

MATERIAL SAFETY DATA SHEET

PRODUCT: Huma-Cal & Huma-Cal Plus XL

SECTION I

Manufacturer's Name: 3Tier Technologies LLC
Address: 535 S. Nolen Drive, Suite 100
Southlake, TX 76092
Emergency Telephone: (877) 710-6953
Information Telephone: (407)-808-4653

SECTION II INGREDIENTS/IDENTITY INFORMATION

Hazardous Ingredients: None

Components: Ingredients not precisely identified are non-hazardous & proprietary.
All chemical ingredients appear on the EPA TSCA Inventory.
Values are not product specifications.

Ingredients of <1% have been added to a non-hazardous liquid organic substrate.
Active components <15% are proprietary.
Water, CAS# 7732-18-5, >84%.

OSHA PEL: None
ACGIH TLV: N/A
Other Limits: None

SECTION III PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:	100° C	Specific Gravity:	1.1 – 1.5 approx.
Vapor Pressure:	Equivalent to water	Melting Point:	N/A
Vapor Density:	Equivalent to water	Evaporation Rate:	N/D
Solubility in Water:	99%	HMIS:	Health-1
Appearance & Odor:	Brown/Black liquid Mild earthy odor		Fire-0 Reactivity-0
PH:	Range 7.5 to 9.5		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point:	N/A	Flammable Limits:	N/A
LEL:	N/A	UEL:	N/A
Extinguishing Media:	None		
Special Fire Fighting Procedures:	N/D		
Unusual Fire & Explosion Hazards:	N/A		
Fire & Explosion Hazard Summary:	Not considered to be a fire hazard.		

N/A = Not applicable N/D = Not determined

SECTION V REACTIVITY DATA

Stability: (Unstable/Stable)	Stable under normal conditions.
Conditions to Avoid:	Strong acids or alkali compounds may inactivate bio cultures.
Incompatibility:	Strong acids or alkali compounds.
Hazardous Decomposition or Byproducts:	N/A
Hazardous Polymerization:	Will not occur.

This is a non-toxic, nonpathogenic mixture of bacteria in a liquid media.

SECTION VI HEALTH HAZARD DATA

Routes of Entry	
Inhalation:	Will not occur.
Skin:	Prolonged contact may cause slight irritation.
Ingestion:	May cause sickness if ingested in large quantities.
Health Hazards:	None Known
Carcinogenicity:	N/A
NTP:	N/A
IARC Monographs:	N/A
OSHA Regulated:	N/A
Signs & Symptoms of Exposure:	<i>Ingestion:</i> No effect if ingested in small amounts. A single dose of this product is rarely toxic by ingestion. Irritation of the mouth, pharynx, esophagus and stomach can develop. <i>Eyes:</i> This material may cause eye irritation. <i>Skin:</i> Slight redness on hands and forearms if individual has a history of dermal allergic reactions. Dermatitis and skin sensitization can develop after repeated and/or prolonged contact.
Medical Conditions Generally Aggravated by Exposure:	May cause infection if in contact with open wounds.
Emergency & First Aid Procedures:	<i>Ingestion:</i> Give two glasses of water. Do not induce vomiting. Contact Physician. <i>Eyes:</i> Immediately flush with water for 15 minutes. Contact Physician. <i>Skin:</i> Remove contaminated clothing and footwear. Wash with soap and water.

SECTION VII PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken in case material is released or spilled:	Flush spilled materials into sanitary or storm sewers. Use chemical absorbent and sweep up small spills. Contain and collect large spills.
Waste and Disposal Method:	Dispose of in accordance with federal, state, and local regulations.
Precautions to be taken in Handling and Storing:	Minimize exposure in accordance with good hygiene practice. To maintain shelf life, avoid prolonged exposure to high or low temperatures and humidity. Avoid temperatures above 110 F and keep from freezing.
Other Precautions:	Keep out of reach of children.

SECTION VIII CONTROL MEASURES

Respiratory Protection:	None required for recommended use. Avoid creating aerosols in poorly ventilated areas.
Ventilation	
Local Exhaust:	Normal
Mechanical:	N/A
Special:	None
Other:	None
Protective Gloves:	Rubber gloves not necessary but recommended.
Eye Protection:	Safety glasses not necessary but recommended.
Other Protective Clothing or Equip:	As determined.
Work/Hygienic Practices:	Normal

N/A = Not applicable N/D = Not determined

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