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SECTION 1 – PRODUCT AND IDENTIFICATION

Trade Name: Microtack™ Bio-Zyme L

Name and/or Family or Description: Bacteria/Enzyme Complex Mixture (No IUC Name for the mixture is known to exist)

HEALTH (0 = Maximum Safety) 1

Always Follow Label Directions and Cautions
 4 Extreme 3 High 2 Moderate 1 Slight 0 Minimal

See Hazards Identification Section of this MSDS for more detailed information

Reactivity (0 = Maximum Safety) 0

4 May detonate-vacate area if materials are exposed to fire.
 3 Strong shock of heat may detonate-use monitors from behind explosion resistant barriers.
 2 Violent chemical change possible-use hose stream from distance.
 1 Unstable if heated-use precaution.
 0 Normally stable.

FLAMMABILITY (0 = Maximum Safety) 0

Susceptibility of Material to Burning
 4 Extremely Flammable
 3 Ignites at normal temperature
 2 Ignites when moderately heated
 1 Must be preheated to burn
 0 Will not burn

PERSONAL PROTECTION



SECTION 2 – COMPONENTS / INFORMATION ON INGREDIENTS

This compound is not considered a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration.

Identity ingredients	CAS No.	WT% Over 3%
Bacteria Complex with amylase and protease	(68920-42-3)	Yes
Water	(7732-18-5)	Yes
Hydrolyzed protein	(9015-54-7)	No

@ Among 3 most predominant compounds

SECTION 3 – HAZARDS IDENTIFICATION

Emergency overview: Avoid contact with eyes. Mild skin irritation.

Potential health effects:

Eyes: Contact with eyes can cause irritation.
Skin: Prolonged or repeated contact may cause irritation.
Inhalation: Unknown
Ingestion: Large quantities (more than a few ounces) may cause upset stomach, diarrhea, nausea, and vomiting.

SECTION 4 – FIRST AID MEASURES

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.

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.

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SECTION 5 - FIRE FIGHTING MEASURES

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

SECTION 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.

SECTION 7 – HANDLING AND STORAGE

Handling:	Avoid contact with skin and eyes. Wash hands thoroughly after handling.
Storage:	Store this product below 104°F (40°C), preferably at 41°F (5°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. Do not allow this product to freeze.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Eyes:	Safety glasses recommended
Skin:	Chemical resistant gloves recommended for prolonged exposure.
Respiration:	Normally not required.
Engineering Controls:	Mechanical ventilation recommended when handling in enclosed / tight spaces.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	>215 °F/100 °C
Specific Gravity:	1.098 (H ₂ O = 1)
Melting Point:	NA
Vapor Density:	NA
Evaporation Rate:	NA
Solubility in Water:	Soluble
VOC:	Negligible
pH:	6.0-7.0 (1% Solution)
Appearance and Odor:	Medium brown liquid with fermented odor

SECTION 10 – STABILITY AND REACTIVITY

Stability:	Stable
Polymerization:	Will not occur
Conditions To Avoid:	Excessive heat and contamination of any kind

SECTION 11 – TOXICOLOGICAL INFORMATION

Toxicity:	No acute toxicity
Pathogenic Risk:	Component bacteria are non-pathogenic and generally regarded as safe.
Carcinogenicity:	Not applicable

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SECTION 12 - ECOLOGICAL INFORMATION

The preparation is biodegradable, which classifies the preparation as "non-dangerous" to the environment.

SECTION 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 are varies.
Disposal of Waste Method:	Small spills flush with plenty of water. Large spills should be collected for disposal.
Contaminated Packaging:	Dispose in according with Federal, State and /or current local authority regulations.

SECTION 14 – TRANSPORT INFORMATION

General information:	Non-hazardous.
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SECTION 15 – REGULATORY INFORMATION

TSCA Inventory Status:	This product and/or of its components are either included on or exempt from the TSCA inventory of Chemical Substances.
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SECTION 16 – OTHER INFORMATION

ALTHOUGH THE INFORMATION AND RECOMMENDATIONS SET FORTH IN THIS SHEET ARE BELIEVED TO BE CORRECT AS OF THE DATE HEREOF, BAXEL COMPANY LIMITED MAKES NO REPRESENTATION AS TO THE COMPLETENESS OR ACCURACY OF SUCH INFORMATION AND RECOMMENDATIONS. BAXEL COMPANY LIMITED SHALL IN NO EVENT BE RESPONSIBLE FOR ANY DAMAGES OF WHATSOEVER NATURE DIRECTLY OR INDIRECTLY RESULTING FROM THE PUBLICATION OR USE OF OR RELIANCE UPON SUCH INFORMATION AND RECOMMENDATIONS. YOU ARE ENCOURAGED TO ADVISE ANYONE WORKING WITH OR EXPOSED TO SUCH PRODUCTS OF THE INFORMATION CONTAINED HEREIN.

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Read and follow all label directions and precautions before using this product. These products are intended for industrial and institutional use only.

KEEP OUT OF REACH OF CHILDREN.