# SAFETY DATA SHEET Probiotic Solutions® Micro Plex-FLP

HMIS			
HEALTH	1		
FLAMMABILITY	0		
PHYSICAL HAZARD	0		
PPE	Α		

<b>SECTION 1:</b>	CHEMICAL	PRODUCT 8	& COMPANY	<b>IDENTIFICATION</b>
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Product #958 PRODUCT IDENTIFIER: **Probiotic Solutions® Micro Plex-FLP** 

**GENERAL USE:** Used in biological treatment plants receiving aqueous wastes from pulping and paper making operations.

PRODUCT DESCRIPTION: A tan granular powder having a slight organic odor.

INFORMATION PROVIDED BY: Bio Huma Netics, Inc.

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# **SECTION 2: HAZARDS IDENTIFICATION**

**HAZARDS OVERVIEW:**  A tan granular powder having a slight organic odor. Dust may be irritating to the eyes and skin, inhalation of dust may be irritating to the entire respiratory tract. Ingestion of this product may cause gastrointestinal irritation.



CLASSIFICATION: HAZARD CATEGORY 2 and 2A

**SIGNAL WORD: WARNING** 

HAZARD STATEMENT: H319 – eye irritant, H315 skin irritant

PRECAUTIONARY STATEMENT: P261 - Avoid breathing fumes or vapors.

P264 - Wash hands thoroughly after handling.

P272 - Contaminated work clothing should not be allowed out of the workplace.

P280 - Wear protective gloves.

P302 + P352 - IF ON SKIN: Wash 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.

P333 + P313 - If skin irritation or rash occurs, get medical advice/attention.

P337 + P313 - If eye irritation persists, get medical advice/attention.

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

0.1 mg/m3

None

0.1 mg/m3

None

### **ACGIH OSHA** COMPONENT CAS# **OSHA HAZARD STEL** $PEL_{(TWA)}$ STEL WT % TLV<sub>(TWA)</sub> **Dolomite** Inhalation, eye 5 mg/m3 16389-88-1 10 mg/m3 <45% None None and skin irritant 15 mg/m3 Urea 57-13-6 Inhalation/Irritant 10 mg/m3 {3\* 1-3% None None {5}\* 15 mg/m3 Eye and skin **Diammonium Phosphate** 7783-28-0 <1% 10 mg/m3 {3}\* None None irritant {5}\* **Protease** Inhalation, eye 0.00006 mg/m3 (as 9014-01-1 <1% None None None and skin irritant pure protease) 9000-90-2 Inhalation **Amylase** <1% None None None None **Crystalline Silica** 14808-60-7 <0.4%

SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS

Inhalation

<sup>\*</sup> 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.

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** 

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, CO<sub>2</sub> 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 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. **MEASURES:** 

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 &** Protective clothing is not necessary when handling this product but if utilized wear a rubber or vinyl apron. An **EQUIPMENT:** 

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)

Oxidizers, reducing agents, caustics, strong alkaline materials and antimicrobial chemicals. **INCOMPATIBLE MATERIAL:** 

HAZARDOUS DECOMPOSITION PRODUCTS: None known

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

This material is not highly combustible but contains organic matter which may be **SENSITIVITY TO STATIC DISCHARGE:** 

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: Complete Industrial Product

Eye Contact: Irritating to eyes

Skin Contact: Irritating to skin

Oral Rat  $LD_{50}$ : No data available Dermal Rabbit  $LD_{50}$ : No data available

Inhalation Rat LC<sub>50</sub>: 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

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 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-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: Not applicable Packing Group: Not applicable

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: Not applicable Packing Group: Not applicable

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

Primary/Subsidiary Placards: None Required

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

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: <u>Complete Industrial</u>

**Product** 

OSHA Target Organs: Not determined

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)

CERCLA (40 CFR 302)

**Listed Substance:** Not listed Not applicable Reportable Quantity: Category: Not applicable RCRA Waste No.: Not applicable **Unlisted Substance:** Not applicable Reportable Quantity: Not applicable Characteristic: Not applicable RCRA Waste No.: Not applicable

**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: Y Chronic Health: N

Planning threshold: 10,000 pounds

Section 313 (40 CFR 372):

Listed Toxic Chemical: Not listed
Reporting Threshold: Not applicable

# 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: 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.

# **Special Instructions:**

Store Micro Plex-FLP® 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

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