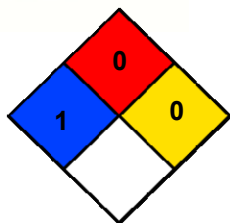




SAFETY DATA SHEET

Probiotic Solutions® Micro Plex-HCD

Rev B 1/25/18



HMIS	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PPE	A

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT IDENTIFIER: Probiotic Solutions® Micro Plex-HCD	Product # 952
GENERAL USE: Used in biological wastewater treatment plants.	
PRODUCT DESCRIPTION: Micro-Plex HX is an activated carbon 35% (CAS 7440-44-0) and Non-pathogenic, naturally occurring microorganisms absorbed on wheat bran and corn gluten.	
INFORMATION PROVIDED BY: Bio Huma Netics, Inc. 1331 W Houston Avenue Gilbert, AZ 85233	EMERGENCY PHONE NUMBERS
For SDS call: PHONE: (480) 961-1220	CHEMTREC: (In the USA) 800-424-9300 (International) 703-527-3887

SECTION 2: HAZARDS IDENTIFICATION



CLASSIFICATION: HAZARD CATEGORY 2 and 2A

SIGNAL WORD: WARNING

HAZARD STATEMENT: H319 – Causes serious eye irritation, H315 Causes skin irritant

PRECAUTIONARY STATEMENT:

P264 - Wash hands thoroughly after handling.

P280; Wear protective gloves, clothing, and eye protection.

P302 + P352; IF ON SKIN: Gently wash area with soap and plenty of water.

P305 + P351 + P338; IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313; If skin irritation occurs, get medical attention/advice.

P337 + P313; If eye irritation persists: Get medical attention/advice.

P362 + P364; Take off contaminated clothing and wash it before reuse.

P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

Additional Information: Crystalline silica is a known cause of silicosis (a non-cancerous lung disease). Prolonged and/or repeated inhalation must be avoided.

SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS

COMPONENT	CAS #	OSHA HAZARD	WT %	TLV _(TWA)	ACGIH		OSHA	
					STEL	PEL _(TWA)	STEL	
Dolomite	16389-88-1	Inhalation, eye and skin irritant	<40%	10 mg/m3	None	5 mg/m3	None	
Urea	57-13-6	Inhalation/Irritant	1-3%	10 mg/m3 {3*	None	15 mg/m3 {5}*	None	
Diammonium Phosphate	7783-28-0	Eye and skin irritant	<1%	10 mg/m3 {3}*	None	15 mg/m3 {5}*	None	
Crystalline Silica	14808-60-7	Inhalation	<0.4%	0.1 mg/m3	None	0.1 mg/m3	None	

* Specific limits not set for these chemicals. Limits are shown for Particles Not Otherwise Regulated (PNOR) or Particles Not Otherwise Classified (PNOC). First number is for total dust second number { } is for respirable dust

SECTION 4: FIRST AID MEASURES

INHALATION:

May cause sensitization by inhalation in hypersensitive individuals. Avoid product handling which results in dust generation. If inhaled, remove from contaminated area to fresh air. Report situation. Seek medical attention if allergic response exhibited.

EYE CONTACT:

Product may cause eye irritation. Direct contact with eyes should be avoided. In case of contact with eyes, flush eyes with water for at least 15 minutes. If irritation persists, seek medical attention.

SKIN CONTACT:

Product may cause skin irritation. Direct contact with skin should be avoided. In case of contact with skin, wash skin with soap and water. Remove contaminated clothing and wash.

INGESTION:

Ingestion of material may cause mouth and throat irritation and/or gastric disturbance. If swallowed, rinse mouth and throat with tap water. Drink water.

ADDITIONAL INFORMATION:

Product is not listed with IARC, NTP, ACGIH or OSHA as a carcinogen.

SECTION 5: FIRE FIGHTING MEASURES

Flashpoint and Method: This product does not flash.

Flammable Limits (in air, % by volume) **Lower:** No data available **Upper:** No data available

Autoignition Temperature: Not determined

GENERAL HAZARD: This product is a solid organic compound. The Uniform Fire Code health hazard classification for this product is: **Irritant**.

FIRE FIGHTING INSTRUCTIONS:

EXTINGUISHING MEDIA: Water fog, foam, CO₂ or dry chemicals.
Use a water fog or spray 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:

This material is not highly combustible but contains organic matter which may be explosive as a dust in very high concentrations. Generally considered a low explosion hazard.

SECTION 6: ACCIDENTAL RELEASE MEASURES

RELEASE TO LAND:

Spilled product should be removed immediately to avoid formation of dust. Dispose of in accordance with federal, state and local requirements

RELEASE TO WATER:

Spilled product should be removed immediately to avoid formation of dust. Dispose of in accordance with federal, state and local requirements

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. Avoid creating dust. Adequately ventilate when handling this product. Provide eyewash capability. Store in a suitable container, No special requirements. This material is not highly combustible but contains organic matter which may be explosive as a dust in very high concentrations. Generally considered a low explosion hazard.

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, above the ACGIH-TLV, AIHA WEEL or levels that may cause irritation.

RECOMMENDED PERSONAL PROTECTIVE EQUIPMENT

RESPIRATOR: Respiratory protection is not normally required. If use creates dusts, 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 may be required. **Note:** Always consult the respirator manufacturer's data when determining the suitability of respiratory protective devices prior to use.

EYES: Safety glasses or goggle are not necessary when handling this product but if utilized wear chemical goggles/safety glasses recommended by ANSI Z87.1-1979. **Note:** Always consult the protective eyewear manufacturer's data when determining the suitability of protective eyewear prior to use.

GLOVES: Use rubber or vinyl gloves when handling this product. **Note:** Always consult the glove manufacturer's permeation data when determining the suitability of gloves prior to use.

CLOTHING & EQUIPMENT: Protective clothing is not necessary when handling this product but if utilized wear a rubber or vinyl apron. 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: Protective footwear is not necessary when handling this product. **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:	Tan granular powder	Bulk Density (pounds/ft³):	Not applicable
Physical State:	Solid	Vapor Pressure:	No data available
Odor:	Slight organic odor	Vapor Density (air=1):	No data available
Odor Threshold:	No data available	Evaporation Rate (n-Butyl Acetate=1):	Not applicable
Molecular Formula:	Mixture	VOC Content / Organic Matter:	Nil / No data available
Molecular Weight:	Not applicable	% Volatile:	No data available
Boiling Point:	Not applicable	Solubility in H₂O:	<5%
Freezing/Melting Point:	No data available	Octanol/Water Partition Coefficient:	No data available
Specific Gravity:	No data available	pH (as is):	Not applicable
Density (pounds/gallon):	No data available	pH (1% solution):	6 to 9

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 alkaline materials and antimicrobial chemicals.

HAZARDOUS DECOMPOSITION PRODUCTS: None known

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

SENSITIVITY TO STATIC DISCHARGE: This material is not highly combustible but contains organic matter which may be explosive as a dust in very high concentrations. Generally considered a low explosion hazard.

SECTION 11: TOXICOLOGICAL INFORMATION (additional toxicological information in section 16)

Components:	<u>Complete Industrial Product</u>
Eye Contact:	Irritating to eyes
Skin Contact:	Irritating to skin
Oral Rat LD₅₀:	No data available
Dermal Rabbit LD₅₀:	No data available
Inhalation Rat LC₅₀:	No data available
Human Data:	No data available
Other Toxicological Data:	No data available
Carcinogenicity:	No data available; This product does not contain any known or anticipated carcinogens according to criteria of the NFP Annual Report on carcinogens and OSHA 29 CFR § 1920, Z Product is not listed with IARC, NTP, ACGIH or OSHA as a carcinogen.
Teratogenicity:	No data available
Mutagenicity:	No data available
Synergistic Products:	None reported
Target Organs:	Eyes, Skin, Mucous membranes
Medical Conditions Aggravated By Exposure:	Skin disorders

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL FATE:

This product is completely soluble in water and is not expected to affect the pH of water. No specific environmental fate data is available, but the organic portion of this product is expected to be biodegradable.

ENVIRONMENTAL CONSIDERATIONS:

The aquatic toxicity for this product has not been determined.

SECTION 13: DISPOSAL CONSIDERATIONS

RCRA 40 CFR 261 CLASSIFICATION: 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-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 15: REGULATORY INFORMATION (Continued)

U.S. TSCA Status

Listed (40 CFR 710): No

State Regulations

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

Carcinogen: No

Reproductive Toxin: No

Other Regulations

State Right To Know Laws: None

Canadian Regulations

Product Information:

Controlled Product: No

WHMIS Hazard Symbols: NA

WHMIS Class & Division: NA

Ingredient Information:

IDL Substance: No

DSL or NDSL Lists: DSL

SECTION 16: OTHER INFORMATION

EPA Registration number: Not applicable

Approved Product Uses: Used in biological wastewater treatment plants.

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.

Special Instructions:

Store Micro Plex-HCD in a cool, dry, well ventilated, area away from incompatible materials and products. Do not add strong alkali, caustics, oxidizers or antimicrobial chemicals to this product.

SDS Revision Information: Revised Date: 1/25/18

SDS Distributed by: Bio Huma Netics, Inc.

Prepared By: Frank S. Pidgeon, Sr. EHSS Director

Date Prepared: October 21st 2016

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