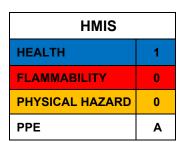


# SAFETY DATA SHEET Probiotic Solutions® CarbonX™ 203



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SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION				
PRODUCT IDENTIFIER:	Probiotic Solutions® CarbonX™ 203 Product# 355			
GENERAL USE:	This product is used as a carbon source for Denitrification and Biological Phosphorus Removal			
PRODUCT DESCRIPTION:	A translucent green liquid having a unique odor.			
SUPPLIER INFORMATION:	Bio Huma Netics, Inc.	EMERGENCY PHONE NUMBERS		

Gilbert, AZ 85233

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

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

(International) 703-527-3887

# **SECTION 2: HAZARDS IDENTIFICATION**

HAZARDS

A translucent green liquid having a unique odor. The liquid and mists may cause mild irritation to the eyes and

OVERVIEW: Skir

**CLASSIFICATION: HAZARD CATEGORY 3 - MILD SKIN IRRITATION** 

**SIGNAL WORD: WARNING** 

HAZARD STATEMENT: H316 - WARNING - causes mild skin irritation

PRECAUTIONARY STATEMENT: P332+P313; If skin irritation occurs: Get medical attention/advice.

# **SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS**

				ACGIH		os	HA
COMPONENT	CAS#	OSHA HAZARD	<u>WT %_</u>	$\text{TLV}_{(\text{TWA})}$	STEL	$PEL_{(TWA)}$	STEL
Methanol	67-56-1	Hazardous in case of skin contact (irritant), of eye contact (irritant),	1 ± 0.25	200 ppm	250 ppm	200 ppm	250 ppm
		of ingestion, of inhalation. Slightly hazardous in case of skin contact (permeator).				260 mg/m <sup>3</sup> Limit for air contaminants	325 mg/m <sup>3</sup> Limit for air contaminants

Note: The remaining ingredients in this product mixture are non-hazardous according to OSHA 29 CFR 1910.1200

**SECTION 4: FIRST AID MEASURES** 

If inhaled, immediately move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If INHALATION:

breathing is difficult, give oxygen. Call a physician.

In case of contact, immediately flush eyes with plenty of clean running water for at least 15 minutes, lifting the upper **EYE CONTACT:** 

and lower lids occasionally. Remove contact lenses, if worn. Get medical attention if irritation persists.

In case of contact, flush skin with plenty of clean running water. Remove contaminated clothing and shoes and wash SKIN CONTACT:

before reuse. If irritation occurs and persists, get medical attention.

If swallowed, get medical attention immediately. DO NOT induce vomiting unless directed to do so by medical INGESTION:

personnel. Never give anything by mouth to an unconscious person.

**NOTE TO** PHYSICIANS: Based on component information, this product may be 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: Not applicable Upper: Not applicable

**Autoignition Temperature:** Not Determined

**GENERAL HAZARD:** This product is an aqueous solution of inorganic salts and other organic and inorganic plant nutrients. The

Uniform Fire Code health hazard classification for this product is: Irritant. This product may produce mists that

are mildly irritating to the skin, eyes and respiratory tract.

FIRE FIGHTING INSTRUCTIONS: **EXTINGUISHING MEDIA:** 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.

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 carbon monoxide, carbon

> dioxide, zinc, manganese, iron and copper oxides, with trace or ultra-trace toxic oxide amounts, of potassium, phosphorus, nitrogen, sulfur, magnesium, calcium, boron, cobalt

and sodium plus irritating smoke.

**SECTION 6: ACCIDENTAL RELEASE MEASURES** 

**RELEASE TO** 

Wearing recommended protective equipment and clothing, dike the spill and pick up the bulk of liquid using pumps or LAND: 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:

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: STORAGE PRESSURE: Ambient Ambient

Store in a cool, dry, well-ventilated area away from incompatible materials and products. Avoid getting this product in eyes, **GENERAL:** 

on skin or on clothing. Wear recommended personnel protective equipment when handling this product. Do not breathe mists, vapors, fumes or aerosols. 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:** 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 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, or full protective clothing when handling this material. An eve wash station and safety shower should be available in the work area. **Note:** Always consult the

material. 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				
Appearance:	Translucent green color	Bulk Density (pounds/ft³):	Not applicable	
Physical State:	Liquid	Vapor Pressure:	No data available	
Odor:	Unique odor	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 / 14.45%	
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:	1.00 – 1.20 @ 20° C.	pH (as is):	3.5 - 4.5	
Density (pounds/gallon):	Approximately 10.0	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:** Contact caustics & alkali, strong oxidizers, sulfides, sulfites, cyanides and chlorine releasers.

HAZARDOUS DECOMPOSITION PRODUCTS: When heated to dryness and decomposition, it emits toxic oxides of carbon, zinc,

manganese, iron and copper, with trace or ultra-trace toxic oxide amounts, of potassium, phosphorus, nitrogen, sulfur, magnesium, calcium, boron, cobalt and

sodium plus irritating smoke.

**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: <u>Methanol</u>

Eye Contact:Rabbit: No eye irritationSkin Contact:Rabbit: Not skin irritationOral Rat LD50:1,187 - 2,769 mg/kg

Dermal Rabbit LD<sub>50</sub>: 17,100 mg/kg

**Inhalation Rat LC**<sub>50</sub>: 128.2 mg/l (4 hours) 87.6 mg/l (6 hours)

Human Data: No data available

Other Toxicological Data: No data available

Carcinogenicity: Negative

**Teratogenicity:** Classified possible for human

Mutagenicity: Mutagenic for mammalian somatic cells

Synergistic Products: None reported

Target Organs: Blood, kidneys, liver, brain, peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS), optic

nerve.

**Medical Conditions** 

Aggravated By Exposure: Skin disorders

## **SECTION 12: ECOLOGICAL INFORMATION**

#### **ENVIRONMENTAL FATE:**

This product is completely soluble in water and can 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): Not applicable

Primary/Subsidiary Placards: Not applicable

DOT Reportable Quantity (RQ): No RQ for Product: No

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: Not applicable Subsidiary Label(s): N/A

Primary/Subsidiary Placards: N/A

TDG Reportable Quantity (RQ): \* Not applicable
TDG Schedule XII: Not applicable

Regulated Limit (RL): \*\* Not applicable RL for Product: Not Applicable

Other Shipping Information: None

<sup>\*</sup> 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: Methanol

OSHA Target Organs: Blood, kidneys, liver, brain,

peripheral nervous system, upper respiratory tract, skin, central nervous system (CNS), optic nerve.

**Carcinogenic Potential:** 

Regulated by OSHA: No
Listed on NTP Report: No
Listed by IARC: No

IARC Group:

ACGIH Appendix A:

A1 Confirmed Human:

A2 Suspected Human:

Not applicable

Not applicable

## U.S. EPA Requirements

**Release Reporting** 

**CERCLA** (40 CFR 302)

Listed Substance:Not listedReportable Quantity:Not applicableCategory:Not applicableRCRA Waste No.:Not applicable

Unlisted Substance: Yes

Reportable Quantity: 5,000 pounds
Characteristic: Ignitable
RCRA Waste No.: D001

# **SARA TITLE III**

Section 302 & 303 (40 CFR 355):

Listed Substance: Not listed
Reportable Quantity: Not applicable
Planning Threshold: Not applicable

Section 311 & 312 (40 CFR 370):

Hazard Categories (product): Fire: N Sudden Release of Pressure: N Reactive: N Acute Health: N Chronic Health: Y

Planning threshold: 10,000 pounds

Section 313 (40 CFR 372):

Listed Toxic Chemical: Yes

Reporting Threshold: 5,000 lbs (Methanol 100%)

**U.S. TSCA Status** 

Listed (40 CFR 710): Yes

# State Regulations

State of California: Safe Drinking Water and Toxins Enforcement Act, 1986 (Proposition 65):

Carcinogen: No Reproductive Toxin: Yes

Other Regulations

State Right To Know Laws: MA, NJ, PA

Canadian Regulations

**Product Information:** 

Controlled Product: Yes

WHMIS Hazard Symbols: Flammable Liquid/Toxic Material Causing Immediate and Serious Toxic Effects

WHMIS Class & Division: B-2/D1B

Ingredient Information:

IDL Substance: Yes

DSL or NDSL Lists:

DSL

		SECTION 16: C	THER INFORMAT	TION	
EPA Registratio	n number	Not applicable	THER INI ORMA	TON	
Approved Produ		Used as a complete microbial nu	itritional program fo	r soil and water remediation	
Approved Frodi	uci Oses.	Osed as a complete microbial no	ilinlional program to	Soli and water remediation	
Special Notes:					
Special Instructions:  When making solutions, always add Carbon X™ 203 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 a lot of heat and toxic Ammonia gas.					
SDS Revision Info	ormation:	Revision Date: 9/03/2020			
SDS Distributed	<b>d by:</b> Bio Hum	a Netics, Inc.			
Prepared By:	Frank S. Pido	geon, Sr. EHSS Director	Date Prepared:	June 7 <sup>th</sup> 2018	
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