

Section 1 – Product & Company Identification

Product Name: Multi-Zyme
 Product ID Number: 436
 Product Use: Bacterial Digestant/Deodorizer
 Manufacturer: Arrow Chemical Products, Inc.
 2067 Ste. Anne
 Detroit, MI 48216
 Telephone: 313-237-0277
 Numbers: 24 hr. Emergency Assistance: Infotrac 1-800-535-5053



Environmentally GREEN Product.

Section 2 – Composition/Information on Ingredients

<u>INGREDIENT</u>	<u>CAS #</u>	<u>% by Weight</u>	<u>Exposure Limits</u>	<u>LC₅₀/LD₅₀</u>
This formula contains no hazardous ingredients.	149458-07-1	<30%	Not established	Not established

Formula is Proprietary.

Section 3 – Hazards Identification

Emergency Overview:
 Potential Health Effects:
 Skin: Overexposure may cause skin irritation.
 Eyes: Direct contact will cause irritation.
 Inhalation: Do not breathe mist
 Ingestion: May be harmful if swallowed.

Section 4 – First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.
 Skin: Flush with water.
 Inhalation: If symptoms are experienced, remove source of contamination or move victim to fresh air.
 Ingestion: Wash out mouth with water. Call a physician. Do not induce vomiting unless told to do so by physician.

Section 5 – Fire Fighting Measures

Extinguishing Media: water.
 Fire Fighting Equipment & Instructions: Firefighters should wear full protective clothing including self-contained breathing apparatus.

Section 6 – Accidental Release Measures

Spill and Leak Procedures
 Emergency Action: Isolate spill or leak area immediately. Keep unauthorized personnel away.
 Spill Cleanup: Vacuum or sweep up avoiding generation of mist. Place in suitable containers. Wash spill site with water. If bacterial contamination is an issue; use chlorine to kill the bacillus spores.

Section 7 – Handling & Storage

Handling Procedures: Avoid contact with eyes. Use good personal hygiene practices. Wash thoroughly after using with soap and water.
 Storage Procedures: Keep container tightly close. Temperature for Storage: 40° F. - 100° F. Do not allow product to reach below or above recommended temperature storage range.

Section 8 – Exposure Controls/Personal Protection

Engineering Controls: Use with adequate ventilation.
 Personal Protective Equipment:
 Eyes/Face: Safety glasses recommended.
 Skin: Wash thoroughly after handling. Impervious gloves recommended.
 Respiratory: Normally not needed. Do not breathe mist.

Section 9 – Physical & Chemical Properties

Flash Point: Not applicable.
 Boiling Point: 212° F.
 Specific Gravity: 1.01
 Percent Volatiles: N/A
 RVOC Content: 0%
 Viscosity: N/A
 Evaporation Rate: Not determined.
 pH: 6.5 – 7.5
 Freeze Point: 32° F.
 Shelf Life: 1 year.
 Appearance and Odor: Milky white liquid, pleasant fragrance.

Section 10: Stability & Reactivity

Chemical Stability: Stable under normal storage conditions.
 Incompatibilities: Acids and Alkalies may inactivate the bacterial cultures.
 Hazardous Decomposition Products: May yield sulfur dioxide and oxides of sulfur.
 Hazardous Polymerization: Will not occur.

Section 11 – Toxicological Information

Low acute oral toxicity although ingestion will cause irritation of the gastrointestinal tract and may result in nausea and diarrhea. May cause irritation from allergic reaction, especially to people that have a history of allergic reaction.
 Carcinogenicity: No Carcinogenicity data available for this product.

CHEMICAL INGREDIENTS LISTED AS POTENTIAL OR KNOWN CARCINOGENS

<u>INGREDIENT</u>	<u>OSHA</u>	<u>NTP</u>	<u>IARC</u>
No ingredients listed in this section.			

Section 12 – Ecological Information

Ecotoxicity: Readily biodegradable.

Environmental Fate: The bacterial cultures are naturally occurring soil type organisms. The other components are unlikely to bio accumulate and are biodegradable.

Aquatic Toxicity: None Known.

Section 13 – Disposal Considerations

Dispose in accordance with all applicable regulations.

Section 14 – Transportation Information

DOT Hazard Class: Not regulated.

DOT Proper Shipping Name: Not regulated.

Proper Shipping Name: Water treatment compounds, bacterial culture.

Section 15 – Regulatory Information

TSCA Status

All ingredients are listed on the TSCA Chemical Inventory.

Other Chemical Inventories

All components of this product are listed on the following inventories: Canada (DSL), Europe (EINECS/ELINCS), Australia (AICS), Korea (ECL), Japan (ENCS).

CERCLA/SARA

SARA Title III, Sections 311/312 – This act requires reporting under the Community Right-to-Know provisions due to the inclusion of the following components of this material in one or more of the five hazard categories listed in the 40 CFR 370: Classification of this product: Immediate, Fire

SARA Title 313 – This act requires submission of annual reports of releases of the following components of this material if the threshold reporting quantities, as listed in 40 CFR 372, are met or exceeded:

CHEMICAL NAME	CAS NO.	MAXIMUM CONCENTRATION	COMMENT
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No ingredients listed in this section.

Reportable Quantities/Threshold Planning Quantities: CERCLA requires notification of the National Response Center (Telephone 1-800-424-8802) in the event of a release of quantities of the following hazardous materials contained in this product, if the release is equal to or greater than the Reportable Quantities (RQs). SARA 302/304 requires emergency planning, including agency notification, for possible release of the following components of this material, based upon the Threshold Planning Quantities (TPQs) and/or release of Reportable Quantities.

CHEMICAL NAME	REPORTABLE QUANTITY (RQ)	THRESHOLD PLANNING QUANTITY (TPQ)
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No ingredients listed in this section.

State & Provincial Right to Know & Selected Regulatory Lists

The following ingredients appear on various state right to know lists and/or California's Proposition 65 List

CHEMICAL NAME	STATE LIST
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None	AZ, CA, CAP65C, CT, IL, MA, MN, NJ, PA, RI
AZ – Arizona Ambient Air Quality Guidelines	AZ, CA, CT, ID, MA, MN, NJ, PA, RI
CT – Connecticut Hazardous Air Pollutants	IL – Illinois Toxic Air Contaminant – Carcinogenic
CA – California Director's List of Hazardous Substances	MA – Massachusetts Right to Know List
CA65C – California Prop 65 Carcinogen	MN – Minnesota Hazardous Substance List
CA65R – California Prop 65 Reproductive Toxin	NJ – New Jersey Right to Know List
FL – Florida Substances List	PA – Pennsylvania Right to Know List
ID – Idaho Non-carcinogen Toxic Air Pollutants	RI – Rhode Island Hazardous Substance List

Section 16 – Other Information

This material must not be used for direct contact with food.

This product has been shown to be free of salmonella and shigella using the procedures outlined by AOAC and USDA.

Hazard Ratings

Hazard Ratings

Hazard Rating Scale:

4 = Extreme

3 = High

2 = Moderate

1 = Slight

0 = Insignificant

HEALTH	0
FLAMMABILITY	0
REACTIVITY	0

Information Contact: Arrow Chemical Products, Inc., 2067 Ste. Anne, Detroit, MI 48216

The seller makes no warranty expressed or implied concerning the accuracy of any results to be obtained from the use of any information and no warranty expressed or implied concerning the use of the products. The buyer assumes all risks of the use and/or handling.