

MET ZONE

Granular Bioinsecticide

Introduction

MET Zone Granular Bioinsecticide, containing spores of insect pathogenic fungus *Metarhizium anisopliae* on a grain matrix. When applied to growing medium, once insect come into contact with the fungus, it penetrates the exoskeleton and grows rapidly inside the insect causing its death within 3-5 days, as insects are infected, other insects that come into contact with them may also become infected, this infectious agent can remain viable for up to 9 months after the host has died.



Composition

ACTIVE INGREDIENT: *Metarhizium anisopliae*

Bacteria count 2×10^8 CFU/g , granular type, 1 kg or 5 kg per foil bag

Target Insect

- Grub
- Weevil
- Thrips
- Cutworm
- Ticks
- Wireworm
- Mole Cricket
- Termites

Mode of Action

- It infects all the stages of insects including eggs, larvae, pupal, nymphal and adult's. The conidial spores enters the host through pores of its sense organs and start germinating. It starts producing swelling in the germ tube and deriving nutrition from the host. The fungus then produces a lateral extension of hyphae inside insect body which starts feeding on insects internal contents.
- It also produce secondary metabolites that helps the fungus overcome the host defences. After consuming internal contents fungus breaks out of insects making the insect appear fuzzy.
- It infects the insect on contact and does not need to be consumed by the host to cause infection. *Metarhizium anisopliae* starts multiplying due to availability of moisture and target pests. It starts pathogenising in colonies as the infection spreads from insect to insect hence the entire colony gets pathogenised. Therefore, It is used for long term control.

Benefit:

- Broad-spectrum pest control
- Ecofriendly and certified organic products
- Microbial fungicide, non-drug resistance
- Helps the plant to attain better health and yield
- Useful for soil insects as well as foliage feeding insects
- It spores stay on insect debris, organic matter and soil particles and provide prolonged protection.

Dosage & Method

- Apply 60- 90 kg per ha to moist soil medium, sing the higher application rate when pest pressure is expected to be high.
- Apply Met Zone Granular Bioinsecticide prior to or during planting by thoroughly mixing the product into the growing medium, ensuring even distribution. Soil should be moist at the time of application and maintained in a moist condition after application for best performance.
- Do not mix fungicides in growth medium containing Met Zone Granular Bioinsecticide. Keep the plants above 16°C and maintain good drainage.

- Met Zone Granular Bioinsecticide is grown on cereal grains that will decompose in the growing media. Pests likely to be attracted by grains, such as rodents, must be controlled prior to use of this product.

Compatibility:

- Compatible with well rotten FYM / compost / vermi compost.
- Don't mix with any chemical fungicide.
- Alternate spray with chemical insecticides, botanical insecticides may be applied.
- Avoid usage during high temperature.
- Always use in evening time.
- Safe to Human, mammals, natural parasites and predators.
- Exempted from residue tolerance limit.

Caution

KEEP OUT OF REACH OF CHILDREN. Keep away from food, drink, and animal feed.

Causes eye and skin irritation. DO NOT get in eyes or on skin. Avoid contact with clothing.

Avoid breathing dust. Applicators and other handlers must wear: Long-sleeved shirt and long pants, waterproof gloves, shoes and socks, eye goggles, and a dust-mist filtering respirator/mask (MSHA/NIOSH approval number prex TC-21C) or a NIOSH approved respirator/mask with any N-95, R-95, P-95 or HE filter. Wash thoroughly with soap and water after handling. Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Packing and shelf life

2 year shelf life, 1 kg per foil bag, 10 kg per carton

Storage

Keep in original container during storage.



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Store product in cool, dry, well-ventilated place away from seed, feed, fertilizer or other pesticides. Keep away from direct sunlight, fire or open flame, or other source of heat.

Met Zone Granular Bioinsecticide consists of living microbes. Store closed product in a cool dry place at 23°C. Unopened product has a viable shelf-life of 12 months from date of manufacture.

Exposing product to temperatures up to 35°C will reduce the shelf-life to 1 month. Do not freeze.