

SAFETY DATA SHEET HUMA GRO® Carbofol™



HMIS			
HEALTH	2		
FLAMMABILITY	1		
PHYSICAL HAZARD	0		
PPE	С		

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION				
PRODUCT IDENTIFIER:	HUMA GRO® Carbofol™ Product# 810			
GENERAL USE:	Used as a part of a plant nutrition program.			
PRODUCT DESCRIPTION:	A hazy to opaque, brown liquid having a unique characteristic odor.			
SUPPLIER INFORMATION:	Bio Huma Netics, Inc.	EMERGENCY PHONE NUMBERS		

1331 W Houston Avenue

Gilbert, AZ 85233

For Additional SDS call: PHONE: (480) 961-1220

(In the USA) 800-424-9300 **CHEMTREC:**

(International) 703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

HAZARDS OVERVIEW: A hazy to opaque, brown, slightly acidic liquid having a unique characteristic odor. Exposure to this product's mists or liquid can cause severe irritation to the eyes and may cause severe irritation to the skin and respiratory tract, especially on prolonged exposure. This product can be toxic upon ingestion.

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		OSHA HAZARD		ACGIH		OSHA	
	CAS#		<u>WT %</u>	$TLV_{(TWA)}$	STEL	PEL _(TWA)	STEL
Glycerin	56-81-5	Mild Eye & Skin Irritant; Mild to Moderate Respiratory Irritant	10 ± 1	10 mg/m ³ (Mists)	None	Mist:	None
		, ,		,		Total Dust = 15 mg/m ³	
						Respirable Fraction = 5 mg/m³	
Thyme Oil	8007-46-3	Combustible Liquid; Eye, Skin & Respiratory Irritant: Moderately Toxic by Ingestion	5 ± 1	None	None	None	None

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 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: Aspiration hazard. If any of this product aspirated during swallowing or vomiting may cause lung injury If ingested. Consideration should be given to careful endoscopy as stomach or esophageal irritation, possibly severe, 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 is not expected to flash.

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

Autoignition Temperature: Not Determined

GENERAL HAZARD: This product is an agueous solution of inorganic salts and natural plant oils. The Uniform Fire Code health hazard

classification for this product is: Irritant. This product may produce hazardous mists or hazardous decomposition

products.

EXTINGUISHING MEDIA: Water, foam, CO₂ or dry chemicals. FIRE FIGHTING INSTRUCTIONS:

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 and carbon dioxide, plus trace or ultra-trace toxic oxide amounts, of potassium, nitrogen, sulfur, zinc, manganese, iron, calcium and sodium, along with dense, irritating

smoke.

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 commercially absorbent material. 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. 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 the OSHA-PEL, ACGIH-TLV or levels that may cause irritation.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

RESPIRATOR: For exposure above the ACGIH-TLV, OSHA-PEL or levels that may cause irritation, 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, or Natural Rubber gloves. Note: Always consult the glove manufacturer's

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

CLOTHING & If contact is likely, wear a Neoprene, Nitrile, Butyl Rubber, or Natural Rubber apron when handling this product. An **EQUIPMENT:** eye wash station and safety shower should be available in the work area. **Note:** Always consult the

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						
Appearance:	Hazy to opaque, brown	Bulk Density (pounds/ft³):	Not applicable			
Physical State:	Liquid	Vapor Pressure:	No data available			
Odor:	Unique, 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 / Not applicable			
Molecular Weight:	Not applicable	% Volatile:	No data available			
Boiling Point:	Greater than 100° C. (212° F.)	Solubility in H₂O:	Dispersible			
Freezing/Melting Point:	Less than 0° C. (32° F.)	Octanol/Water Partition Coefficient:	No data available			
Specific Gravity:	1.00 – 1.10 @ 20° C.	pH (as is):	4.5 – 5.5			
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: Caustics & strong alkali, cyanides, sulfides, sulfites, chlorine releasers and all oxidizers.

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

oxides of carbon, plus trace or ultra-trace toxic oxide amounts, of potassium, nitrogen, sulfur, zinc, manganese, iron, calcium and sodium, along with dense,

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

Components: Proud 3 (Complete Industrial Product) Thyme Oil

Eye Contact: Classified as non-irritating to the eye No data available

(OPPTS 870.2400)

Skin Contact: Classified as moderately irritating to the skin but not No data available

(OPPTS 870.2500 & considered to be a contact sensitizer

870.2600)

Oral Rat LD₅₀ >2000 mg/kg No data available

(OPPTS 870.1100)

Dermal Rat LD₅o: >2000 mg/kg No data available

(OPPTS 870.1200)

Inhalation Rat LC₅₀: >2.08 mg/L No data available

(OPPTS 870.1300)

Human Data:

Other Toxicological Data: No data available No data available

Carcinogenicity: No data available No data available

Teratogenicity: No data available No data available

Mutagenicity:No data availableNo data availableSynergistic Products:None ReportedNone Reported

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

Medical Conditions

Aggravated By Exposure: Skin Skin or Respiratory disorders

Components: Glycerin

Eye Contact: Rabbit: 500 mg/24 hours; Mild
Skin Contact: Rabbit: 500 mg/24 hours; Mild

Oral Rat LD₅₀: 12,600 mg/kg

Dermal Rabbit LD₅₀: Greater than 10 gm/kg

Inhalation Rat LC₅₀: Greater than 570 mg/m³/1 hour

Human Data: Oral Human TD_{Lo}: 1,428 mg/kg; Headache,

Gastrointestinal effects

Other Toxicological Data: Oral Mouse LD₅₀: 4,090 mg/kg

Carcinogenicity: No data available

Teratogenicity: Oral Rat TD_{Lo}: 100 mg/kg (male 1 Day prior to mating)

Effects on Fertility – Post-implantation mortality

Mutagenicity: Human DNA Inhibition; Lymphocyte: 200 mmol/Liter

Synergistic Products: None reported

Target Organs: Eyes, Skin, Mucous membranes, Lungs & Kidneys

Medical Conditions

Aggravated By Exposure: Skin, Respiratory or Kidney disorders

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:

This product is heavier than water, somewhat dispersible in water and it is not expected to significantly affect the pH of the water.

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

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

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

^{*} 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: Thyme Oil Glycerin

OSHA Target Organs: Eyes, Skin, Mucous Eyes, Skin, Mucous membranes & Lungs membranes, Lungs &

Kidneys

Carcinogenic Potential:

Regulated by OSHA:NoNoListed on NTP Report:NoNoListed by IARC:NoNo

IARC Group:

ACGIH Appendix A:

A1 Confirmed Human:

A2 Suspected Human:

Not applicable

Not applicable

Not applicable

Not applicable

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:** Yes Not applicable Reportable Quantity: 100 pounds Not applicable Characteristic: Ignitibility Not applicable RCRA Waste No.: Not listed Not applicable

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: Not listed Not listed
Reporting Threshold: Not applicable 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 No Reproductive Toxin: No No No

Other Regulations

State Right To Know Laws: MA, PA MA, PA

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 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 may liberate toxic, corrosive Chlorine gas. Do not add this product to strong alkali or caustics as this may release heat and toxic Ammonia gas.

SDS Revision Information: Revised Date: 9/08/2020

SDS Distributed by: Bio Huma Netics, Inc.

Prepared By:Frank S. Pidgeon, Sr. EHSS DirectorDate Prepared:October 21, 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.