

**SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: **BioST Insecticide**

REGISTRATION NO: 84059-14-42750

DISTRIBUTER: Albaugh, LLC

ADDRESS: 1525 ne 36<sup>TH</sup> Street  
Ankeny, IA 50021

EMERGENCY PHONE: **INFOTRAC Chemical Response System  
US and Canada 1-800-535-5053 (24 hours)  
International 1-352-323-3500 (24 hours)**

OTHER CALLS: 1-800-247-8013

PRODUCT USE: Bio-based insecticide

**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

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

SYNONYM(S): MBI-206 EP

ACTIVE INGREDIENT:

Heat-killed *Burkholderia sp.* strain A396

CAS NO.: None

% WT:  
94.46

EXPOSURE LIMITS: None Established

OTHER INGREDIENTS:

5.54 % inert, non-reactive

**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

REACTIVITY: 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
AUTOIGNITION TEMPERATURE:	Not determined
DECOMPOSITION TEMPERATURE:	Not determined
KINEMATIC VISCOSITY:	Not determined
DYNAMIC VISCOSITY:	Not determined
EXPLOSIVE PROPERTIES:	Not determined
OXIDIZING PROPERTIES:	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 <sub>50</sub> :	>5000 mg/kg (rat). Not classified
ACUTE DERMAL TOXICITY LD <sub>50</sub> :	>5050 mg/kg (rat). Not classified
ACUTE INHALATION LC <sub>50</sub> :	>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

#### 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 <sub>50</sub> >2000 mg/kg-bw. Non-toxic.
Toxicity to freshwater aquatic life:	Rainbow trout (96-hour acute toxicity) EC <sub>50</sub> > 1000 mg/L AI. Minimally toxic <i>Daphnia magna</i> (48-hour acute toxicity) EC <sub>50</sub> = 28.8 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 <sub>50</sub> > 100 µg 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 Insecticide 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  
 U.S. STATE REGULATIONS: None

US STATE RIGHT-TO-KNOW REGULATIONS:

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.

<b>SECTION 16: OTHER INFORMATION</b>
--------------------------------------

NFPA HAZARD CLASSIFICATION

HEALTH: 0                      FLAMMABILITY: 0                      REACTIVITY: 0

HMIS HAZARD CLASSIFICATION

HEALTH: 0                      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 SAFETY PROTOCOL AND CONSULTING TRAINED PERSONNEL FOR CONTROL AND CONTAINMENT.