SAFETY DATA SHEET

BACTERIAL ENZYME TREATMENT (LIQUID DIGESTANT)

Product Code: BSC-ENZ
Effective Date: Nov 11, 2026
Version: 2.0

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	**Bacterial Enzyme Treatment**	**Product Code**	BSC-ENZ
Use / Mixture	Bacterial digestant for wastewater treatment & organic waste degradation	**Formulation**	Liquid Enzymatic Consortium
Supplier Details	**Blendmagic Products, LLC** | PO Box 220, East Islip, NY 11730 | Tel: (631) 572-3381 / (888) 605-4332		
Emergency Numbers	**24/7 CHEMTREC (USA):** (800) 424-9300 | **International:** +1 (703) 527-3887		

2. HAZARDS IDENTIFICATION

Signal Word	**DANGER**
GHS Classification	• Serious Eye Damage / Eye Irritation – Category 2A (H319) • Respiratory Sensitization – Category 1 (H334)
Hazard Statements	Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

GHS PICTOGRAM



Precautionary Statements:

Prevention & Handling:

- Avoid breathing mist, spray, or aerosols.
- Wash thoroughly after handling.
- Wear eye protection and safety glasses.
- In case of inadequate ventilation, wear respiratory protection.

Response & Storage:

- **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
- **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Component Name	CAS Number	Weight %	GHS-US Classification
Undeceth-5	34398-01-1	1.0% – 5.0%	Acute Tox. 4 (Oral, H302); Eye Dam. 1 (H318)
Subtilisin (Protease Enzyme)	9014-01-1	0.05% – 0.5%	Skin Irrit. 2 (H315); Eye Dam. 1 (H318); Resp. Sens. 1 (H334); STOT SE 3 (H335)

*Specific chemical concentrations withheld as a trade secret in accordance with 29 CFR 1910.1200(i).

4. FIRST AID MEASURES

- **Inhalation:** Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms or difficulty, immediately call a POISON CENTER or doctor/physician.
- **Skin Contact:** Wash skin with plenty of water. Obtain medical advice if irritation occurs.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
- **Ingestion:** Rinse mouth with water. Do NOT induce vomiting. Seek medical attention if feeling unwell.
- **Most Important Symptoms:** May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes serious eye irritation (redness, stinging). Prolonged skin contact may cause mild irritation.

5. FIRE-FIGHTING MEASURES

- **Extinguishing Media:** Non-combustible liquid. Select extinguishing media appropriate for surrounding fire conditions (water spray, CO_2, dry chemical, foam).
- **Specific Fire Hazards:** Material will not burn. Thermal decomposition under high heat produces Carbon Monoxide (CO) and Carbon Dioxide (CO_2).
- **Protective Actions:** Exercise caution when fighting chemical fires. Use water spray or fog to cool exposed containers. Wear self-contained breathing apparatus (SCBA) and full turnout gear.

6. ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Wear protective goggles, gloves, and protective clothing. Evacuate unnecessary personnel. Avoid breathing mists or spray vapors. Ensure adequate ventilation.
- **Environmental Precautions:** Avoid release of concentrated product to the environment. Prevent entry to sewers and public waters.
- **Clean-Up Methods:** Contain released liquid spill, pump into suitable recovery containers. Absorb residue with inert absorbent material and dispose of in accordance with local legislation.

7. HANDLING AND STORAGE

Safe Handling Precautions:
Keep container tightly closed. Avoid breathing mists, aerosols, or spray. Wash hands and exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

Storage Conditions:
Store in a cool, dry area in original packaging. Keep container closed when not in use. Comply with all applicable local storage regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component	OSHA PEL	ACGIH TLV (Ceiling)
Subtilisin (9014-01-1)	Not established	0.00006 mg/m³
Undeceth-5 (34398-01-1)	Not established	Not established

Engineering Controls: Ensure adequate ventilation of the work area to keep airborne mists below exposure limits. Emergency eye wash fountains should be nearby.

Personal Protective Equipment (PPE):
• **Eye/Face:** Protective safety glasses or chemical goggles.
• **Skin:** Rubber/nitrile protective gloves and protective clothing.
• **Respiratory:** Use NIOSH-approved respirator if mists/sprays are generated.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Hazy, orange-brown liquid
Odor	Bland odor
pH Value	7.0 – 8.0
Specific Gravity	1.01 g/mL @ 20°C
Boiling Point	Not determined
Flash Point	Non-flammable

Solubility in Water	Soluble in water
Vapor Pressure	Not determined
Vapor Density	Not determined
Decomposition Temp	Not determined
VOC Content	< 0.5%
Flammability Limits	Not applicable

10. STABILITY AND REACTIVITY

- **Reactivity:** Thermal breakdown emits Carbon Monoxide (CO) and Carbon Dioxide (CO_2).
- **Chemical Stability:** Stable under normal storage and handling conditions.
- **Possibility of Hazardous Reactions:** Hazardous reactions will not occur under normal use.
- **Conditions to Avoid:** Extreme temperatures and incompatible chemicals.
- **Incompatible Materials:** Strong oxidizing agents, strong acids, and alkalis.
- **Hazardous Decomposition Products:** None under normal storage conditions. Thermal breakdown emits carbon oxides.

11. TOXICOLOGICAL INFORMATION

Component Toxicity Endpoint Values:
• **Undeceth-5 Oral LD50 (Rat):** > 1,400 mg/kg.
• **Subtilisin Toxicity:** Respiratory sensitizer.

Health Hazards & Specific Effects:
• **Eye Damage/Irritation:** Category 2A — Causes serious eye irritation.
• **Respiratory Sensitization:** Category 1 — May cause asthma symptoms if inhaled.
• **Carcinogenicity:** Components not listed by IARC, NTP, or OSHA.

12. ECOLOGICAL INFORMATION

Ecotoxicity: Undeceth-5: LC50 Fish (96h): < 10 mg/L; EC50 Daphnia (48h): < 10 mg/L; ErC50 Algae: < 10 mg/L.
Persistence & Degradability: Readily biodegradable surfactants and organic enzymes. Low bioaccumulation potential.

13. DISPOSAL CONSIDERATIONS

Dispose of contents and empty container in a safe manner in compliance with local, regional, national, and international regulations.

14. TRANSPORT INFORMATION

US DOT / TDG	Not Regulated for transport
IMDG / IATA	Not Regulated for transport
UN Number / Class	None / None

15. REGULATORY INFORMATION

US Federal Regulations: All components listed on the US TSCA Inventory. SARA Section 311/312 Hazard: Immediate (acute) health hazard. SARA Section 313: No reportable toxic chemicals.
State Regulations: California Proposition 65: Does not contain substances known to cause cancer or reproductive harm.

16. OTHER INFORMATION

NFPA 704 Rating: Health: 2 | Flammability: 0 | Instability: 0
HMIS Rating: Health: 2 | Flammability: 0 | Physical Hazard: 0

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Prepared By: Blendmagic Products, LLC Technical Dept.