

SAFETY DATA SHEET



F-55 Bio-Zyme

Issue Date 30-Jan15

Version 1

Diversified Waterscapes, Inc. urges each customer or recipient of this SDS 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 SDS.

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 SDS 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.

1. Product & Company Identification

Product Identifier

Product Name F-55 Bio-Zyme

Chemical Family/Use Mixture

Chemical Name A concentrated non-bacterial blend readily biodegradable, enzymatic solution.

Details of the Supplier of the Safety Data Sheet

Manufacturer Address

Diversified Waterscapes, Inc.
27324 Camino Capistrano, Suite 213
Laguna Niguel, CA 92677-1118

Emergency Telephone Numbers

Company Phone Number 949-582-5414
Emergency Telephone Chemtrec 1-800-424-9300

2. Hazards Overview

Emergency Overview Moderately irritating to the eyes. Mild skin irritation.

Potential Health Effects

Ingestion May cause irritation to mouth and throat. May cause nausea.

Eye Contact May cause irritation unless immediately rinsed.

Skin Contact May cause irritation upon prolonged contact.

Inhalation Unknown.

3. Composition/Information on Ingredients

Name	CAS#	WT/V%	TLV(ACGIH)
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Formula F-55 Bio-Zyme is a proprietary composition "not considered hazardous" under the OSHA Hazard Communication Standard CFR Title 29 1910.1200.

4. First Aid Measures

First Aid Measures

Ingestion	Give large amounts 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.
Eye Contact	Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
Skin Contact	Flush skin with large amounts of water. Remove any contaminated clothing and wash before reuse. Seek medical attention if irritation occurs.
Inhalation	If symptoms are experienced, remove source of contamination and/or move victim to fresh air. If breathing is difficult, have trained personnel administer oxygen. If respiration stops, have trained personnel administer artificial respiration. Get medical attention immediately.

5. Fire-Fighting Measure

Flash Point	None
Extinguishing Media	Water fog or fine spray, carbon dioxide, dry chemical or foam.
Special Fire Fighting Protective Equipment	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. Accidental Release Measures

Personal Precautions	Isolate area. Keep unnecessary personnel away. Keep out of low areas. Ventilate closed spaces before entering.
Environmental Precautions	Prevent further leakage or spillage if safe to do so.
Methods for Containment	Prevent entry into waterways, sewers, basements, or confined areas.
Methods for Clean-Up	Wear appropriate protective equipment and clothing during clean-up. Large spill: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Dispose in accordance with all local, state, and federal regulations. Small spill: Follow same procedure as above.

7. Handling and Storage

Handling	Avoid contact with skin and eyes. Wash hands thoroughly after handling.
Storage	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.

8. Exposure Controls/Personal Protection

General	Eye wash fountain is recommended.
Eyes	Wear chemical goggles.
Skin	Wear suitable protective clothing. Use impervious gloves.

9. Physical and Chemical Properties

Vapor Pressure	<.01 mm Hg @ 68° F (20° C)
Vapor Density (air = 1)	Same as water
Specific Gravity	~1.04 – 1.05 @ 77° F (25° C)
Solubility in Water	Complete
Volatile Organic Content	Negligible
Appearance	Translucent dark amber liquid
pH	3.8-4.2 @ 77° F (25° C)
Boiling Point	>212° F (100° C)
Flash Point	None
Freezing Point	< 32° F (0° C)
Evaporation Rate	<0.01 *N-butyl acetate = 1
Weight	8.7—8.8 lbs. / gallon
Odor	Mild

10. Stability and Reactivity

Chemical Stability	Stable at normal conditions.
Incompatible Materials	Strong oxidizing agents, alkalis
Hazardous Decomposition Products	None known.
Conditions to Avoid	See section 7.
Hazardous Polymerization	Will not occur.

11. Toxicology Information**Toxicology Data**

48 hr. LC50	<i>D.pulex</i> (daphnia)	12.00 mg/l
96 hr. LC50	<i>P. promelas</i> (fathead minnow)	20.00 mg/l

12. Ecological Information

Ecotoxicity	Readily biodegradable
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13. Disposal Considerations

Disposal Instructions	Dispose in accordance with all applicable regulations. All wastes must be handled in accordance with local, state and federal regulations. Regulations vary.
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14. Transportation Information

General Information	Non-hazardous
US DOT	
Proper Shipping Description	NMFC 48580.3 Cleaning/Scouring/Wash Comp Class 55

15. Regulatory Information

TSCA Inventory Status	This product and/or all of its components are either included on or exempt from the TSCA Inventory of Chemical Substances.
DSL (Canada)	This product and/or all of its components are either included on or exempt from the Domestic Substances List.

16. Other Information

HMIS Ratings	Health: 1 Flammability: 0 Physical hazard: 0
NFPA Ratings	Health: 1 Flammability: 0 Reactivity: 0
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.

End of Safety Data Sheet