



**Merit<sup>®</sup>**  
**GRANULAR**

# Product

## information sheet

### // BEST USES

Preventative control of European chafer, Japanese beetle, and black turfgrass ataenius grub larvae. Also provides suppression of European marsh crane fly larvae (leatherjackets).

### // KEY STRENGTHS

Merit<sup>®</sup> Granular is a broad-spectrum systemic insecticide that can be conveniently applied using a rotary spreader. Merit must be incorporated into the soil through rainfall or irrigation following application to be effective. Once absorbed by the roots, imidacloprid moves within the plant to protect it. As grubs feed on the roots they ingest imidacloprid and stop feeding immediately.

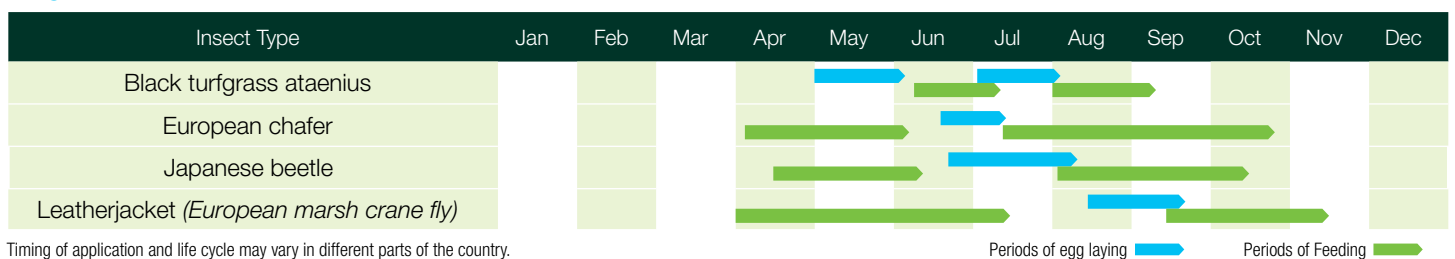
Merit Granular insecticide has sufficient residual activity that allows the application to be made preceding the egg laying activity of the adult grubs. Merit insecticide should be applied prior to the onset of the third larval stage of white grubs, which in most areas will occur around mid-August. The newly formulated Merit Granular has an innovative gypsum carrier with no fine particles. This rounded, more uniformly sized prill produces less dust and optimally penetrates into the turf canopy.

### Attributes of Merit Granular

- Proven performance on grubs.
- Wide window of application.
- Strong residual soil activity.
- Low use rates.
- Low risk to applicators and non-target organisms.
- Low environmental impact including low mammalian toxicity.
- Low to no odour.
- First and most effective insecticide in the chloronicotinyl class 4 insecticide group.



### Turfgrass Insect Time Profile



// **Active Ingredients**  
imidacloprid 0.5%

// **FRAC Code**  
insecticide

// **Systemicity**  
systemic

// **Formulation**  
granular

// **Signal Word**  
caution

## Merit Granular Rate Chart

Crop	Pest	Dosage	Remarks
<p><b>Turfgrass:</b> golf courses, sod farms and lawns (home, business, office complexes, shopping complexes, multi-family residential complexes, airports, cemeteries, parks, playgrounds and athletic fields)</p>	<p><b>For Control of the Larval Stage:</b> Japanese beetle, European chafer, black turfgrass ataenius</p> <p><b>For Suppression of the Larval Stage:</b> European marsh crane fly larvae*</p>	<p>56 kg/ha or 560 g per 100 m<sup>2</sup></p>	<p>For optimum control, make application prior to egg hatch of the target pest.</p> <p>* For suppression of early fall larval stages of crane fly (larvae known as leatherjackets) apply Merit Granular to turfgrass areas known to be infected with leatherjackets.</p> <p>Application timing should commence when adult crane flies take flight in August and September and begin laying eggs.</p>

**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 Granular only once per year as directed by this label. If Merit Granular was applied to a turfgrass area earlier in the summer season for Japanese beetle or European chafer or black turfgrass ataenius, do not re-apply for leatherjacket suppression in the same year.



(L) Stressed turf as a result of white grub activity. (C) Due to lack of root system, turf easily peels back to reveal white grubs. (R) Turf damage in area infested with white grubs due to foraging animals such as skunks and raccoons. Photos: Dr. Rob Golembiewski, and Dr. Paul Giordano – Bayer

## Spreader Setting for Merit Granular

The chart below can be used as a guide for establishing an accurate rate of Merit Granular 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	H 1/2
Scotts SR 2000	5	H 1/2
Scotts R 8A	5	H 1/2
Lesco 6000	5	A
Lesco Commercial Plus (Model 705699)	5	8 1/2
Vicon Model PS-203	7	12



Western Canada:  
Josey Groenewald  
403.463.2742

Ontario:  
Ryan Beauchamp  
226.545.0413

Ontario:  
Keith Bartlett  
226.821.2356

Atlantic Canada  
Tim Steen  
226.820.5412

Quebec:  
Normand Drapeau  
514.949.2467

es.bayer.ca 1-888-283-6847 @BayerGolfCA