

# MERIT<sup>®</sup> 0.5 G

## INSECTICIDE

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GRANULAR

FOR SYSTEMIC CONTROL OF THE LARVAE OF EUROPEAN CHAFER, JAPANESE BEETLE AND BLACK TURFGRASS ATAENIUS BEETLE AND SUPPRESSION OF EUROPEAN CRANE FLY LARVAE (LEATHERJACKETS) IN TURFGRASS INCLUDING SOD FARMS

### COMMERCIAL

GUARANTEE: Imidacloprid ..... 0.5%

REGISTRATION NO. **25933** PEST CONTROL PRODUCTS ACT

**READ THE LABEL BEFORE USING  
KEEP OUT OF REACH OF CHILDREN**



**CAUTION**      **POISON**

**CAUTION**      **EYE IRRITANT**

**NET CONTENTS: 13.6 KILOGRAMS**

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A Division of Bayer CropScience

**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 a control 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.

## **DIRECTIONS FOR USE**

Read these entire DIRECTIONS FOR USE AND GENERAL INFORMATION before using MERIT 0.5 G Insecticide.

## **GENERAL INFORMATION**

### **APPLICATION TO TURFGRASS**

MERIT 0.5G Insecticide can be used for the control of soil inhabiting life stages of European chafer beetle, Japanese beetle, and Black Turfgrass Ataenius beetle and for the suppression of European crane fly larvae (leather jackets). MERIT 0.5 G Insecticide can be used as directed on turfgrass in sites such as home lawns, business and office complexes, shopping complexes, multi-family residential complexes, golf courses, airports, cemeteries, parks, playgrounds, athletic fields and sod farms.

The active ingredient in MERIT 0.5 G Insecticide has sufficient residual activity so that applications can be made preceding the egg laying activity of the target pests. High levels of control can be achieved when applications are made preceding or during the egg laying period. The need for an application can be based on monitoring of the site, previous records or experiences, current season adult trapping or other methods. Applications should be made prior to egg hatch of the target pests, followed by sufficient irrigation or rainfall (5 -10 mm) to move the active ingredient through the thatch. Avoid overwatering (more than 20 mm). Avoid runoff or puddling of irrigation water following application.

The treated turf area must be in such a condition that the rainfall or irrigation water will penetrate vertically into the soil profile, which will ensure an adequate distribution of the active ingredient. Avoid application of MERIT 0.5 G Insecticide to turfgrass areas which are waterlogged or saturated, which will not allow penetration of the active ingredient into the plant root zone.

Apply MERIT 0.5 G Insecticide ONLY ONCE per year as directed by this label.

### **APPLICATION EQUIPMENT**

Apply MERIT 0.5 G Insecticide uniformly over the area being treated with normally used granular application equipment. Both drop-type and rotary-type spreaders may be used to apply MERIT 0.5 G Insecticide. Avoid the use of spreaders which would apply the material in narrow, concentrated bands. Calibrate application equipment prior to use according to the manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly and accurately.

**DO NOT APPLY BY AIR.**

**SPREADER SETTINGS FOR MERIT 0.5 G INSECTICIDE**

The chart below can be used as guide for establishing an accurate rate of MERIT 0.5 G Insecticide for several commonly used application equipment. Application rates will vary depending upon speed, equipment wear and condition of spreader. Carefully calibrate application equipment prior to commercial use of this product.

SPREADER	SPEED (km/h)	SETTINGS
		56 kg/ha
Scotts Acupro 2000	5	G ½
Scotts SR 2000	5	G ½
Scotts R 8	5	H
Lesco 6000	5	B ½
Lesco Commercial Plus (Model 705699)	5	7

**RECOMMENDED APPLICATIONS**

CROP	PEST	DOSAGE MERIT 0.5 G INSECTICIDE	REMARKS
Turfgrass: Golf Courses, Sod Farms and Lawns (Home, business and office complexes, shopping complexes, multi-family residential complexes, airports, cemeteries, parks, playgrounds, and athletic fields).	<b>For Control of the Larval Stage:</b>  Japanese beetle European chafer beetle Black turfgrass ateanius.	56 kg/ha or 560 g per 100 m <sup>2</sup>	For optimum control, make application prior to egg hatch of the target pest.  * For suppression of early fall larval stages of crane fly (larvae known as leatherjackets) apply MERIT 0.5G Insecticide to turfgrass areas known to be infected with leatherjackets. Application timing should commence when adult crane flies take flight in August and September and begin laying eggs.
	<b>For Suppression of the Larval Stage:</b> European Crane Fly Larvae*		

Be sure to read "APPLICATION EQUIPMENT" Section of this label.

Consult your local Agricultural (Horticultural) Advisor for more specific information regarding timing of application. In Halifax, Nova Scotia, consult Canadian Food Inspection Agency personnel for more specific information regarding monitoring and timing of application.

**NOTE:** For optimum control, irrigation or rainfall should occur within 24 hours after application to move the active ingredient through the thatch. On golf courses, irrigate treated areas following application. Avoid mowing turf or lawn area until after irrigation or rainfall has occurred so that uniformity of application will not be affected. Apply MERIT 0.5 G Insecticide only once per year as directed by this label. If Merit 0.5 G Insecticide was applied to a turfgrass area earlier in the summer season for Japanese beetle or European chafer or Black turfgrass ateanius, Do not re-apply for leatherjacket suppression in the same year.

## **RESISTANCE MANAGEMENT RECOMMENDATIONS**

For resistance management, please note that MERIT 0.5G Insecticide contains a Group 4 insecticide. Any insect population may contain individuals naturally resistant to MERIT 0.5G Insecticide and other Group 4 insecticides. The resistant individuals may dominate the insect population if this group of insecticides is used repeatedly in the same fields. Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay insecticide resistance:

- Where possible, rotate the use of MERIT 0.5G Insecticide or other Group 4 insecticides with different groups that control the same pests in a field.
- Insecticide use should be based on an IPM program that includes scouting, record keeping, and considers cultural, biological and other chemical control practices.
- Before applying MERIT 0.5G Insecticide, correctly identify the pest and ensure economic and agronomic thresholds are met as recommended by local provincial or IPM specialists.
- Monitor treated pest populations for resistance development.
- Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area.
- For further information or to report suspected resistance contact Bayer CropScience via internet at [www.bayercropscience.ca](http://www.bayercropscience.ca) or phone 1-888-283-6847.

## **PRECAUTIONS**

### **KEEP OUT OF REACH OF CHILDREN**

Harmful if swallowed or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes, or clothing. Wear long-sleeved shirt, long pants, and chemical-resistant gloves when handling. Wash thoroughly with soap and water after handling.

## **RESTRICTIONS**

Do not graze treated areas or use clippings from treated areas for feed or forage. Do not plant any food crop within one year of a treatment with MERIT 0.5G Insecticide.

## **ENVIRONMENTAL HAZARDS**

Keep out of lakes, streams, ponds or other aquatic systems.

Do not apply to terrains where there is a potential for surface run-off to enter aquatic systems.

Do not mix, load or clean equipment within 30 metres of wellheads or aquatic systems. Do not contaminate water when disposing of equipment washwaters.

This product is highly toxic to aquatic invertebrates.

Apply this product only in accordance with this label.

This chemical demonstrates the properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

### **FIRST AID**

**If swallowed:** Call a poison control centre or doctor immediately for treatment advice. 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 or doctor. 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. Call a poison control centre or doctor for treatment advice.

**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. Call a poison control centre or doctor for treatment advice.

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

**TOXICOLOGICAL INFORMATION:** No specific antidote is available. Treat the patient symptomatically.

### **STORAGE AND DISPOSAL**

**PESTICIDE STORAGE:** Store in a cool, dry place and in such a manner as to prevent cross contamination with other pesticides, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.

**DISPOSAL:** Do not contaminate water, food, or feed by storage or disposal.

1. Thoroughly empty the contents of the container into application equipment.
2. Follow provincial instructions 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.

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