

SAFETY DATA SHEET HUMA GRO® Golden Pro®



HMIS	
HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0
PPE	Е

PRODUCT HUMA GRO® Golden Pro® Product# 036

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

PRODUCT A clear to slightly hazy, greenish gold liquid having a slight, characteristic odor.

DESCRIPTION:

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 slightly hazy, greenish gold, strongly acidic liquid having a slight, characteristic odor. The vapors, mists and liquid may cause severe irritation or burns to all tissues contacted. This product may generate flammable Hydrogen gas on contact with most metals.

The NIOSH I.D.L.H. for Phosphoric Acid is: 1,000 mg/m³



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

SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS

COMPONENT	CAS#	OSHA HAZARD		ACGIH		OSHA	
			<u>WT %_</u>	$TLV_{(TWA)}$	STEL	$PEL_{(TWA)}$	STEL
Phosphoric Acid	7664-38-2	Corrosive; Lung Toxin	38 ± 3	1 mg/m ³	3 mg/m ³	1 mg/m ³	None
Calcium Nitrate	10124-37-5	Oxidizer; Eye, Skin & Respiratory Irritant; Toxic by Ingestion	15 ± 3	None	None	None	None
Potassium Nitrate	7757-79-1	Oxidizer; Eye, Skin & Respiratory Irritant; Toxic by Ingestion	8 ± 2	None	None	None	None
Nitric Acid	7697-37-2	Corrosive; Eye, Skin & Respiratory Hazard; Lung toxin; Toxic by Ingestion	2 ± 1	2 ppm	4 ppm	2 ppm	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. 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.

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 immediately.

SKIN CONTACT: 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.

INGESTION: 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.

NOTE TO PHYSICIANS:

While Phosphoric Acid, Calcium Nitrate, Potassium Nitrate and Nitric Acid solutions have a moderate oral toxicity, they are severely irritating and/or corrosive to the eyes, skin and mucous membranes. 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

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 not combustible, but it will generate flammable / explosive Hydrogen gas on contact with many

metals. The Uniform Fire Code physical hazard classification for this product is: **Oxidizer, Class 1;** the health hazard classification is: **Corrosive (Acidic).** Dilute solutions of this product may also be corrosive. It may

produce hazardous mists or 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

phosphorus oxides, nitrogen oxides, potassium oxide and calcium oxide with trace toxic

oxide amounts of sulfur, iron, zinc, manganese, magnesium, sodium and carbon.

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 commercial absorbent. Place in approved containers for recovery, disposal, or satellite accumulation. Neutralize the acidity, of the remaining liquid, using soda ash, lime, or other agent

appropriate for neutralizing acidic liquids. 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. Do not get this product in eyes,

on skin or on clothing. Wear recommended personnel protective equipment when handling this product. Do not breathe mists, vapors, fumes or aerosols. Use only 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 the OSHA-PEL, ACGIH-TLV or levels that may cause irritation.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

RESPIRATOR: For exposure above the ACGIH-TLV or OSHA-PEL, for Phosphoric Acid 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 4H, Saranex, Barricade, Neoprene or Butyl Rubber gloves. Note: Always consult the glove manufacturer's

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

CLOTHING & Wear a Neoprene or Butyl Rubber apron or full protective suit. An eye wash station and safety shower should be

EQUIPMENT: 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 or Butyl Rubber boots, or Natural Rubber boots with 4H inserts. 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 slightly hazy, greenish gold	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 / 0.1%			
Molecular Weight:	Not applicable	% Volatile:	No data available			
Boiling Point:	Greater than 100° C. (212° F.)	Solubility in H₂O:	Complete			
Freezing/Melting Point:	Less than 0° C. (32° F.)	Octanol/Water Partition Coefficient:	No data available			
Specific Gravity:	1.40 – 1.55 @ 20° C.	pH (as is):	≤1.0			
Density (pounds/gallon):	Approximately 12.43	pH (1% solution):	Less than 2.5			

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: Contact with most metals (e.g. mild steel, Aluminum, Magnesium, Zinc & Copper), alloys of these

metals, caustics & alkali, sulfides, sulfites, cyanides and chlorine releasers.

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

oxides of phosphorus, potassium, nitrogen and calcium, with trace toxic oxide

amounts of sulfur, iron, zinc, manganese, magnesium, sodium and carbon.

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: **Phosphoric Acid Calcium Nitrate**

Eye Contact: Rabbit: 119 mg; Severe No data available

Skin Contact: Rabbit: 595 mg/24 hours; Severe No data available

Oral Rat LD50: 1,530 mg/kg 302 mg/kg

Dermal Rabbit LD₅₀: 2,740 mg/kg No data available

Inhalation Rat LC₅₀: Greater than 850 mg/m³/1 hour No data available

Human Data: Unreported Route Man LDLo: 220 mg/kg No data available

Other Toxicological Data: Oral Man TD_{Lo}: 1,286 uL/kg No data available

Carcinogenicity: No data available No data available

Teratogenicity: No data available No data available

Mutagenicity: No data available No data available Synergistic Products: None reported None reported

Target Organs: Eyes, Skin, Mucous membranes, Lungs & Eyes, Skin, Lungs, & Gastrointestinal tract

Gastrointestinal tract

Medical Conditions Skin, Respiratory or Gastrointestinal disorders

Skin, Respiratory or Gastrointestinal disorders Aggravated By Exposure:

Potassium Nitrate Nitric Acid Components:

Eye Contact: No data available No data available **Skin Contact:** No data available No data available Oral Rat LD50: No data available 3,750 mg/kg Dermal Rabbit LD50: No data available No data available Inhalation Rat LC₅₀: No data available No data available

Other Toxicological Data: Unreported Route Man LDLo: 110 mg/kg Oral Rabbit LD₅₀: 1,901 mg/kg

Carcinogenicity: No data available No data available

Oral Human LD_{Lo}: 430 mg/kg

Teratogenicity: Oral Rat TD_{Lo}: 21,150 mg/kg; Duration: (female 1-21 Oral Rat TD_{Lo}: 22 gm/kg (female 1-22 Days pregnant);

Days Pregnant) Effects on Embryo or Fetus - Fetotoxicity Effects on Fertility - Other measures of fertility

No data available

Bacteria - E Coli Gene Conversion: 5 pph Mutagenicity: No data available

Synergistic Products: None reported None reported

Target Organs: Eyes, Skin, Mucous membranes, Lungs, Gastrointestinal Eyes, Skin, Mucous membranes, Lungs, Gastrointestinal

tract & Teeth tract, Kidneys & Blood

Medical Conditions Skin, Respiratory or Gastrointestinal disorders Aggravated By Exposure:

Skin, Respiratory, Gastrointestinal, Kidney or Blood disorders

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:

Human Data:

This product is heavier than water, completely soluble in water and will affect the pH of the water. Inorganic phosphates, in contact with soil, sub-surface or surface waters, may be taken up by plants and utilized as essential nutrients. Phosphates may also form precipitates, usually with Calcium or Magnesium. The resultant compounds are insoluble, becoming part of the soil.

ENVIRONMENTAL CONSIDERATIONS:

The aquatic toxicity for this product is related to the pH of the water. For Rainbow trout, the reported LC₅₀ is about a pH of 4.0 for a 7 day bioassay. Other species may vary a bit from this pH level, but all are susceptible to acidic pH conditions.

SECTION 13: DISPOSAL CONSIDERATIONS

RCRA 40 CFR 261 CLASSIFICATON: 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.

SECTION 14: TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Corrosive liquid, acidic, inorganic, n.o.s. (Contains Phosphoric Acid, Nitric Acid)

Hazard Class: 8 UN Number: UN3264 Packing Group: |

Primary Label: Corrosive Subsidiary Label(s): None

Primary/Subsidiary Placards: Corrosive

DOT Reportable Quantity (RQ): 5,000 pounds (H₃PO₄) **RQ for Product:** 18,882 pounds (1,460 gallons)

Marine Pollutant: No

2012 North American Emergency Response Guidebook No.: 154

TDG PROPER SHIPPING NAME: Corrosive liquid, acidic, inorganic, n.o.s. (Contains Phosphoric Acid, Nitric Acid)

Hazard Class: 8 UN Number: UN3264 Packing Group:

Primary Label: Corrosive Subsidiary Label(s): None

Primary/Subsidiary Placards: Corrosive

TDG Reportable Quantity (RQ): * At least 5kg or 5 liters

TDG Schedule XII: Not listed

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Regulated Limit (RL): ** 230kg (H3PO4) **RL for Product:** 868.6 kg (560.4 liters)

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.

COMPONENTS: OSHA Target Organs: Eyes, Skin, Mucous membranes, Lungs, & Gastrointestinal tract Eyes, Skin, Lungs, & Gastrointestinal tract Eyes, Skin, Lungs, & Gastrointestinal tract Eyes, Skin, Mucous membranes, Lungs, Gastrointestinal tract Eyes, Skin, Mucous membranes, Lungs, Gastrointestinal tract Eyes, Skin, Mucous membranes, Lungs, Gastrointestinal tract, kidneys & Blood Carcinogenic Potential: Regulated by OSHA: No	
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Planning threshold: 10,000 pounds 10,000 pounds 10,000 pounds 10,000 pounds	
Section 313 (40 CFR 372):	
Listed Toxic Chemical: No (Delisted in 2000) Yes (Nitrate Compounds) Yes Yes (Nitrate Compounds)	
Reporting Threshold: Not applicable 10,000 pounds 10,000 pounds 10,000 pounds	
U.S. TSCA Status	
Listed (40 CFR 710): Yes Yes Yes Yes	
State Regulations State of California: Safe Drinking Water and Toxins Enforcement Act, 1986 (Proposition 65):	
Carcinogen: No No No No	
Reproductive Toxin: No 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:	
Ingredient Information:	
IDL Substance: Yes No Yes Yes	
DSL or NDSL Lists: DSL 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 formulated to contain any material, which the State of California has found to cause cancer and/or birth defects or other reproductive harm. However, as it contains very small amounts of 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:

When making solutions, always add this product to water, or other solutions, with adequate mixing to ensure a uniform solution. Do not add this product to hypochlorite bleaches, chlorine sanitizers or chlorinated cleaners as this liberates toxic Chlorine gas. Do not add this product to strong alkali or caustic materials and products, as this can liberate heat and toxic Ammonia gas.

SDS Revision Information: Revised Date: 9/03/2020

SDS Distributed by: Bio Huma Netics, Inc.

 Prepared By:
 Frank S. Pidgeon, Sr. EHSS Director
 Date Prepared:
 October 20, 2014

This Safety Data Sheet is provided as an information resource only. It should not be taken as a warranty or representation for which Bio Huma Netics, Inc. assumes legal liability. While Bio Huma Netics, Inc. believes the information contained herein is accurate and compiled from sources believed to be reliable, it is the responsibility of the user to investigate and verify its validity. The buyer assumes all responsibility of using and handling the product in accordance with applicable federal, state, and local regulations.