

MATERIAL SAFETY DATA SHEET — F-55 Bio-Zyme

Section 1— Chemical Product & Company Identification			
Trade Name:	F-55 Bio-Zyme	Revision Date: 02/03/2003	
CAS Name:	Mixture		
Product Description:	A concentrated non-bacterial readily biodegradable, enzymatic solution.		
Manufacturer's Name:	Diversified Waterscapes, Inc.		
Address:	27324 Camino Capistrano #213, Laguna Niguel, Ca. 92677		
Phone:	Day: 949-582-5414	Evening: Same	
Section 2— Composition/Information on Ingredients			
Name	CAS#	WT.%	TLV
F-55 Bio-Zyme is a proprietary composition "not considered hazardous" under the OSHA Hazard Communication Standard CFR Title 29 1910.1200			
Section 3— Physical and Chemical Properties			
Vapor Pressure	< 0.01 mm Hg @ 68°F (20°C)		
Vapor Density (air = 1)	> 1		
Specific Gravity:	~1.050 @ 77° F (25° C)		
Solubility in Water:	Soluble		
Volatile Organic Content:	Negligible		
Appearance:	Translucent, dark reddish-brown liquid		
pH:	3.75 – 4.75 @ 77°F (25° C)		
Boiling Point:	> 212° F (100° C)		
Flash Point:	> 212° F (100° C)		
Freezing Point:	< 32° F (0° C)		
Viscosity:	~ 38.7 - 47.1 cP @ 77° F (25° C)		
Evaporation Rate:	< 0.01 *N-butyl acetate = 1		
Weight:	8.7 – 8.9 lb./gallon (1.0 - 1.1 Kg/liter)		
Odor:	Mild		
Section 4 – Fire Fighting Measures			
Flammable Properties			
Flash Point:	> 212° F (100° C)		
Method Used:	Open Cup		
Flammable Limits:	Does Not Apply		
Hazardous Combustion:	None Known		
Extinguishing Media:	Water fog or fine spray, carbon dioxide, dry chemical or foam.		
Fire Fighting Instructions:	Wear self-contained breathing apparatus and protective clothing. Use water to cool containers. Turn off electrical service to eliminate source of ignition.		
Section 5 – Accidental Release Measures			
Large Spill:	Contain spill. Prevent runoff from entering drains, sewers or streams. Dispose in accordance with all applicable federal, state and local health and environmental regulations.		
Small Spill:	Contain spill. Follow same procedure as above for large spill.		

Section 6 – Hazards Identification & First Aid Measures			
HMIS HAZARD RATINGS			
Health–0,1,2	Fire–0	Reactivity–0	Personal Protection–See Section 8
Routes of Entry:	Product may enter the body via eye contact, skin contact and ingestion.		
Potential Health Effects:			
Eye:	Eye contact with product may cause irritation. Avoid eye contact with product.		
Skin:	Skin contact may cause irritation. Avoid skin contact with product.		
Ingestion:	Swallowing may cause irritation of mouth and throat. It may also cause nausea. Do not taste or swallow product.		
FIRST AID MEASURES			
Eye Contact:	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. SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.		
Skin Contact:	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.		
Ingestion:	Give 2 glasses of water. Do not induce vomiting. If spontaneous vomiting is inevitable, PREVENT ASPIRATION by keeping victim's head below the knees. GET IMMEDIATE MEDICAL ATTENTION.		
Inhalation:	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 7 – Stability and Reactivity			
Hazardous Polymerization:	Hazardous polymerization will not occur.		
Materials to Avoid:	Avoid contact with strong oxidizing and reducing agents.		
Conditions to Avoid:	See Section 9.		
Hazardous Decomposition Products:	Not Known. See Section 6.		
Section 8 – Exposure Controls, Personal Protection			
Personal Protection			
Gloves:	Always wear gloves when handling this product.		
Safety Glasses:	Always wear eye protection. Goggles or safety glasses with side shields are recommended.		
Section 9 – Handling and Storage			
Storage Temperature:	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 come in contact with bactericides or quaternary disinfectants, as they will degrade/inactivate enzymes.		
General Precautions:	Keep container closed when handling or storing.		
Section 10 – Other Information			
Disclaimer:	The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data or the results to be obtained from the use thereof. Diversified Waterscapes, Inc. assumes no responsibility for personal injury or property damage to the Vendee, Users or Third Parties caused by the material. Such Vendees or Users assume all risks associated with the use of this material.		