



# SAFETY DATA SHEET

**F-55 Bio-Zyme**

**Issue Date** 12/14/22

**Version** 3

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** INFOTRAC:

1-353-323-3500 (International)

1-800-535-5053 (North America)

## 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

<u>Name</u>	<u>CAS#</u>	<u>WT/V%</u>	<u>TLV(ACGIH)</u>
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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

<b>Ingestion</b>	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.
<b>Eye Contact</b>	Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
<b>Skin Contact</b>	Flush skin with large amounts of water. Remove any contaminated clothing and wash before reuse. Seek medical attention if irritation occurs.
<b>Inhalation</b>	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

<b>Flash Point</b>	None
<b>Extinguishing Media</b>	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

<b>Personal Precautions</b>	Isolate area. Keep unnecessary personnel away. Keep out of low areas. Ventilate closed spaces before entering.
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for Containment</b>	Prevent entry into waterways, sewers, basements, or confined areas.
<b>Methods for Clean-Up</b>	Wear appropriate protective equipment and clothing during clean-up. <b>Large spill:</b> 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. <b>Small spill:</b> Follow same procedure as above.

#### 7. Handling and Storage

<b>Handling</b>	Avoid contact with skin and eyes. Wash hands thoroughly after handling.
<b>Storage</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.

#### 8. Exposure Controls/Personal Protection

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

#### 9. Physical and Chemical Properties

<b>Vapor Pressure</b>	<.01 mm Hg @ 68° F (20° C)
<b>Vapor Density (air = 1)</b>	Same as water
<b>Specific Gravity</b>	~1.04 – 1.05 @ 77° F (25° C)
<b>Solubility in Water</b>	Complete

<b>Volatile Organic Content</b>	Negligible
<b>Appearance</b>	Translucent dark amber liquid
<b>pH</b>	3.8-4.2 @ 77° F (25° C)
<b>Boiling Point</b>	>212° F (100° C)
<b>Flash Point</b>	None
<b>Freezing Point</b>	< 32° F (0° C)
<b>Evaporation Rate</b>	<0.01 *N-butyl acetate = 1
<b>Weight</b>	8.7—8.8 lbs. / gallon
<b>Odor</b>	Mild

### 10. Stability and Reactivity

<b>Chemical Stability</b>	Stable at normal conditions.
<b>Incompatible Materials</b>	Strong oxidizing agents, alkalis
<b>Hazardous Decomposition Products</b>	None known.
<b>Conditions to Avoid</b>	See section 7.
<b>Hazardous Polymerization</b>	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

<b>Ecotoxicity</b>	Readily biodegradable
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### 13. Disposal Considerations

<b>Disposal Instructions</b>	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

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

### 15. Regulatory Information

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

### 16. Other Information

<b>HMIS Ratings</b>	Health: 1 Flammability: 0 Physical hazard: 0
<b>NFPA Ratings</b>	Health: 1 Flammability: 0 Reactivity: 0
<b>Disclaimer</b>	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