applicable
Category:	Not applicable	Not applicable
RCRA Waste No.:	Not applicable	Not applicable
<b>Unlisted Substance:</b>	Not applicable	Not applicable
Reportable Quantity:	Not applicable	Not applicable
Characteristic:	Not applicable	Not applicable
RCRA Waste No.:	Not applicable	Not applicable

#### **SARA TITLE III**

#### **Section 302 & 303 (40 CFR 355):**

<b>Listed Substance:</b>	Not listed	Not listed
Reportable Quantity:	Not applicable	Not applicable
Planning Threshold:	Not applicable	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                      10,000 pounds

## SECTION 15: REGULATORY INFORMATION (Continued)

<b>COMPONENTS:</b>	<u>Humic Acid</u>	<u>Proprietary polymeric hydrosol leachate and chelate nutrients</u>
<b>Section 313 (40 CFR 372):</b>		
<b>Listed Toxic Chemical:</b>	Not listed	Not listed
Reporting Threshold:	Not applicable	Not applicable
<b><u>U.S. TSCA Status</u></b>		
<b>Listed (40 CFR 710):</b>	No	No
<b><u>State Regulations</u></b>		
<b>State of California: Safe Drinking Water and Toxins Enforcement Act, 1986 (Proposition 65):</b>		
Carcinogen:	No	No
Reproductive Toxin:	No	No
<b><u>Other Regulations</u></b>		
<b>State Right To Know Laws:</b>	None known	
<b><u>Canadian Regulations</u></b>		
<b>Product Information:</b>		
Controlled Product:	<b>Yes</b>	
WHMIS Hazard Symbols:	<b>Corrosive Material</b>	
WHMIS Class & Division:	<b>E</b>	
<b>Ingredient Information:</b>		
IDL Substance:	No	No
DSL or NDSL Lists:	DSL	DSL

## SECTION 16: OTHER INFORMATION

**EPA Registration number:** Not applicable

**Approved Product Uses:** Used as a 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 Huma Pro® 16 in a cool, dry, well ventilated, area away from incompatible materials and products.

**SDS Revision Information:** Revised Date: 3/17/2021

**SDS Distributed by:** Bio Huma Netics, Inc.

<b>Prepared By:</b>	Anna Carpenter	<b>Date Prepared:</b>	September 23, 2020
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