SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME:	BioST Nematicide
REGISTRATION NO:	84059-14-42750
DISTRIBUTER:	Albaugh, LLC
ADDRESS:	1525 ne 36 TH Street Ankeny, IA 50021
	7 mikeny; 177 50021
EMERGENCY PHONE:	INFOTRAC Chemical Response System US and Canada 1-800-535-5053 (24 hours) International 1-352-323-3500 (24 hours)
EMERGENCY PHONE: OTHER CALLS:	INFOTRAC Chemical Response System US and Canada 1-800-535-5053 (24 hours)

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: May be minimally irritating to skin. If skin irritation occurs, get medical advice.

HAZARD SYMBOLS:

Pictogram None

Signal Word None

HAZARD STATEMENT: None

PRECAUTIONARY STATEMENTS: None

POTENTIAL ROUTES OF ENTRY: Oral, eye, and inhalation.

CARCINOGENICITY:

OSHA: Not listed	ACGIH: Not listed	NTP: Not listed.	IARC: Not list
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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SYNONYM(S): MBI-206 EP

ACTIVE INGREDIENT:

Heat-killed Burkholderia sp. strain A396

CAS NO.: None

<u>% WT</u>: 94.46

EXPOSURE LIMITS: None Established

OTHER INGREDIENTS:

5.54 % inert,

non-reactive

REACTIVITY: 0

SECTION 4: FIRST AID MEASURES

EYES: Hold eye open and rinse slowly and gently with water for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Do not use an eye ointment. Call poison control center or doctor for treatment advice.

SKIN: Remove contaminated clothing. Rinse skin immediately with plenty of water for at least 15-20 minutes. Call a poison control center or doctor for treatment advice.

INGESTION: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or physician. Do not give anything by mouth to an unconscious person.

INHALATION: Remove person to fresh air. If the person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for treatment.

SECTION 5: FIRE-FIGHTING MEASURES

FLAMMABLE LIMITS IN AIR, (% BY VOLUME)

UPPER:Not applicable.LOWER:Not applicable.

FLASH POINT: Not applicable.

AUTOIGNITION TEMPERATURE: Not applicable.

NFPA HAZARD CLASSIFICATION HEALTH: 0 FLAMMABILITY: 0

HMIS HAZARD CLASSIFICATION HEALTH: 0 FLAMMABILITY: 0 REACTIVITY: 0

EXTINGUISHING MEDIA: Use extinguishing media appropriate for the surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

HAZARDOUS DECOMPOSITION PRODUCTS: None

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES: Wear suitable clothing such as eye protection, long-sleeved shirt, pants and shoes with socks. If spilled, contain - prevent run off into drains and waterways. Absorb liquid with an inert absorbent material. Seal absorbent material in a closed labeled container and dispose of in accordance with local ordinances.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Store in the closed, original container in a well-ventilated area out of direct sunlight. Keep containers closed when not in use. Empty container completely and dispose of in accordance with all applicable federal, state and local environmental regulations.

OTHER PRECAUTIONS: No special precautions.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Spill controls should be provided for working with large quantities.

VENTILATION: No TLV assigned. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors and aerosols below the exposure levels. Ensure that eyewash stations and safety showers are proximal to the work-station location.

RESPIRATORY PROTECTION: Use a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95.

EYE PROTECTION: Safety goggles or glasses with side shields advisable when handling liquid.

SKIN PROTECTION: Wear gloves made of Latex or other impervious material.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Clothing to prevent prolonged skin contact as needed such as long-sleeved shirt, long pants and shoes with socks.

WORK HYGIENIC PRACTICES: Wash any contamination from skin or eyes immediately. Wash hands and exposed skin before eating, drinking, smoking, after work, or using the toilet.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Liquid
COLOR:	Light brown
ODOR:	Straw-like
pH:	6 to 8
DENSITY:	1 g/mL
SOLUBILITY IN WATER:	Miscible in water
BOILING POINT/RANGE:	Not determined
FREEZING/MELTING POINT:	Not determined
FLASH POINT:	Not determined
EVAPORATION RATE:	Not determined
FLAMMABILITY (SOLID. GAS):	Not determined
UPPER FLAMMABILITY LIMITS:	Not determined
LOWER FLAMABILITY LIMITS:	Not determined
VAPOR PRESSURE:	Not determined
VAPOR DENSITY:	Not determined
RELATIVE DENSITY:	Not determined
SOLUBILITY IN OTHER SOLVENTS:	Not determined
PARTITION COEFFICIENT:	Not determined

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AUTOIGNITION TEMPERATURE: DECOMPOSITION TEMPERATURE: KINEMATIC VISCOSITY: DYNAMIC VISCOSITY: **EXPLOSIVE PROPERTIES: OXIDIZING PROPERTIES:**

Not determined Not determined Not determined Not determined Not determined Not determined

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable. INCOMPATIBILITY (MATERIAL TO AVOID): None known HAZARDOUS DECOMPOSITION OR BY-PRODUCTS: None known HAZARDOUS POLYMERIZATION: Not known to occur CONDITIONS TO AVOID (POLYMERIZATION): None

SECTION 11: TOXICOLOGICAL INFORMATION

WARNING: This product may be harmful if swallowed. This product may be harmful in contact with skin. This product may be harmful if inhaled.

ACUTE ORAL TOXICITY LD _{50:}	>5000 mg/kg (rat). Not classified
ACUTE DERMAL TOXICITY LD ₅₀ :	>5050 mg/kg (rat). Not classified
ACUTE INHALATION LC50:	>5.22 mg/L (rat). Not classified
EYE IRRITATION:	Non-irritating (rabbit). Not classified
SKIN IRRITATION:	Minimally irritating (rabbit). Not classified
SKIN SENSITIZATION:	Non-sensitizing (guinea pigs). Not classified

Non-sensitizing (guinea pigs). Not classified

SECTION 12: ECOLOGICAL INFORMATION

This product is non-toxic or practically nontoxic (Category 4) to mammalian wildlife, beneficial insects and mites,.

Avian Acute Oral Toxicity:	Bobwhite quail. LD ₅₀ >2000 mg/kg-bw. Non-toxic.
Toxicity to freshwater aquatic life:	Rainbow trout (96-hour acute toxicity) $EC_{50} > 1000 \text{ mg/L}$ AI. Minimally toxic Daphnia magna (48-hour acute toxicity) $EC_{50} = 28.8 \text{ mg/L}$. Unicellular green algae (72-hour growth inhibition) NOEC 1000 mg/L Category Acute 3
Bees and beneficial insects:	Honey bee (48-hour contact and oral acute toxicity) $LD_{50} > 100 \ \mu g \ a.s./bee.$ Non-toxic.

To minimize potential exposure to bees and other pollinating insects, do not apply while bees are foraging. Do not allow product to drift to blooming crops or weeds if bees are foraging. Minimize spray drift away from the target area to reduce effects to other non-target insects.

BioST Nematicide has been evaluated for toxicity to non-target insects in a variety of bioassays and on a variety of crops under various normal growing conditions. However, testing all beneficial insects, in all situations, mixtures

and combinations, is not feasible. Prior to treating entire crop where the release of beneficial insects serve as part of an Integrated Pest Management (IPM) program, consult with an extension specialist, a pest control advisor (PCA) or with the product manufacturer.

For terrestrial uses only: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

Sensitive areas: The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g. when wind is blowing away from the sensitive areas). Do not allow spray to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, non-target crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals. Do not allow product to drift to blooming crops or weeds if bees are foraging. Minimize spray drift away from the target area to reduce effects to other non-target insects

Bioconcentration potential: This material is not expected to bioconcentrate in organisms.

SECTION 13: DISPOSAL CONSIDERATIONS

Do not reuse containers. Dispose of in accordance with all applicable federal, state, and local environmental regulations.

SECTION 14: TRANSPORTATION INFORMATION

U.S. DOT: Not regulated

IATA DGR: Not regulated

IMDG: Not regulated

Freight Classification: Insecticide. See NMFTA code.

SECTION 15: REGULATORY INFORMATION

INTERNATIONAL REGULATIONS TSCA:

Exempt

U.S. FEDERAL REGULATIONS CERCLA:

Not applicable.

SARA TITLE III HAZARD CLASSIFICATION SECTIONS 311 AND 312:

Immediate (acute) Health:	None
Delayed (chronic) Health:	None
Fire:	None
Sudden Release of Pressure:	None
Reactivity:	None
SARA 313:	Not determined

SAFETY DATA SHEET

U.S. STATE REGULATIONS:	None	
US STATE RIGHT-TO-KNOW REGULAT	FIONS:	
New Jersey Right To Know Components		
1-hexanol	CAS No.	111-27-3
Propylene glycol	CAS No.	57-55-6
Pennsylvania Right To Know Components		
1-hexanol	CAS No.	111-27-3
Propylene glycol	CAS No.	57-55-6
California Proposition 65	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.	

SECTION 16: OTHER INFORMATION

NFPA HAZARD CLASSIFIC HEALTH: 0	ATION FLAMMABILITY: 0	REACTIVITY: 0
HMIS HAZARD CLASSIFIC HEALTH: 0	ATION FLAMMABILITY: 0	REACTIVITY: 0
SPECIAL HAZARDS: Not Determined		

Date Issued:	October, 2016
Revision:	1
Revision Note:	Initial release

DISCLAIMER: IN NO EVENT SHALL ALBAUGH, LLC BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES. THE DATA PROVIDED IS FOR GENERAL INFORMATION ONLY AND IS NOT INTENDED AS A COMPREHENSIVE GUIDE CONCERNING HAZARDS THAT MAY BE ASSOCIATED WITH THIS PRODUCT. USER ASSUMES ALL RESPONSIBILITY FOR FOLLOWING PROPER SAFTEY PROTOCOL AND CONSULTING TRAINED PERSONNEL FOR CONTROL AND CONTAINMENT.