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**Met52™ GRANULAR BIOINSECTICIDE**  
**For Outdoor and Greenhouse Uses**

COMMERCIAL  
GRANULAR

GUARANTEE: *Metarhizium anisopliae* strain F52.....9.0 × 10<sup>8</sup> colony forming units (CFU)/g

REGISTRATION NO: 29147 PEST CONTROL PRODUCTS ACT

WARNING - EYE AND SKIN IRRITANT  
POTENTIAL SENSITIZER

**Net Contents \_\_\_\_\_**

Novozymes BioAg Limited  
3935 Thatcher Avenue  
Saskatoon, Saskatchewan, Canada  
S7R 1A3  
1-888-744-5662

Batch Code/Expiry Date: XXXX/dd-mm-year

**READ THE LABEL BEFORE USING**

**PRECAUTIONS:** 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 prefix 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.

**ENVIRONMENTAL HAZARDS:** DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes. DO NOT allow effluent or runoff from greenhouses containing this product to enter lakes, streams, ponds or other waters. For guidance contact the Provincial Regulatory Agency.

**FIRST AID:**

**IF SWALLOWED:** Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre. Do not give anything by mouth to an unconscious person.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes.

**IF INHALED:** Move person to fresh air.

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

**TOXICOLOGICAL INFORMATION:** Treat symptomatically.

## DIRECTIONS FOR USE

**GENERAL:** Met52 Granular Bioinsecticide is composed of spores of the insect pathogenic fungus *Metarhizium anisopliae* Strain F52 on a grain matrix. Once the product is incorporated into the growing medium, insects that come into contact with the fungus will become infected. The spores of *Metarhizium anisopliae* attach to the surface of the insect, germinate and begin to grow. It will penetrate the exoskeleton of the insect and grow very rapidly inside the insect, causing the insect to die. Under ideal conditions, it usually takes 3 to 5 days, once the insect is exposed for death to occur. As insects are infected, other insects that come into contact with them may also become infected. Depending on cultural practices and environmental conditions, control may last up to nine months.

**APPLICATION INSTRUCTIONS:** Apply Met52 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.

### **Applications to Growing Media for Container Grown Crops:**

Apply 500 g to 1.5 kg/m<sup>3</sup> of moist soil medium, using the higher application rate when pest pressure is expected to be high. For thrips apply at 1.5 kg/m<sup>3</sup>. Uniformly incorporate the Met52 Granular Bioinsecticide throughout the growing medium.

Do not mix fungicides in growth medium containing Met52 Granular Bioinsecticide. Keep the plants above 16°C and maintain good drainage. Met52 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.

### **INSECTS CONTROLLED:**

- Black Vine Weevil (all growth stages)
- Strawberry Root Weevil (all growth stages)
- May reduce number of Thrips

### **SITES FOR USE:**

Container-grown ornamentals, including flowering and foliage plants, shrubs, and shade and forest tree seedlings.

This product may be used in container-grown crops in greenhouses and in outdoor nurseries.

**STORAGE:** Keep in original container during storage. 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.

Met52 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.

**DISPOSAL:**

1. Triple- or pressure rinse the empty container. Add the rinsings to the treatment site.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the empty container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

**NOTICE TO USER:** This pest control product is to be used only in accordance with the directions on the label. It is an offence under the *Pest Control Products Act* to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.