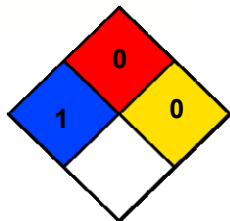




SAFETY DATA SHEET

Probiotic Solutions® Micro Plex-N

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-N	Product # 954
GENERAL USE: Used in biological wastewater treatment plants receiving wastes containing ammonia.	
PRODUCT DESCRIPTION: Light pink to red liquid having a mild odor.	
INFORMATION PROVIDED BY: Bio Huma Netics, Inc. 1331 W Houston Avenue Gilbert, AZ 85233 For SDS call: PHONE: (480) 961-1220	<div style="border: 1px solid black; padding: 5px; color: red; font-weight: bold;">EMERGENCY PHONE NUMBERS</div> CHEMTREC: (In the USA) 800-424-9300 (International) 703-527-3887

SECTION 2: HAZARDS IDENTIFICATION

HAZARDS OVERVIEW:	Light pink to red liquid having a mild odor.
	CLASSIFICATION: HAZARD CATEGORY 5
	SIGNAL WORD: WARNING
	HAZARD STATEMENT: May be harmful if inhaled (H333)
	PRECAUTIONARY STATEMENT: P304 + P312 – IF INHALED: Call a POISON CENTER or doctor if feeling unwell.
	Additional Information: None
	Other Hazards: May aggravate asthmatic, bronchial systems

SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS

COMPONENT	CAS #	OSHA HAZARD	WT %	ACGIH		OSHA	
				TLV _(TWA)	STEL	PEL _(TWA)	STEL
Viable bacterial cultures (nitrifying) in water	7732-18-5	Inhalation, eye and skin irritant	≥95%	None	None	None	None
Ammonia Salts	NA	None	≤1%	35 mg/m ³ (ammonia)	None	None	None
Nitrate Salts	NA	None	≤1%	5 mg/m ³ (nitric acid)	None	None	None

SECTION 4: FIRST AID MEASURES

INHALATION: May aggravate asthmatic, bronchial systems. If inhaled, remove from contaminated area to fresh air. Report situation. Seek medical attention if allergic response exhibited.

EYE CONTACT: Product is not known to cause eye irritation. However, it is recommended that direct contact with eyes be avoided. In case of contact with eyes, flush eyes with low pressure water for at least 15 minutes. If irritation persists, seek medical attention.

SKIN CONTACT: May lead to opportunistic infection of broken skin. In case of contact with skin, wash skin with soap and water. Remove contaminated clothing and wash. If irritation persists seek medical attention.

INGESTION: Ingestion of material may cause gastric disturbance. If swallowed, rinse mouth and throat with tap water. Seek medical attention.

NOTE TO PHYSICIANS: Treat exposure symptomatically.

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: 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. Material will become slippery if wet.

HAZARDOUS COMBUSTION PRODUCTS: This material is not highly combustible.

SECTION 6: ACCIDENTAL RELEASE MEASURES

RELEASE TO LAND: Wash down area with detergent and thoroughly rinse. Dispose of in accordance with federal, state and local requirements

RELEASE TO WATER: Not applicable, product can be used in water treatment plant.

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.

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 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:	Light pink to red liquid	Bulk Density (pounds/ft³):	Not applicable
Physical State:	Liquid	Vapor Pressure:	No data available
Odor:	Mild 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:	Nil / No data available
Molecular Weight:	Not applicable	% Volatile:	No data available
Boiling Point:	No data available	Solubility in H₂O:	Soluble
Freezing/Melting Point:	No data available	Octanol/Water Partition Coefficient:	No data available
Specific Gravity:	No data available	pH (as is):	6.0 to 8.0
Density (pounds/gallon):	No data available	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 100° F (37.7° C)

INCOMPATIBLE MATERIAL: Strong acids, bases or oxidizers

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.

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

Components:	<u>Complete Industrial Product</u>
Eye Contact:	May be infected by viable organisms
Skin Contact:	May exhibit dermal sensitivity
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:	None
Teratogenicity:	No data available
Mutagenicity:	None reported
Synergistic Products:	None reported
Target Organs:	Eyes, Skin, lungs
Medical Conditions Aggravated By Exposure:	Respiratory 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: Quartz (WHMIS)

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: To balance microbial ecosystems for bioremediation of water and soil for increased bio-oxidation.

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. Components not precisely identified are proprietary or non-hazardous.

The microbes in this product are Class 1 microbes, defined by the US Centers for Disease Control as not likely to cause disease in healthy humans and animals. However, contact with open wounds should be avoided; persons who have a compromised immune system or a history of severe allergic response should avoid contact and/or breathing dust or mist from product handling or manufacturing processes.

Special Instructions:

Store Micro Plex-N 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: January 25th 2017

This Material 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.