

Material Safety Data Sheet: **Mammoth® Biocontrol – Preventative Insecticide (MB-PI)**

Version No. 1

Date of Preparation: December 2018 *ANSI-Z400.1-2004 Format*

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name: Mammoth® Biocontrol – Preventative Insecticide (MB-PI)

Effective Date: 1 December 2018

EPA Registration Number: 25(b) exempt

Manufacturer's Product Code Numbers: **Please refer to page 4*

Manufacturer information: Growcentia, Inc.
500 E Vine Dr.
Fort Collins, CO 80524-4326
970-818-3321 (ph)

GENERAL USE: *MB-PI* is a contact and vapor action insecticide and miticide. *MB-PI* should be used weekly to prevent the infestation of various insect and mite species.

Section 2: HAZARDS IDENTIFICATION

WARNING: May be fatal if swallowed and enters airways. May cause an allergic skin reaction.
Combustible liquid.

Eye Contact: Mild Eye Irritant. Wear eye protection when handling.

Ingestion: May be fatal if swallowed and enters airways. Stomach or intestinal upset may occur. Immediately call a poison center/doctor/physician if swallowed.

Skin Contact: Skin irritation may occur. Wear protective clothing and gloves to prevent contact with skin. Wash contaminated clothing before reuse.

Inhalation: No adverse effects expected under typical use conditions. Avoid breathing mist and spray. Adequate ventilation should be present when using *MB-PI* over a prolonged period of time. Open windows or ventilate via fan or other air-moving equipment if necessary.

Carcinogens: No ingredients are listed by OSHA, IARC, or NTP as known or suspected carcinogens.

Exposure limits: not available

Medical Conditions: No medical conditions are known to be aggravated by exposure to *MB-PI*.

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients: Thyme oil (5%), corn oil (90%), lecithin (5%)

CAS Number: Not available

Synonyms: Biological control agent

Section 4: FIRST-AID MEASURES

Eye Contact: Reddening may develop. Immediately rinse the eye with large quantities of cool water; continue 10-15 minutes or until the material has been removed; be sure to remove contact lenses, if present, and to lift upper and lower lids during rinsing. Get medical attention if irritation persists.

Ingestion: If swallowed, immediately call a poison center/doctor/physician. Rinse out mouth and drink water in small sips. Do NOT induce vomiting.

Skin Contact: Irritation may occur. If on skin, wash with water for at least 15 minutes. If skin irritation or rash occurs, get medical advice/attention.

Inhalation: Non-toxic. Exposure to concentrate may cause mild irritation of nasal passages or throat; remove to fresh air. Get medical attention if irritation persists.

Section 5: FIRE-FIGHTING MEASURES

MB-PI is stable, not flammable, and will not burn. No special procedures required.

Flash Point/Auto-Ignition: 87.2°C

Extinguishing Media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Flammability Limits: Not flammable.

Special Fire Fighting Equipment/Procedures: Dangerous gases are evolved in the event of a fire. Use appropriate extinguishing media for material that is supplying fuel. Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from firefighting to enter drains or water courses.

Section 6: ACCIDENTAL RELEASE MEASURES

Method for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Clean contaminated floors and objects thoroughly, observing environmental regulations.

Spills and leaks: Contain the spill to prevent discharges to surface streams or storm sewers.

Section 7: HANDLING AND STORAGE

Handling: Protect eyes to prevent contact. Avoid prolonged or repeated exposure to skin. Ensure adequate ventilation. Handle and open container in a manner as to prevent spillage.

Storage: Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container out of direct sunlight and away from hot or cold extremes. Keep out of reach of children. Keep containers sealed until ready for use.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls: General mechanical ventilation can be expected to effectively remove and prevent build up of any dust generated from handling this product in a closed environment.

Personal Protection:

Eyes: Avoid contact with eyes.

Hands: Avoid skin contact by using gloves.

Respiratory: No respiratory protection required under normal conditions of use.

Other: Open wounds or skin surface disruptions should be covered with a chemical resistant patch to minimize absorption risks.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Material is a light brown/orange liquid.

Odor: aromatic thyme

Odor threshold: NA

pH: 5.6 – 7.3 at 100%

Melting point: NA

Freezing Point: Approx -2°C (30°F)

Boiling Point: 100.6°C (212°F)

Flash point: NA

Evaporation rate: NA

Flammability: Not flammable

Upper/lower flammability/explosive limits: Not flammable

Vapor Pressure: NA

Vapor Density: NA

Density: ca. 0.91 g/mL at 20°C

Water Solubility: emulsifiable

Partition coefficient: NA

Auto-ignition temperature: NA

Decomposition temperature: NA

Viscosity: NA

Section 10: STABILITY AND REACTIVITY

Chemical Stability: This material is chemically stable under normal storage and handling conditions.

Hazardous Decomposition: No decomposition products expected under normal conditions of use.

Hazardous Polymerization: Not known to occur.

Section 11: TOXOLOGICAL INFORMATION

Chronic Toxicity: None known

Mutagenic Effects: None known

Teratogenic Effects: None known

Developmental Toxicity: None known

Carcinogenic Effects: None known

Acute Effects on Humans: May cause skin, eye, and respiratory irritation.

Sensitization: Repeated or prolonged exposure to the substance at concentration above the exposure limits may cause respiratory tract and lung sensitization.

Existing Medical Conditions Aggravated: None known

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity: Do not allow to get into surface water, drains, and ground water. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

Environmental Fate: No data available regarding the environmental fate or biodegradation.

Section 13: DISPOSAL CONSIDERATION

EPA Waste Number: Non-hazardous waste

Treatment: Dispose of according to all federal, state/provincial and local environmental regulations.

Section 14: TRANSPORT INFORMATION

This product is non-hazardous for transport according to the U.S. Department of Transportation Services

UN Number: 3082 Class 9 Packaging Group III

Dangerous Goods Class: Non-hazardous

This product is non-hazardous for storage and transport according to the U.S. Department of Transportation Regulations. *MB-PI* should be labeled an environmentally hazardous substance, liquid, N.O.S., due to its marine toxicity.

Section 15: REGULATORY INFORMATION

US Federal Regulations:

Product Information: This 25(b) product is exempt from registration with the federal Environmental Protection Agency under FIFRA regulations and is considered non-hazardous.

Section 16: OTHER INFORMATION

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