

SECTION 1: PRODUCT and COMPANY IDENTIFICATION

Product Name: **FBP23™ ES** Date Prepared: February 20, 2014
 EPA Reg. No. 70787-6-39039 Date Revised: April 25, 2016

Distributed by: Y-TEX Corporation Manufactured by: JABB of the Carolinas, Inc.
 1825 Big Horn Ave. 456 East Main Street
 Cody, WY 82414 Pine Level, NC 27568-0310

For Health Safety Emergency Only, Call CHEM-TEL, Inc.: 1-800-255-3924, 813-248-0585 International
 Other Information Calls: 800-443-6401, 307-587-5515 (Y-TEX)

General Use: Biological insecticide for controlling Darkling beetles (lesser mealworm) in livestock and poultry production facilities.

SECTION 2: HAZARDS IDENTIFICATION**GHS CLASSIFICATION:**

<u>Health</u>	<u>Environmental</u>	<u>Physical</u>
Acute Toxicity: No Skin Irritation: No Skin Sensitization: No Eye: No	Acute Toxicity: Do not apply directly to water. Potentially pathogenic to honey bees. Chronic Toxicity: Category 4	None Known

GHS LABEL:**SIGNAL WORD:****WARNING****HAZARD STATEMENTS:**

Symbols: Exclamation – irritant, Environmentally hazardous substance

<u>Hazard Statements</u>	<u>Precautionary Statements</u>
H333 May be harmful if inhaled H413 May cause long lasting harmful effects to aquatic life	P101 If medical advice is needed, have product container or label at hand P102 Keep out of reach of children P103 Read label before use P264 Wash thoroughly with soap and water after handling P270 Do not eat, drink or smoke when using this product P273 Avoid release to the environment P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P312 Call a poison center or doctor if you feel unwell. P501 Dispose of contents at any approved waste disposal facility. See section 13 for further disposal instructions.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Active Ingredient (non-hazardous):	Concentration (w/w) %	CAS Number
<i>Beauveria bassiana</i> Strain HF23 (1.1 x 10 ¹⁰ cfu/ml)	0.46%	Mixture

SECTION 4: FIRST AID

Eye Contact: Eye contact may cause mild irritation. Avoid eye contact. If contacted, hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. If irritation persists, seek medical attention.

Skin Contact: Wash skin immediately and thoroughly with soap and water for 15-20 minutes after contact. Take off contaminated clothing.

Inhalation: No apparent hazard with normal use. Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: 340° F minimum Autoignition Temperature: Not applicable
 LEL: Not applicable UEL: Not applicable
 Flammability Classification: Not applicable.

Extinguishing Media: Water, CO₂, dry chemical, foam
 Hazardous Combustion Products: Carbon dioxide, carbon monoxide
 Unusual Fire or Explosion Hazards: None
 Fire-Fighting Instructions/Equipment: Wear NIOSH/MSHA respiratory protection for vapors and particulates.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Use recommended personal protective equipment (see Section 8).

Remove persons not wearing protective clothing from spill area. Contain and ventilate spill area. Avoid contamination of streams and sewers. Absorb onto clay or other absorbent material.

SECTION 7: HANDLING AND STORAGE

Handling Precautions: Applicators and other handlers must wear:

- Long-sleeved shirt and long pants;
- Waterproof gloves;
- Shoes and socks.
- Protective eyewear such as goggles, face shield, or shielded safety glasses
- Mixers/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.
- Wash hands before eating, drinking, chewing gum, using tobacco or using toilet. Remove clothing immediately if product gets inside, then clean thoroughly and put on clean clothing.

Storage Requirements: Store in a cool, dry place in original container and out of direct sunlight. Do not store at temperatures exceeding 80°F (27°C).

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:	Component	U.S. OSHA PEL	ACGIH TLV
Eye/Face Protection:	Goggles, safety glasses or other equivalent protective gear.		
Skin Protection:	Applicators and other handlers must wear: long-sleeved shirt and long pants; chemical-resistant gloves made of any waterproof material; and shoes and socks.		
Respiratory Protection:	Mixers/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95 or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization		
Engineering Controls:	Do not use a fungicide prior to application of this product. Do not apply this product through any type of irrigation system.		
Administrative Controls:	Use this product only as specified on the label.		
Other Precautions:	Do not contaminate water by cleaning of equipment or disposal of equipment wash-waters. Do not discharge into lakes, streams, ponds, or public waterways. Wear approved dust/mist mask while spraying.		
Other Information:	See Section 7		

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Physical State:	Dark amber liquid	Odor:	Citrus
Odor Threshold (ppm):	Not applicable	pH:	Not applicable
Melting Point:	Not applicable	Boiling Point:	Unknown
Flash Point:	340° F minimum		
Evaporation Rate (Butyl Acetate = 1):	<1		
Flammability (solid, gas):	Solid, nonflammable; Air, not available		
LEL:	Not applicable	UEL:	Not applicable
Vapor Pressure at 20°C:	Not available	Vapor Density (Air = 1):	>1
Specific Gravity (Water = 1)	.96	Solubility in Water:	Not available
Coefficient of Water/Oil solubility:	Not applicable		
Autoignition temperature:	Not applicable	Decomposition temperature:	Not applicable
% Volatiles by volume:	<10%		

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability:	Stable	Hazardous Polymerization:	Will not occur
Conditions to Avoid:	Heat, strong acids and strong bases	Chemicals to Avoid:	Strong acids and strong bases
Hazardous Decomposition Products:	Carbon monoxide and/or carbon dioxide.		

SECTION 11: TOXICOLOGICAL INFORMATIONAcute Effects

Inhalation:	Non-hazardous. Avoid breathing vapors. Move person to fresh air.		
Skin:	May cause skin irritation. Avoid contact with skin & clothing. Wash thoroughly with soap and water. Get medical attention if irritation occurs and persists.		
Eyes:	May cause moderate eye irritation. Avoid contact. Flush thoroughly with water. If irritation occurs and persists, contact physician.		

Chronic Effects

Eyes:	Not determined	Skin:	Not determined
Ingestion:	Not determined	Inhalation:	Not determined
Carcinogenicity:	Not applicable		
Target Organ Effects:	Not applicable		
Medical Conditions Aggravated by Long-term Exposure:	None presently known		

SECTION 12: ECOLOGICAL INFORMATION

Do not use a fungicide prior to application of this product.
Do not apply this product through any type of irrigation system.
This pesticide is potentially pathogenic to honey bees. Avoid applying to areas where honeybees are actively foraging or around hives.
Do not apply directly to water, to areas where surface water is present or to intertidal areas below mean water mark. Do not contaminate surface water by disposal of equipment wash waters.

SECTION 13: DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by storage or disposal. Store in a cool, dry place in original container and out of direct sunlight. Do not store at temperatures exceeding 80°F (27°C).

Pesticide Disposal: To avoid wastes, use all material in the container by application according to the label directions. If wastes cannot be avoided, offer remaining product to waste disposal facilities or pesticide disposal program (often programs run by state or local governments or by industry).
Container Disposal: Non-refillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty remaining contents into application or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or mix tank or store for later use or disposal. Drain for 10 seconds after flow begins to drip. Repeat this procedure 2 more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances.

SECTION 14: TRANSPORT INFORMATION

UN Number:	None	UN Proper Shipping Name:	Non-hazardous additive compound
Transport Hazard Class(es):	Non-hazardous additive compound	Packing group, if applicable:	NA
Marine Pollutant:	No		

SECTION 15: REGULATORY INFORMATION

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

May cause moderate eye irritation. May cause skin irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

SECTION 16: OTHER INFORMATION

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