

SAFETY DATA SHEET HUMA GRO® Super Nitro



HMIS				
HEALTH	1			
FLAMMABILITY	0			
PHYSICAL HAZARD	0			
PPE	В			

PRODUCT IDENTIFIER: HUMA GRO® Super Nitro Product# 101

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

PRODUCT DESCRIPTION: A clear to slightly hazy, light brown liquid having no 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 slightly hazy, slightly alkaline, light brown 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, 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

SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS

				ACC	3IH	OS	HA
COMPONENT	CAS#	OSHA HAZARD	<u>WT %</u>	$TLV_{(TWA)}$	STEL	$PEL_{(TWA)}$	STEL
Ammonium Nitrate	6484-52-2	Oxidizer; Eye, Skin & Respiratory Irritant; Blood toxin	38 ± 3	None	None	None	None
Urea	57-13-6	Eye Irritant; Slight to Moderate Skin & Respiratory Irritant; Slightly Toxic by Chronic Dermal Contact & Inhalation, with Cardiovascular & Central Nervous System effects.	32 ± 3	None AIHA WEEL: 10 mg/m³	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

This product does not flash. Flashpoint and Method:

Flammable Limits (in air, % by volume) **Lower:** Not applicable Upper: Not applicable

Autoignition Temperature: Not applicable

GENERAL HAZARD: This product is an aqueous, slightly alkaline solution of organic and inorganic compounds with very 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, 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 carbon

monoxide, carbon dioxide and nitrogen oxides plus trace or ultra-trace toxic oxide amounts, of, iron, sulfur, manganese, magnesium, potassium, phosphorus, 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 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.

Note: This product contains Ammonium Nitrate, an oxidizing fertilizer. Do not allow this concentrated product to dry in contact with combustible organic materials or reducing agents as a reaction may occur, releasing heat and possibly

toxic gasses.

RELEASE TO

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 WATER:

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 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 slightly hazy, light brown	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 / Organic Matter:	Nil / 11.2%			
Molecular Weight:	Not applicable	% Volatile:	Approximately 29			
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:	1.20 – 1.35 @ 20° C.	pH (as is):	7.0 - 8.5			
Density (pounds/gallon):	Approximately 10.6	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, reducing agents, caustics & strong alkali and readily oxidized materials or products.

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

oxides of carbon and nitrogen plus trace or ultra-trace toxic oxide amounts, of, iron, sulfur, manganese, magnesium, calcium, potassium, phosphorus, zinc and sodium.

SENSITIVITY TO MECHANICAL IMPACT: This product is not sensitive to mechanical impact.

SENSITIVITY TO STATIC DISCHARGE: This product is <u>not</u> sensitive to static discharge.

SECTION 11: TOXICOLOGICAL INFORMATION

Ammonium Nitrate Urea Components:

No data available

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

Oral Rat LD50: 2,217 mg/kg 8,471 mg/kg

Dermal Rabbit LD₅₀: No data available No data available (Rabbit, Subcutaneous LDLo: 3 gm/kg)

Inhalation Rat LC₅₀: No data available No data available (Rat, Inhalation, Chronic - Multiple Dose,

288 mg/m³/17 weeks; Toxic effects: Kidney, Ureter & Bladder Other changes in urine composition; Blood – Other changes;

Nutritional and gross metabolic changes.)

Human Data: No data available Dermal Human Standard Draize Test: 22 mg/3 days; Mild

No data available Other Toxicological Data: Rat, Dermal, Chronic - Multiple Dose, 3,024 mg/kg/4 weeks;

Toxic effects: Liver - Changes in Liver weight; Endocrine -

Changes in Thymus weight; Death.

Carcinogenicity: No data available Oral Rat TD_{Lo}: 821 gm/kg/1 year; Tumorigenic – Neoplastic by

RTECS criteria; Blood - Tumors; Blood - Lymphomax

including Hodgkin's disease.

No data available

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, Mucous membranes, Lungs & Blood 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 is not expected to 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: Not applicable Subsidiary Label(s): None Required

Primary/Subsidiary Placards: None Required

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: NOT RESTRICTED

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

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

Primary/Subsidiary Placards: None required

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: <u>Ammonium Nitrate</u> <u>Urea</u>

OSHA Target Organs:

Eyes, Skin, Mucous Eyes, Skin, Mucous membranes, Lungs & membranes, Lungs,

Blood 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 RCRA Waste No.: Not applicable Not applicable **Unlisted Substance:** Not applicable Not applicable Reportable Quantity: Not applicable Not applicable 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>Ammonium Nitrate</u> <u>Urea</u>

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

Nitrate compounds)

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 Reproductive Toxin: No No No

Other Regulations

State Right To Know Laws: NJ

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
 No

 DSL or NDSL Lists:
 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 a small amount 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: Store Super Nitro™ in a cool, dry, well ventilated, area away from incompatible materials and products. When making dilutions, always add this product to water, or aqueous solutions, with adequate mixing to ensure a uniform solution. Do not add strong alkali or caustics to this product, as that will liberate toxic Ammonia gas.

SDS Revision Information: Revised Date: 11/15/17

SDS Distributed by: Bio Huma Netics, Inc.

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

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