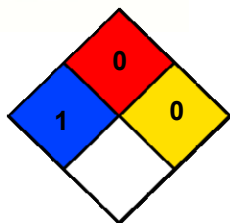




SAFETY DATA SHEET

Probiotic Solutions® MicroPlex® UASB

Rev A 11/29/18



HMIS	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PPE	A

SECTION 1: CHEMICAL PRODUCT & COMPANY IDENTIFICATION

PRODUCT IDENTIFIER:	Probiotic Solutions® MicroPlex® UASB	Product # 1962
GENERAL USE:	For anaerobic digestion of waste water.	
PRODUCT DESCRIPTION:	Tan granular powder having no odor.	
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

HAZARDS

OVERVIEW:

Tan granular powder having no odor.



CLASSIFICATION: HAZARD CATEGORY 2B – Eye Irritation/Hazard Category 3 – Skin Irritation

SIGNAL WORD: WARNING

HAZARD STATEMENT:

H320; Causes eye irritation; H315; Causes skin irritation

PRECAUTIONARY STATEMENT:

P264 - Wash thoroughly after handling.

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.

P332 + P313 - If skin irritation 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.

Additional Information: None

Other Hazards: May aggravate asthmatic, bronchial systems. Hypersensitive individuals are more at risk for sensitization.

SECTION 3: COMPOSITION & INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>CAS #</u>	<u>OSHA HAZARD</u>	<u>WT %</u>	<u>ACGIH TLV_(TWA)</u>	<u>STEL</u>	<u>OSHA PEL_(TWA)</u>	<u>STEL</u>
Dolomite	16389-88-1	Inhalation, eye and skin irritant	30-40%	10 mg/m3	None	5 mg/m3	None

SECTION 4: FIRST AID MEASURES

- INHALATION:** May cause irritation of respiratory tract. 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 or difficulty in breathing is exhibited.
- EYE CONTACT:** May cause eye irritation or injury. In case of contact with eyes, flush eyes with water for at least 15 minutes and seek medical attention.
- SKIN CONTACT:** May cause skin irritation. It is recommended that prolonged direct contact with skin 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 gastric disturbance, irritation. If swallowed, rinse mouth and throat with tap water. Consult physician if symptoms persist.
- 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:	Tan Granular Powder	Bulk Density (pounds/ft³):	Not applicable
Physical State:	Granular Powder	Vapor Pressure:	No data available
Odor:	None	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):	NA
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 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: Complete Industrial
Product

OSHA Target Organs: Not determined

Carcinogenic Potential:

Regulated by OSHA: No
Listed on NTP Report: No
Listed by IARC: No
IARC Group: No
ACGIH Appendix A: Not listed
A1 Confirmed Human: Not applicable
A2 Suspected Human: Not applicable

U.S. EPA Requirements

Release Reporting

CERCLA (40 CFR 302)

Listed Substance: Not listed
Reportable Quantity: Not applicable
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: NA

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: For anaerobic digestion of waste water.

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 UASB 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: NA

SDS Distributed by: Bio Huma Netics, Inc.

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

Date Prepared: November 29th 2018

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