

# MATERIAL SAFETY DATA SHEET

## Formula F50 Bio-Pure Bacteria

EFFECTIVE DATE 07/01/03

Diversified Waterscapes, Inc. urges each customer or recipient of this MSDS to study it carefully to become aware of and understand the hazards associated with the product. The reader should consider consulting reference works or individuals that are experts in ventilation, toxicology and fire prevention; as necessary or appropriate to use and understand the data contained in this MSDS.

To promote safe handling, each customer or recipient should: (1) notify its employees, agents, contractors and others whom it knows or believes will use this material or the information in this MSDS and any other information regarding hazards or safety (2) furnish this same information to each of its customers for the product (3) request its customers to notify their employees, customers and other users of the product of this information.

SECTION 1 – CHEMICAL PRODUCT & COMPANY IDENTIFICATION				
<b>Trade Name:</b>	Formula F50 Bio-Pure			
<b>CAS Name:</b>	Mixture			
<b>Product Description:</b>	A concentrated proprietary, nonhazardous biodegradable, dry material on a wheat bran base.			
<b>Manufactured For:</b>	Diversified Waterscapes, Inc.			
<b>Address:</b>	27324 Camino Capistrano #213, Laguna Niguel, CA 92677			
<b>Phone:</b>	Day: 949-582-5414			
SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS				
<b>Ingredient</b>	<b>CAS#</b>	<b>WT.%</b>	<b>TLV</b>	<b>OSHA PEL</b>
Viabile bacterial cultures (on wheat bran base)	NA 116469-86-4	100	NA	NA
Ingredients not precisely identified are proprietary or nonhazardous. All chemical ingredients appear on the EPA TSCA Inventory.				
SECTION 3 – PHYSICAL AND CHEMICAL PROPERTIES				
<b>Solubility in Water:</b>	Moderate—contains viable bacteria			
<b>pH:</b>	6.5–8.5			
<b>Bulk Density:</b>	Approximately 0.66–0.77 gm/cm <sup>3</sup>			
<b>Appearance and Odor:</b>	Free flowing, tan-brown powder, yeast-like odor			
SECTION 4 – FIRE FIGHTING MEASURES				
<b>Fire &amp; Explosion:</b>	None known			
<b>Extinguishing Media:</b>	Water fog, fine spray, carbon dioxide, dry chemical or foam.			
<b>Fire Fighting Instructions:</b>	Wear self-contained breathing apparatus and protective clothing. Use water to cool containers. Turn off electrical service to eliminate any source of ignition.			
SECTION 5 – HAZARDS IDENTIFICATION & FIRST AID MEASURES				
<b>HMIS HAZARD RATINGS</b>				
<b>HEALTH – 1</b>	<b>FIRE – 1</b>	<b>REACTIVITY – 0</b>	<b>PERSONAL PROTECTION – See Section 8</b>	
<b>Routes of Entry:</b>	Product may enter the body via eye contact, skin contact and ingestion.			
<b>Potential Health Effects:</b>	Limited toxicity data is available on this specific product. This health hazard assessment is based on the results of screening tests.			
<b>Eye:</b>	Eye contact with product may cause irritation. Organisms used are non-pathogenic but can cause infection when in contact with open wounds. These organisms are susceptible to many commonly used antibiotics. Avoid eye contact with product.			
<b>Skin:</b>	Slight redness on hands and forearms if individual has a history of dermal allergic reaction. Dermatitis and skin sensitization can develop after repeated and/or prolonged contact with human skin.			
<b>Skin Absorption:</b>	Systemically toxic concentrations will probably not be absorbed through the skin in a human.			
<b>Ingestion:</b>	Swallowing may cause irritation of mouth and throat. It may also cause nausea. Do not taste or swallow product.			
<b>Inhalation:</b>	Product may produce nuisance dust which will irritate respiratory passages.			

## SECTION 5 – HAZARDS IDENTIFICATION & FIRST AID MEASURES

### FIRST AID MEASURES

<b>Eye Contact:</b>	IMMEDIATELY flush eyes with a directed stream of water for at least 15 minutes while forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. GET IMMEDIATE MEDICAL ATTENTION IF IRRITATION OCCURS.
<b>Skin Contact:</b>	Flush skin with water and wash with soap and water. If clothing is penetrated, immediately remove clothing and flush skin with water. Wash clothes before reuse. GET PROMPT MEDICAL ATTENTION IF IRRITATION OCCURS.
<b>Ingestion:</b>	No effect if ingested in small amounts. Relative to other materials, a single dose of this product is rarely toxic by ingestion. Irritation of the mouth, pharynx, esophagus and stomach can develop following ingestion. Get IMMEDIATE MEDICAL ATTENTION.
<b>Inhalation:</b>	Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, have trained person administer mouth-to-mouth resuscitation. GET MEDICAL ATTENTION IMMEDIATELY.

## SECTION 6 – STABILITY AND REACTIVITY

<b>Stability:</b>	Stable under normal conditions
<b>Materials to Avoid:</b>	Strong acids or alkali compounds
<b>Hazardous Decomposition Products:</b>	None
<b>Hazardous Polymerization:</b>	Will not occur

## SECTION 7 – ACCIDENTAL RELEASE MEASURES

Wear approved respirator for nuisance dust during cleanup. For all spills contain and collect for reuse.

<b>Disposal:</b>	Disposal of this product or its residues must be in accordance with a local, state and federal environmental regulations.
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## SECTION 8 – EXPOSURE CONTROLS, PERSONAL PROTECTION

Minimize exposure in accordance with good hygiene practice. Avoid handling which would create large amounts of dust.

<b>Ventilation:</b>	General mechanical ventilation.
<b>Respiratory Protection :</b> (specify type)	If needed, use MSHA-HIOSH approved respirator for nuisance dust.
<b>Protective Clothing:</b>	Take all precautions to prevent skin contact, long sleeve clothing.
<b>Eye Protection:</b>	Safety glasses recommended if used in a manner that creates dust.
<b>Other Protective Equipment:</b>	As determined or recommended by federal, state and local regulations.

## SECTION 9 – HANDLING AND STORAGE

<b>Storage Temperature:</b>	Store this product below 120° F (49° C), preferably below 75° F (24° C), in a cool, dry, well ventilated area away from heat, sparks, flame, oxidizers and out of direct sunlight. For best results use within 12 months. Never co-mingle with bactericides or quaternary disinfectants, as they will degrade/inactivate bacteria.
<b>General Precautions:</b>	Keep container closed when handling or storing.

## SECTION 10 – OTHER INFORMATION

**Disclaimer:** The information contained herein is based upon data available to us and reflects our best professional judgement. However, no warranty is expressed or implied regarding the accuracy of such information or the results obtained from the use thereof. We assume no legal responsibility whatsoever for any damage resulting from reliance upon this information since it is being furnished upon the condition that the person receiving it shall make his or her own determination of the suitability of the material described herein for a particular application or storage situation.