

MATERIAL SAFETY DATA SHEET

Baxel Company Limited

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SECTION 1 – PRODUCT AND IDENTIFICATION

Trade Name: Engest™ L

Name and/or Family or Description: Bacteria Mixture Concentrated
(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 (H2O = 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:	Dark 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

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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.