

2022-1275  
2022-05-06

MASTER LABEL

*[BAG, BOTTLE, FULL CARTON, CARTON PAMPHLET – FRONT PANEL]*

beetleJUS!

Bio insect control

Live Organism

Natural Active Ingredient\*

WATER DISPERSIBLE POWDER

*Controls adult Japanese beetles and other beetles eating foliage [or grubs eating plant roots in Home Landscapes and Gardens]*

DOMESTIC

READ THE LABEL BEFORE USING  
KEEP OUT OF REACH OF CHILDREN

ACTIVE INGREDIENT: *Bacillus thuringiensis* subsp. *galleriae* strain SDS-502 –  $8.5 \times 10^9$  CFU/g

REGISTRATION NO.: 33320 PEST CONTROL PRODUCTS ACT

POTENTIAL SENSITIZER

NET CONTENTS: 25 g- 5.0 kg

Plastic - Bag, Bottle, Jar (0.025 kg - 5 kg)

Paper - Full Carton/Box & Pamphlet (0.025 kg - 5 kg)

Date of Manufacture[: see carton]

Phyllom BioProducts Corporation  
484 Lake Park Avenue #23  
Oakland, CA 94610  
(650) 322-5000  
info@phyllom.com

*\*If used inappropriately, any pest control product, including those with natural ingredients, may have health, safety or environmental risks: use this product only in accordance with label instructions.*

[BAG, BOTTLE PEEL BACK LABEL, FULL CARTON, CARTON PAMPHLET - BACK PANEL]

## DIRECTIONS FOR USE

### FOLIAR APPLICATION TO CONTROL ADULTS OF LISTED BEETLES ON ORNAMENTAL LANDSCAPE PLANTS

DO NOT apply to any body of water.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

Avoid application of this product when winds are gusty.

**beetleJUS! Bio insect control** is intended for foliar control of susceptible beetle adults in or on ornamental landscape plants in home settings. The beetle pests and plants they damage are listed in the following table. After eating treated foliage, susceptible beetles will soon stop feeding and then die over a period of days.

Beetle Adult Stage	Plants
Japanese beetle	any ornamental plant
Asiatic garden beetle	
Oriental beetle	
Rose chafer	

**How to Mix & Apply to Foliage:** **beetleJUS! Bio insect control** can be applied with a trigger, hand-held, backpack, hose-end, or other suitable sprayers for such use. Fill the sprayer partially with clean water. Next, add the specified rate of **beetleJUS! Bio insect control** (as shown in the table below) to the sprayer. Close the sprayer filler opening, then vigorously shake the sprayer to ensure a uniform dispersion in the spray tank water. Apply in sufficient water to thoroughly wet the plant foliage while avoiding excessive runoff. Mix only as much spray as needed for a single treatment. Repeat as needed (usually weekly) until the beetles are gone. Multiple treatments may be needed if beetles fly in from neighbouring properties. Consult with local horticultural specialists to access information about treatment timing for beetle pests found in your community.

**Application Rates:** **beetleJUS!** is to be applied at the rate range summarized below. The low rate is to be used during periods of relatively low infestation of the target beetle adult pest(s) that are feeding on foliage. This period of low rate treatment can be timed by observing the presence of the target beetle and damage to foliage. Consult with local horticultural specialists to access information, including growing degree day models, for beetle pests found in your community.

The low rate should be used at the time the model predicts first adult emergence from the soil. The high rate of application should be used within 7 days after first adult emergence or during peak beetle flight and each 7 days thereafter until the infestation subsides. When in doubt, use the high rate.

Required Spray Volume	beetleJUS! Rate Range
0.5 litre	7.5-15 Grams
5.0 litres	75-150 Grams
50 litres	750-1500 Grams

15 mL (1 Tablespoon) = 8 grams

### SOIL SURFACE DRENCH APPLICATION TO CONTROL LISTED BEETLE GRUBS ATTACKING ROOTS OF ORNAMENTAL LANDSCAPE PLANTS

**beetleJUS! Bio insect control** is intended for control of susceptible beetle grubs in or on ornamental landscape plants in home settings. The beetle grub pests and plants they damage are listed in the following table. After eating the treated soil or plant roots, susceptible beetle grubs will stop feeding and then die over a period of days.

Beetle Grub Stage	Plants
Japanese beetle	Any ornamental plant
Asiatic garden beetle	
European chafer	
Green June beetle	
Northern masked chafer	
May or June beetles	
Oriental beetle	
Southern masked chafer	

**How to Mix & Apply to roots of ornamental plants: beetleJUS! Bio insect control** can be applied with a trigger, hand-held, backpack, hose-end, or other suitable sprayers for such use. Fill the sprayer partially with clean water. Next, add the specified rate of **beetleJUS! Bio insect control** (as shown in the table below) to the sprayer. Close the sprayer filler opening, then vigorously shake the sprayer to ensure a uniform dispersion in the spray tank water. Apply in sufficient water to thoroughly soak all of the soil surface above the plant roots requiring protection from the grubs. Immediately after beetleJUS! application irrigate the treated soil surface area to drench the beetleJUS! into the root zone of the plants requiring protection. Alternatively, beetleJUS! may be applied a day or two before moderate rainfall is expected to provide a natural rainfall drench. Mix only as much spray as needed for a single treatment. Consult with local horticultural specialists to access information about treatment timing for beetle pests found in your community.

area to be treated	Recommended Spray Volume	beetleJUS! Rate Range
1 square metre	0.5 litre	1.25-1.95 Grams
10 square metres	5.0 litres	12.5-19.5 Grams
100 square metres	50 litres	125-195 Grams

15 mL (1 Tablespoon) = 8 grams

## LAWN DRENCH APPLICATION TO CONTROL LISTED BEETLE GRUBS ATTACKING TURFGRASS

**beetleJUS! Bio insect control** is intended for control of susceptible beetle or weevil grubs affecting home lawns. The beetle grub pests and plants they damage are listed in the following table. After eating the treated soil or turfgrass roots, susceptible beetle and weevil grubs will stop feeding and then die over a period of days.

Beetle/Weevil Grub Stage	Plants
Annual bluegrass weevil	turfgrass
Asiatic garden beetle	
Black turfgrass ataenius	
European chafer	
Green June beetle	
Japanese beetle	
Northern masked chafer	
May or June beetles	
Oriental beetle	
Southern masked chafer	

**How to Mix & Apply drench into turf root zone: beetleJUS! Bio insect control** can be applied with a trigger, hand-held, backpack, hose-end, or other suitable sprayers for such use. Fill the sprayer partially with clean water. Next, add the specified rate of **beetleJUS! Bio insect control** (as shown in the table below) to the sprayer. Close the sprayer filler opening, then vigorously shake the sprayer to ensure a uniform dispersion in the spray tank water. Apply in sufficient water to thoroughly soak all of the turf requiring protection from the grubs. Immediately after beetleJUS! application irrigate the treated turf to drench the beetleJUS! into the root zone of the turf. Alternatively, beetleJUS! may be applied less than 24 hours before moderate rainfall is expected to provide a natural rainfall drench. If rainfall does not occur then a second application is recommended. Mix only as much spray as needed for a single treatment. Consult with local horticultural specialists to access information about treatment timing for beetle and/or weevil pests found in your community.

Turf area to be treated	Recommended Spray Volume	beetleJUS! Rate Range
1 square metre	0.5 litre	1.25-1.95 Grams
10 square metres	5.0 litres	12.5-19.5 Grams
100 square metres	50 litres	125-195 Grams

15 mL (1 Tablespoon) = 8 grams

**ATTENTION: Do not use food utensils for measuring.**

**Application Rates: beetleJUS!** is to be applied at the rate ranges on the label for soil application. The product is to be irrigated into the soil profile to perform well and to prevent point of contact

of product with people, pets and beneficial surface insects such as bees. The low rate can be used at the time, typically late summer or early fall, when newly hatched grub larvae are feeding on the roots of turfgrass. The high rate is to be used if the following is observed in turfgrass: 1). wilted grass blades, followed by brown turf patches or 2). spongy, damaged turf that lifts easily off the soil with possibly the presence of grubs underneath or 3). the presence of secondary foraging damage to the turfgrass by various birds and animals such as crows, skunks, moles, pigs and raccoons which may damage turf in search for grubs.

**PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN.** May cause sensitization. Avoid contact with skin or clothing. Avoid inhaling/breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Do not re-enter or allow re-entry into treated areas for 4 hours or until sprays have dried.

**ENVIRONMENTAL PRECAUTIONS:**

To reduce runoff from treated areas into aquatic habitats avoid application to areas with a moderate to steep slope, compacted soil, or clay.

Avoid application when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

**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 INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. 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:** Treat symptomatically.

**STORAGE:** Keep in original container during storage. Store product in a cool, dry, well-ventilated place. Keep away from direct sunlight, fire or open flame, or other source of heat. Store at temperatures between 4–25°C. Close opened packages tightly. This product should be used within 16 months from the date of manufacture.

To prevent contamination store this product away from food or feed.

**DISPOSAL:** DO NOT reuse the empty containers. Dispose in household garbage. Unused or partially used products should be disposed at provincially or municipally designated hazardous waste disposal sites.

*[REDUCED TEXT CARTON LABEL]*

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*[CARTON – BACK/SIDE PANELS]*

#### **DIRECTIONS FOR USE:**

- For **foliar application** to control adult beetles (Japanese beetle, Asiatic garden beetle, Oriental beetle and Rose chafer) on ornamental landscape plants.
- As a **soil surface drench application** to control beetle grubs (Japanese beetle, Asiatic garden beetle, European chafer, Green June beetle, Northern masked chafer, May or June beetles, Oriental beetle, Southern masked chafer) attacking roots of ornamental landscape plants.
- As a **lawn drench application** to control beetle grubs (Annual bluegrass weevil, Asiatic garden beetle, Black turfgrass atenioides, European chafer, Green June beetle, Japanese beetle, Northern masked chafer, May or June beetles, Oriental beetle, Southern masked chafer) attacking turfgrass.

Can be applied with a trigger, hand-held, backpack, hose-end, or other suitable sprayers. Fill the sprayer partially with clean water. Next, add the specified rate of **beetleJUS! Bio insect control** (as shown in the tables on the enclosed pamphlet) to the sprayer. Close the sprayer filler opening, then vigorously shake the sprayer to ensure a uniform dispersion in the spray tank water. Apply in sufficient water to thoroughly soak application/treatment area.

**IMPORTANT:** See inside pamphlet for complete Directions for Use (including mixing & application directions), Environmental Precautions, Storage & Disposal.

**PRECAUTIONS:** KEEP OUT OF REACH OF CHILDREN. May cause sensitization. Avoid contact with skin or clothing. Avoid inhaling/breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. Do not re-enter or allow re-entry into treated areas for 4 hours or until sprays have dried.

**FIRST AID:** IF SWALLOWED: Call a poison control center 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 center 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 center or doctor for treatment advice. IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center 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 center or doctor for treatment advice. Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

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