BIO		SAFETY DA [®] tic Solutions	_			F	Rev A 1 -10-	-14
Incorporated						I	IMIS	
						HEA	LTH	1
						FLAMM	ABILITY	0
	•					PHYSICAL	HAZARD	0
						PF	Έ	Α
× ·	SECTION 1:	CHEMICAL PRODUCT	& COMP	ANY IDEN	FIFICATIO	N		
PRODUCT IDENT	IFIER: Probiotic	Solutions® MicroPlex-H	IS	Produc	t #951			
GENERAL USE:		lge, compost, contaminated degradation and contaminar					odors and	
PRODUCT DESCRI	PTION: A tan liquid	having a slight organic odor						
INFORMATION PROVI		ouston Avenue		E	MERGENC	Y PHONE NU	JMBERS	
For S	·	(480) 961-1220		CHEN		n the USA) 80 ternational) 70		
		SECTION 2: HAZARDS	6 IDENTI	FICATION				
COMPONENT	SIGNAL WORD: W HAZARD STATEM PRECAUTIONARY P264 - Wash hand P272 - Contaminat P280 - Wear prote P302 + P352 - IF (P305 + P351 + P3 present and easy t P333 + P313 - If sl P337 + P313 - If sl P362 + P364 - Tak P501 - Dispose of	: HAZARD CATEGORY 2B VARNING IENT: H320 – Causes eye i Y STATEMENT: P261 - Avc s thoroughly after handling. ed work clothing should not	rritation, H id breathir be allowed nd plenty of iously with get medica dical advic and wash lance with	ng fumes or v d out of the w of water. water for se il advice/atter e/attention. it before reus local, regiona	apors. vorkplace. veral minute ntion. se. al, national, REDIENTS	es. Remove cor and internation	itact lenses	
Microbial Suspension		None	100	None	None		None	
aqueous medium								
INHALATION:	Remove individual to	SECTION 4: FIRST A			s exhibited	seek medical a	ttention	
EYE CONTACT:	In case of contact, im	mediately flush eyes with p ccasionally. Remove conta	lenty of cl	ean running	water for at	least 15 minut	es, lifting th	he
SKIN CONTACT:	In case of contact, flu	sh skin with plenty of clean irritation occurs and persists	running w	ater. Remov	e contamina		•	nd
INGESTION:	If swallowed, drink wa	ter, if symptoms persist con	sult a phys	sician.				
NOTE TO PHYSICIA	consideration possible centra	ponent information, this pro should be given to careful e al nervous system effects fo acheal tube in place should	ndoscopy	as stomach sorption into	or esophag the blood st	eal irritation ma ream. Careful g	y occur, wi	ith

S	ECTION 5	: FIRE FIGHTING MI	<u>EASURES</u>	
lits (in air, % by volume)	Lower:	No data available	Upper:	No data available
mperature: Not detern	nined			
D: This product is an ad product is: Irritant .	queous org	anic compound. The Un	iform Fire Code	health hazard classification for th
STRUCTIONS:			-	-
UIPMENT:	•	•	ective equipment	t, including self-contained breathin
IBUSTION PRODUCTS:	None kno	wn		
SECT	ION 6: AC	CIDENTAL RELEAS	E MEASURES	
		etative form, is considere	ed biodegradable	and intended as a soil amendme
Product is live microorgan	isms in veg	etative form and is consi	dered biodegrada	able.
	SECTION 7	: HANDLING AND S	TORAGE	
				RESSURE: Ambient
				ternally. Keep the container tigh
	I Method: This product hits (in air, % by volume) emperature: Not detern D: This product is an a product is: Irritant. ISTRUCTIONS: QUIPMENT: MBUSTION PRODUCTS: SECT Product is live microorgan Wash spilled product onto Product is live microorgan Wash spilled product onto Product is live microorgan SERATURE: Ambient re in a cool, dry, well-ven hing from contact with pro- id breathing vapors or mission Herein a cool, dry, well-ven hing from contact with pro- id breathing vapors or mission Product is not pro- product with pro- product with pro- product with pro- product with pro- product with pro- pro- product with pro-	I Method: This product does not flat nits (in air, % by volume) Lower: emperature: Not determined D: This product is an aqueous orgation product is: Irritant. ISTRUCTIONS: EXTINGU Use a wat QUIPMENT: Fire fighted apparatus MBUSTION PRODUCTS: None knot SECTION 6: AC Product is live microorganisms in veg Wash spilled product onto soil. Product is live microorganisms in veg Wash spilled product onto soil. Product is live microorganisms in veg Mash spilled product onto soil. Product is live microorganisms in veg Mash spilled product onto soil. Product is live microorganisms in veg Mash spilled product onto soil. Product is live microorganisms in veg Mash spilled product onto soil. Product is live microorganisms in veg Mash spilled product onto soil. Product is live microorganisms in veg Mash spilled product onto soil. Product is live microorganisms in veg Mash spilled product onto soil. Product is live microorganisms in veg Mash spilled product onto soil. Product is live microorganisms in veg Mash spilled product onto soil. Product is live microorganisms in veg Mash spilled product onto soil. Product is live microorganisms in veg Mash spilled product onto soil. Product is live microorganisms in veg Mash spilled product onto soil. Product is live microorganisms in veg Mash spilled product onto soil. Product is live microorganisms in veg Mash spilled product onto soil. Product is live microorganisms in veg Mash spilled product onto soil. Product is live microorganisms in veg Mash spilled product onto soil. Product is live microorganisms in veg Mash spilled product onto soil. Product is live microorganisms in veg Mash spilled product onto soil. Product is live microorganisms in veg Mash spilled product onto soil. Mash spilled product onto	 I Method: This product does not flash. nits (in air, % by volume) Lower: No data available emperature: Not determined 2D: This product is an aqueous organic compound. The Unproduct is: Irritant. ISTRUCTIONS: EXTINGUISHING MEDIA: Water Use a water fog or spray to cool the QUIPMENT: Fire fighters should wear full protapparatus. MBUSTION PRODUCTS: None known SECTION 6: ACCIDENTAL RELEAS Product is live microorganisms in vegetative form, is considered Wash spilled product onto soil. Product is live microorganisms in vegetative form and is considered wash spilled product onto soil. Product is live microorganisms in vegetative form and is considered wash spilled product onto soil. 	nits (in air, % by volume) Lower: No data available Upper: emperature: Not determined

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 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 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 are not necessary when handling this product but if gloves are utilized wear Neoprene or Nitrile gloves. GLOVES: 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 Neoprene apron. An eye wash station and safety shower should be available in the work area. Note: Always consult the EQUIPMENT: 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 liquid Bulk Density (pounds/ft3): Not applicable **Physical State:** Vapor Pressure: Liquid No data available Odor: Slight, organic Vapor Density (air=1): No data available **Odor Threshold:** Evaporation Rate (n-Butyl Acetate=1): No data available Less than 1 Molecular Formula: Mixture VOC Content: Nil % Volatile: Molecular Weight: Not applicable Approximately 32 **Boiling Point:** Solubility in H₂O: Soluble Greater than 100° C. (212° F.) **Octanol/Water Partition Coefficient:** Freezing/Melting Point: Less than 0° C. (32° F.) No data available **Specific Gravity:** pH (as is): 3.0 - 4.0 Approximately 1.0 @ 20° C. pH (1% solution): Density (pounds/gallon): Approximately 10.7 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: Oxidizers, reducing agents, caustics, strong alkaline materials and antimicrobial chemicals. HAZARDOUS DECOMPOSITION PRODUCTS: None known SENSITIVITY TO MECHANICAL IMPACT: This product is <u>not</u> sensitive to mechanical impact. SENSITIVITY TO STATIC DISCHARGE: This product is not sensitive to static discharge. 3

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

SECTION 11: 1	FOXICOLOGICAL INFORMATION (additional toxicological information in section 16)
Components:	Proprietary Bacterial Blend
Eye Contact:	No data available
Skin Contact:	No data available
Oral Rat LD₅₀:	No data available
Dermal Rabbit LD ₅₀ :	No data available
Inhalation Rat LC ₅₀ :	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	: TRANSPOF	RTATION INF	ORMATION		
DOT PROPER SHIPPING NAME:	NOT DOT REGULAT	ED (UNITED ST	ATES)			
	Hazard Class:	Not applicable	UN Number:	Not applicable	Packing Group:	Not applicable
	Primary Label:	None Required	Subs	sidiary Label(s):	None Required	
	Primary/Subsidi	ary Placards:	None Required			
DOT Reportable Quantity (RQ):	Not listed		RQ for Prod	luct: Not applica	able	
Marine Pollutant:	No					
2012 North American Emergency F	Response Guidebook	No.: No	t applicable			
TDG PROPER SHIPPING NAME:	NOT RESTRICTED					
	Hazard Class:	Not applicable	UN Number:	Not applicable	Packing Group:	Not applicable
	Primary Label:	None Required	Subs	sidiary Label(s):	None Required	
	Primary/Subsidi	ary Placards:	None Required			
TDG Reportable Quantity (RQ): #	Not applicable					
TDG Schedule XII:	Not listed					
Regulated Limit (RL): ##	Not listed		RL for Prod	uct: Not applica	able	
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:	Proprietary Bacterial	
	Blend	
OSHA Target Organs:	Not determined	
Carcinogenic Potential:		
Regulated by OSHA:	No	
Listed on NTP Report:	No	
Listed by IARC:	No	
IARC Group:	Not applicable	
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):		
. , ,	ire: 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)
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J.S. TSCA Status Listed (40 CFR 710):	No		
State Regulations	NO		
	king Water and Toxins Enforce	ment Act. 1986 (Proposit	ion 65):
Carcinogen:	No		
Reproductive Toxin:	No		
<u>Other Regulations</u> 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 10		TION
	SECTION IC	6: OTHER INFORM	TION
EPA Registration number:	Not applicable	: OTHER INFORM	ATION
-	Not applicable		n of water and soil for increased bio-oxidation.
Approved Product Uses:	Not applicable		
Approved Product Uses: Special Notes:	Not applicable To balance microbial ecosys	tems for bioremediatior	n of water and soil for increased bio-oxidation.
Approved Product Uses: Special Notes: This product is not ma	Not applicable To balance microbial ecosys	tems for bioremediatior contain substances, wi	
Approved Product Uses: Special Notes: This product is not ma cancer and/or birth defe	Not applicable To balance microbial ecosys nufactured, or formulated to	tems for bioremediatior contain substances, wi	n of water and soil for increased bio-oxidation.
Approved Product Uses: Special Notes: This product is not ma cancer and/or birth defe Special Instructions:	Not applicable To balance microbial ecosys nufactured, or formulated to ects or other reproductive harm	tems for bioremediatior contain substances, wh	n of water and soil for increased bio-oxidation. hich the State of California has found to cause
Approved Product Uses: Special Notes: This product is not ma cancer and/or birth defe Special Instructions: Store Micro Plex-HC® dilutions, always add th	Not applicable To balance microbial ecosys nufactured, or formulated to ects or other reproductive harm in a cool, dry, well ventilated is product to water, or aqueou	tems for bioremediation contain substances, wh n. , area away from incor us solutions, with adequ	n of water and soil for increased bio-oxidation.
cancer and/or birth defe Special Instructions: Store Micro Plex-HC® dilutions, always add th	Not applicable To balance microbial ecosys nufactured, or formulated to ects or other reproductive harm in a cool, dry, well ventilated	tems for bioremediation contain substances, wh n. , area away from incor us solutions, with adequ	n of water and soil for increased bio-oxidation. hich the State of California has found to cause npatible materials and products. When making
Approved Product Uses: Special Notes: This product is not ma cancer and/or birth defe Special Instructions: Store Micro Plex-HC® dilutions, always add th	Not applicable To balance microbial ecosys nufactured, or formulated to ects or other reproductive harm in a cool, dry, well ventilated is product to water, or aqueou	tems for bioremediation contain substances, wh n. , area away from incor us solutions, with adequ	n of water and soil for increased bio-oxidation. hich the State of California has found to cause npatible materials and products. When making
Approved Product Uses: Special Notes: This product is not ma cancer and/or birth defe Special Instructions: Store Micro Plex-HC® dilutions, always add th add strong alkali, caust	Not applicable To balance microbial ecosys nufactured, or formulated to ects or other reproductive harm in a cool, dry, well ventilated is product to water, or aqueou ics or antimicrobial chemicals	tems for bioremediation contain substances, wh n. , area away from incor us solutions, with adequ	n of water and soil for increased bio-oxidation. hich the State of California has found to cause npatible materials and products. When making
Approved Product Uses: Special Notes: This product is not ma cancer and/or birth defe Special Instructions: Store Micro Plex-HC® dilutions, always add th	Not applicable To balance microbial ecosys nufactured, or formulated to ects or other reproductive harm in a cool, dry, well ventilated is product to water, or aqueou	tems for bioremediation contain substances, wh n. , area away from incor us solutions, with adequ	n of water and soil for increased bio-oxidation. hich the State of California has found to cause npatible materials and products. When making
Approved Product Uses: Special Notes: This product is not ma cancer and/or birth defe Special Instructions: Store Micro Plex-HC® dilutions, always add th add strong alkali, caust	Not applicable To balance microbial ecosys nufactured, or formulated to ects or other reproductive harm in a cool, dry, well ventilated is product to water, or aqueou ics or antimicrobial chemicals	tems for bioremediation contain substances, wh n. , area away from incor us solutions, with adequ	n of water and soil for increased bio-oxidation. hich the State of California has found to cause npatible materials and products. When making
Approved Product Uses: Special Notes: This product is not ma cancer and/or birth defe Special Instructions: Store Micro Plex-HC® dilutions, always add th add strong alkali, caust SDS Revision Information: SDS Distributed by: Bio Hu	Not applicable To balance microbial ecosys nufactured, or formulated to ects or other reproductive harm in a cool, dry, well ventilated is product to water, or aqueou ics or antimicrobial chemicals	tems for bioremediation contain substances, wh n. , area away from incor us solutions, with adequ	n of water and soil for increased bio-oxidation. hich the State of California has found to cause npatible materials and products. When making