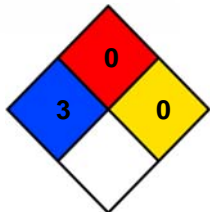




# SAFETY DATA SHEET HUMA GRO® Jackpot

REV D 11/19/15

HG-160113-10



HMIS	
HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PPE	C

## SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

<b>PRODUCT IDENTIFIER:</b>	<b>HUMA GRO® Jackpot</b>	<b>Product# 235</b>
<b>GENERAL USE:</b>	Used as a part of a plant nutrition program.	
<b>PRODUCT DESCRIPTION:</b>	A clear to hazy, dark purplish brown liquid having a characteristic odor.	
<b>SUPPLIER INFORMATION:</b>	<b>Bio Huma Netics</b> 1331 W Houston Avenue Gilbert, AZ 85233	<b>EMERGENCY PHONE NUMBERS</b>
<b>For Additional SDS call:</b>	<b>PHONE: (480) 961-1220</b>	<b>CHEMTREC: (In the USA) 800-424-9300 (International) 703-527-3887</b>

## SECTION 2: HAZARDS IDENTIFICATION

### HAZARDS OVERVIEW:



A clear to hazy, dark purplish brown, highly alkaline liquid having a characteristic odor. The liquid and mists are corrosive to all tissues contacted. Inhalation of mist can cause permanent lung damage. Moderately toxic by ingestion. This product can react vigorously with acids and other substances, materials and/or products.

**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
Potassium Hydroxide	1310-58-3	Corrosive; Toxic by Ingestion	20 ± 5	None	None	None	None
				Ceiling: 2 mg/m <sup>3</sup>			
Tripotassium Phosphate	7778-53-2	Eye, Skin & Respiratory Irritant	3 ± 1	None	None	None	None
Triethanolamine	102-71-6	Eye, Skin, Respiratory Irritant; Possible Liver & Kidney toxin	2 ± 1	5 mg/m <sup>3</sup>	None	None	None

NDA = No Data Available

N/A = Not Applicable

## SECTION 4: FIRST AID MEASURES

<b>INHALATION:</b>	If inhaled, immediately move to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; use the Holger Nielsen method (back pressure-arm lift) or proper respiratory device. If breathing is difficult, give oxygen. Call a physician.
<b>EYE CONTACT:</b>	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 immediately.
<b>SKIN CONTACT:</b>	In case of contact, immediately flush skin with plenty of clean running water for at least 15 minutes, while removing contaminated clothing and shoes. If burn or irritation occurs, call a physician.
<b>INGESTION:</b>	If swallowed DO NOT induce vomiting. Get medical attention immediately. If victim is fully conscious, give plenty of water to drink. Never give anything by mouth to an unconscious person.
<b>NOTE TO PHYSICIANS:</b>	Potassium Hydroxide solutions are corrosive to the eyes, skin and mucous membranes and are moderately toxic by ingestion. If ingested, consideration should be given to careful endoscopy as stomach or esophageal burns, perforations or strictures may occur. Careful gastric lavage with an endotracheal tube in place should be considered. Treat exposure symptomatically.

## SECTION 5: FIRE FIGHTING MEASURES

<b>Flashpoint and Method:</b>	This product does not flash.		
<b>Flammable Limits (in air, % by volume)</b>	<b>Lower:</b> Not applicable	<b>Upper:</b> Not applicable	
<b>Autoignition Temperature:</b>	Not applicable		
<b>GENERAL HAZARD:</b>	This product is a non-combustible, inorganic and organic containing, aqueous solution. The Uniform Fire Code health hazard classification for this product is: <b>Corrosive (Alkaline)</b> . Diluted solutions of this product may also be corrosive and may generate flammable / explosive Hydrogen gas on contact with some soft metals (such as Aluminum). It may produce hazardous mists or hazardous decomposition products.		
<b>FIRE FIGHTING INSTRUCTIONS:</b>	<b>EXTINGUISHING MEDIA:</b> 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.		
<b>FIRE FIGHTING EQUIPMENT:</b>	Fire fighters should wear full protective equipment, including self-contained breathing apparatus.		
<b>HAZARDOUS COMBUSTION PRODUCTS:</b>	When heated to dryness and decomposition, it emits toxic potassium oxide, sodium oxide, phosphorus oxides, carbon monoxide and carbon dioxide with trace toxic oxide amounts of, nitrogen, sulfur, iron, zinc, boron, manganese, magnesium, copper and calcium, plus irritating smoke.		

## SECTION 6: ACCIDENTAL RELEASE MEASURES

<b>RELEASE TO LAND:</b>	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.
<b>RELEASE TO WATER:</b>	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

<b>STORAGE TEMPERATURE:</b>	Ambient	<b>STORAGE PRESSURE:</b>	Ambient
<b>GENERAL:</b>	Store in a cool, dry, well-ventilated, area away from incompatible materials and products. Do not get this product in eyes, on skin, or on clothing. Wear recommended personal protective equipment when handling this product. Do not breathe mists. Use only with adequate ventilation. Do not take internally. Keep the containers tightly closed when not in use. Wash thoroughly after handling this product. This product is corrosive to Tin, Aluminum, Magnesium, Zinc and alloys containing these metals, and will react violently with these metals in powder form. A little heat may be generated when this product is mixed with water. Avoid adding water to this product. Always add this product, with constant stirring, slowly to cool to lukewarm (40 – 80° F.) water.		

## 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 OSHA-PEL, ACGIH-TLV or ACGIH Ceiling level.

### RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

**RESPIRATOR:** For exposure above the OSHA-PEL, ACGIH-TLV or ACGIH Ceiling level, or if use generates mists or aerosols, wear a NIOSH-approved full facepiece or half mask air-purifying cartridge respirator equipped with a good mist / particulate filter cartridge or supplied air. **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, Natural Rubber, or Viton gloves. **Note:** Always consult the glove manufacturer's permeation data when determining the suitability of gloves prior to use.

**CLOTHING & EQUIPMENT:** Wear a Neoprene, Nitrile, Butyl Rubber, or Natural Rubber apron, or full protective clothing, 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 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

<b>Appearance:</b>	Clear to hazy, dark purplish brown	<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>	Characteristic	<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:</b>	Nil
<b>Molecular Weight:</b>	Not applicable	<b>% Volatile:</b>	Approximately 70
<b>Boiling Point:</b>	Greater than 100° C. (212° F.)	<b>Solubility in H<sub>2</sub>O:</b>	Complete
<b>Freezing/Melting Point:</b>	Less than 0° C. (32° F.)	<b>Octanol/Water Partition Coefficient:</b>	No data available
<b>Specific Gravity:</b>	1.27 – 1.34 @ 20° C.	<b>pH (as is):</b>	14.5 - 15.5
<b>Density (pounds/gallon):</b>	Approximately 10.9	<b>pH (1% solution):</b>	12.0 to 13.0

## 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:** Acids and acidic salts, oxidizers including organic peroxides, Aluminum, Magnesium, Zinc, Tin and alloys of these metals.

**HAZARDOUS DECOMPOSITION PRODUCTS:** When heated to dryness and decomposition, it emits toxic potassium oxide, sodium oxide, phosphorus oxides, carbon monoxide and carbon dioxide with trace toxic amounts of, nitrogen, sulfur, iron, zinc, boron, manganese, magnesium, copper and calcium, plus irritating smoke.

**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

<b>Components:</b>	<b><u>Potassium Hydroxide</u></b>	<b><u>Tripotassium Phosphate</u></b>
<b>Eye Contact:</b>	Rabbit: 1 mg/24 hours, rinsed; Moderate	No data available
<b>Skin Contact:</b>	Rabbit: 50 mg/24 hours; Severe	No data available
<b>Oral Rat LD<sub>50</sub>:</b>	273 mg/kg	No data available
<b>Dermal Rabbit LD<sub>50</sub>:</b>	Greater than 2 gm/kg	No data available (Skin, Rabbit: LD: Greater than 300 mg/kg)
<b>Inhalation Rat LC<sub>50</sub>:</b>	No data available	No data available
<b>Human Data:</b>	Dermal Human: 50 mg/24 hours; Severe	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>	Hamster Cytogenetic Analysis; ovary: 12 mmol/Liter	No data available
<b>Synergistic Products:</b>	None reported	None reported
<b>Target Organs:</b>	Eyes, Skin, Mucous membranes, Lungs & Gastrointestinal tract	Eyes, Skin, Mucous membranes & Lungs
<b>Medical Conditions Aggravated By Exposure:</b>	Skin, Respiratory or Cardiac disorders	Skin or Respiratory disorders

<b>Components:</b>	<b><u>Triethanolamine</u></b>
<b>Eye Contact:</b>	Rabbit: 20 mg; Severe
<b>Skin Contact:</b>	Rabbit: 560 mg/24 hours; Mild
<b>Oral Rat LD<sub>50</sub>:</b>	8 gm/kg
<b>Dermal Rabbit LD<sub>50</sub>:</b>	Greater than 20 mL/kg
<b>Inhalation Rat LC<sub>50</sub>:</b>	No data available
<b>Human Data:</b>	Skin Contact Human: 15 mg/3 days; Mild
<b>Other Toxicological Data:</b>	Oral Guinea Pig LD <sub>50</sub> : 5,300 mg/kg
<b>Carcinogenicity:</b>	Oral Mouse TD <sub>L0</sub> : 16 gm/kg/64 weeks
<b>Teratogenicity:</b>	No data available
<b>Mutagenicity:</b>	Human Cytogenetic Analysis – lymphocyte: 100 umol/Liter
<b>Synergistic Products:</b>	None reported
<b>Target Organs:</b>	Eyes, Skin, Lungs, Liver & Kidneys
<b>Medical Conditions Aggravated By Exposure:</b>	Skin, Respiratory, Liver or Kidney disorders

## SECTION 12: ECOLOGICAL INFORMATION

### ENVIRONMENTAL FATE:

This product is soluble in water. No specific environmental fate information is available. This product will significantly affect the pH of water.

### ENVIRONMENTAL CONSIDERATIONS:

Aquatic toxicity rating for Potassium Hydroxide: 2 (TLM96: 100 to 10 ppm). TLM96 for Mosquito fish (*Gambusia affinis*) = 80 ppm. Lethal Dose (24 hour exposure): Trout = 50 ppm. Bluegills = 56 ppm. Minnows (*Lepomis pallidus*) = 28 ppm.

## SECTION 13: DISPOSAL CONSIDERATIONS

**RCRA 40 CFR 261 CLASSIFICATION:** Corrosive Waste

**U.S. EPA WASTE NUMBER/DESCRIPTION:** D002

If this product is disposed of as shipped, it meets the criteria of a hazardous waste as defined under 40 CFR 261 due to its corrosivity. If this product becomes a waste, it will be a hazardous waste, which is subject to the Land Disposal Restrictions under 40 CFR 268 and must be managed accordingly. As a hazardous liquid waste, it must be disposed of in accordance with local, state and federal regulations in a permitted hazardous waste treatment, storage and disposal facility, by treatment.

## SECTION 14: TRANSPORTATION INFORMATION

<b>DOT PROPER SHIPPING NAME:</b>	Potassium hydroxide, solution	<b>UN Number:</b>	UN1814	<b>Packing Group:</b>	II
	<b>Hazard Class:</b> 8				
	<b>Primary Label:</b> Corrosive	<b>Subsidiary Label(s):</b>	None Required		
	<b>Primary/Subsidiary Placards:</b>	Corrosive			
<b>DOT Reportable Quantity (RQ):</b>	1,000 pounds (KOH)	<b>RQ for Product:</b>	5,000 pounds (453 gallons)		
<b>Marine Pollutant:</b>	No				
<b>2012 North American Emergency Response Guidebook No.:</b>	154				
<b>TDG PROPER SHIPPING NAME:</b>	Potassium hydroxide, solution	<b>UN Number:</b>	UN1814	<b>Packing Group:</b>	II
	<b>Hazard Class:</b> 8				
	<b>Primary Label:</b> Corrosive	<b>Subsidiary Label(s):</b>	None Required		
	<b>Primary/Subsidiary Placards:</b>	Corrosive			
<b>TDG Reportable Quantity (RQ): *</b>	At least 5 kg or 5 liters				
<b>TDG Schedule XII:</b>	Not Listed				
<b>Regulated Limit (RL): **</b>	50 kg (KOH)	<b>RL for Product:</b>	250 kg (189.1 liters)		
<b>Other Shipping Information:</b>	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

COMPONENTS:	<u>Potassium Hydroxide</u>	<u>Tripotassium Phosphate</u>	<u>Triethanolamine</u>
<b><u>OSHA Target Organs:</u></b>	Eyes, Skin, Mucous membranes, Lungs & Gastrointestinal tract	Eyes, Skin, Mucous membranes & Lungs	Eyes, Skin, Lungs, Liver & Kidneys
<b><u>Carcinogenic Potential:</u></b>			
<b>Regulated by OSHA:</b>	No	No	No
<b>Listed on NTP Report:</b>	No	No	Reference 11
<b>Listed by IARC:</b>	No	No	No
IARC Group:	Not applicable	Not applicable	Not applicable
<b>ACGIH Appendix A:</b>	Not listed	Not listed	Not listed
A1 Confirmed Human:	Not applicable	Not applicable	Not applicable
A2 Suspected Human:	Not applicable	Not applicable	Not applicable

### U.S. EPA Requirements

#### Release Reporting

##### CERCLA (40 CFR 302)

<b>Listed Substance:</b>	Yes	Not listed	Not listed
Reportable Quantity:	1,000 pounds	Not applicable	Not applicable
Category:	C	Not applicable	Not applicable
RCRA Waste No.:	None listed	Not applicable	Not applicable
<b>Unlisted Substance:</b>	Not applicable	Not applicable	Not applicable
Reportable Quantity:	Not applicable	Not applicable	Not applicable
Characteristic:	Not applicable	Not applicable	Not applicable
RCRA Waste No.:	Not applicable	Not applicable	Not applicable

## SECTION 15: REGULATORY INFORMATION (Continued from page 5)

<b>COMPONENTS:</b>	<u>Potassium Hydroxide</u>	<u>Tripotassium Phosphate</u>	<u>Triethanolamine</u>
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### SARA TITLE III

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

<b>Listed Substance:</b>	Not listed	Not listed	Not listed
Reportable Quantity:	Not applicable	Not applicable	Not applicable
Planning Threshold:	Not applicable	Not applicable	Not applicable

**Section 311 & 312 (40 CFR 370):**

Hazard Categories (product):	<b>Fire: <u>N</u></b>	<b>Sudden Release of Pressure: <u>N</u></b>	<b>Reactive: <u>N</u></b>	<b>Acute Health: <u>Y</u></b>	<b>Chronic Health: <u>N</u></b>
Planning threshold:	10,000 pounds	10,000 pounds	10,000 pounds		

**Section 313 (40 CFR 372):**

<b>Listed Toxic Chemical:</b>	Not listed	Not listed	Not listed
Reporting Threshold:	Not applicable	Not applicable	Not applicable

### U.S. TSCA Status

<b>Listed (40 CFR 710):</b>	Yes	Yes	Yes
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### 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:** MA, NJ, PA, CA

### Canadian Regulations

**Product Information:**

Controlled Product:	Yes
WHMIS Hazard Symbols:	Corrosive Material
WHMIS Class & Division:	E

**Ingredient Information:**

IDL Substance:	Yes	Yes	Yes
DSL or NDSL Lists:	DSL	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 Jackpot 2 in a cool, dry, well-ventilated, area away from incompatible materials and products. Do not allow Jackpot 2 to contact Aluminum, Magnesium, Zinc, Tin or their alloys, as this will generate flammable / explosive Hydrogen gas and severely corrode the metal.

**SDS Revision Information:** Revised Date: 11/19/15

**SDS Distributed by:** Bio Huma Netics

<b>Prepared By:</b> Frank S. Pidgeon, EHS Director	<b>Date Prepared:</b> October 20, 2014
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