

2021-6702
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[PRIMARY PANEL]

Wilson®
Lawn WeedOut®
Bio-Phoma™ Commercial

Eliminate The Weeds You Have – Prevent New Weeds From Growing
[Flash] With Bio-Phoma™

HERBICIDE
Granular

COMMERCIAL

REG. NO. 30136 P.C.P. ACT

GUARANTEE: *Phoma macrostoma* (naturally occurring fungus) strain 94-44B...89.3%
Equivalent to a minimum of 1×10^3 CFU/g

CAUTION – EYE IRRITANT
POTENTIAL SENSITIZER

READ THE LABEL *[AND PEEL BACK PANEL]* BEFORE USING
KEEP OUT OF REACH OF CHILDREN

1 kg – 25 kg
Date of Manufacture:

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[SECONDARY PANEL]

**[OPEN THE PEEL BACK PANEL
AND READ THE DIRECTIONS
FOR USE AND PRECAUTIONS
BEFORE USING.]**

Wilson® Lawn WeedOut® Bio-Phoma™ Commercial provides effective control against weed seeds (pre-emergent) and established broadleaf weeds (postemergent). It will not harm emerging or established turfgrass. It can be applied around established landscape, field grown and container ornamental plants when used as directed.

	Weeds controlled	Weeds suppressed
1 application Pre-emergence	Dandelion Scentless chamomile English daisy Broadleaf plantain Wild mustard Common groundsel	White clover Canada thistle Black medic Chickweed (partial) Common ragweed (partial)
2 or 3 applications Post-emergence	Dandelion White clover Black medic Canada thistle	Broadleaf plantain

What is Bio-Phoma™?

This product contains *Phoma macrostoma*; a bioherbicide which is derived from a naturally occurring fungus discovered growing on Canada thistle plants in Saskatchewan.

DIRECTIONS FOR USE:

- As this product is not registered for the control of pests in aquatic systems, **DO NOT** use to control aquatic pests.
- **DO NOT** contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.
- **DO NOT** apply by air.

TO PREVENT NEW WEEDS IN TURF (PRE-EMERGENT WEED CONTROL)

- **Where to Apply:**
 - Can be applied to established lawns as well as newly seeded lawns.
- **How to Apply / What to Expect:**
 - Apply to established lawns in the early spring or fall before weeds appear in your lawn and have a chance to germinate. After application the appearance of new weeds will be significantly reduced or eliminated, while the lawn remains unaffected.
 - Can be applied in either the spring or fall at the same time or soon after planting grass seed to prevent weed establishment. Emerging grass is unaffected.

TO ELIMINATE WEEDS IN TURF (POST-EMERGENT WEED CONTROL)

- **Where to Apply:**
 - Can be applied to established lawns as well as newly seeded lawns.
- **How to Apply / What to Expect:**
 - Apply directly to weeds on the lawn 2-3 times per season at monthly intervals. Product is working when the leaves turn yellow then become bleached white. The patented Bio-Phoma formula causes weeds to turn white and their roots to stop growing. The white weeds cannot produce chlorophyll and eventually starve to death.
 - Symptoms may first appear in about one week after application when temperature is between 15-30°C.

TO PREVENT WEEDS IN FIELD GROWN NURSERY AND LANDSCAPE ORNAMENTALS

- **Where to Apply:**
 - Can be applied to field grown nursery and landscape ornamentals.
- **How to Apply / What to Expect:**
 - Apply this product to dry foliage only.
 - In newly planted areas, irrigate with approximately 1.25 to 2.5 cm (½ to 1 inch) of water from irrigation or rainfall to firm soil around the root system of transplants.
 - Prior to applying this product in existing landscapes or field nurseries, remove established weeds from areas to be treated with light cultivation, post-emergent herbicide, or an appropriate combination of both.
 - This herbicide should be applied at the recommended rate with a properly calibrated spreader, which will assure accurate, even particle distribution.
 - For best results, water immediately after application to remove granules from plant foliage. If no irrigation is available, try to time the application prior to expected rainfall. Lack of irrigation or rainfall may result in poor weed control.
 - Allow 1 month between any two applications of this product or a rotational partner.
 - Always read the entire product label prior to application to make sure the rotational partner is suited for the crop and use site.

TO PREVENT WEEDS IN CONTAINER ORNAMENTALS

- **Where to Apply:**
 - Can be applied to container grown ornamentals.
- **How to Apply / What to Expect:**
 - Apply this product to dry foliage only.
 - Remove established weeds from potted liners prior to transplanting into containers. After planting, irrigate with approximately 1.25 to 2.5 cm (½ to 1 inch) of water to firm potting media around root system.
 - After two regular irrigation applications and after foliage has dried, broadcast product evenly over container growing area.
 - This product should be applied at the recommended rate with a properly calibrated spreader, which will assure accurate, even particle distribution.
 - For best results, water immediately after application to remove granules from plant foliage.

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- Allow at least 1 month span between any two applications of this product or a rotational partner.
- Always read the entire product label prior to application to make sure the rotational partner is suited for the crop and use site.

PRODUCT USE SITES

TURFGRASS USES

This product can be used on established turfgrass and during the new seeding of the following grasses to prevent broadleaf weeds and control existing broadleaf weeds: Bentgrass, bermudagrass (do not use at the time of seeding with bermudagrass), fine fescue, tall fescue, Kentucky bluegrass, perennial ryegrass, annual ryegrass, and mixtures of these grasses without harming lawn grasses.

ORNAMENTAL USES

The ornamental plants on the following list have been tested and shown to be safe when treated with this product according to the following precaution. When used as a pre-emergent herbicide apply over the top of established desired plants only when the foliage is dry and any product remaining on the foliage should be removed with light irrigation. Flowering annuals were found to tolerate the bioherbicide when transplanted into garden beds treated with the pre-emergent rate. *[NOTE: There is limited ornamental plant testing as of September 1, 2009.]*

This product may be used on plant species not listed on this label. All species and varieties of ornamental plant types have not been tested. If a user wishes to make an application to an ornamental plant type not listed on the label, it is suggested that a trial application be performed first. **THE USER ASSUMES RESPONSIBILITY FOR ANY CROP DAMAGE OR OTHER LIABILITY.** Do not treat plants grown for food or feed. Do not use treated plants for food.

A trial application should be made by applying this product to a small number of plants (20 or more) and grown under conditions similar to those which will be treated full scale. Wait 7 days before monitoring for injury symptoms.

Plants that have been found to be tolerant to this product include:

TREES

Common Name	Genus	Species
Poplar	<i>Populus</i> spp.	
Spruce, black	<i>Picea</i>	<i>mariana</i>
Pine	<i>Pinus</i> sp.	

PERENNIAL AND ANNUAL ORNAMENTALS AND GROWDCOVERS

Common Name	Genus	Species
Pot Marigold	<i>Calendula</i>	<i>officinalis</i>
Salvia	<i>Salvia</i>	<i>splendens</i>
Carolina Geranium	<i>Geranium</i>	<i>carolinianum</i>
Snapdragon	<i>Antirrhinum</i>	<i>majus</i>

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Pansy	<i>Viola</i>	<i>tricolour</i>
Coral Bells	<i>Heuchera</i> sp.	
Yarrow	<i>Achillea</i>	
Hydrangea	<i>Hydrangea</i>	<i>arborescence</i>
Blazing-star	<i>Liatris</i>	<i>spicata</i>
Rhododendron x. PJM		
Forsythia x. intermedia		
Boxwood	<i>Buxus</i>	<i>sempervirens</i>
Holly	<i>Ilex</i> x.	<i>meserveae</i>
Arborvitae (<i>Thuja</i> x.)		
Cotoneaster sal. Rep.		
Petunia (<i>Petunia</i> x hybrida)		
Marigold	<i>Tagetes</i>	<i>patula</i>
Alyssum	<i>Lobularia</i>	<i>maritima</i>
Crimson Sage	<i>Salvia</i>	<i>coccinea</i>
Periwinkle	<i>Catharanthus</i>	<i>roseus</i>

FORAGE GRASSES

Common Name	Genus	Species
Perennial ryegrass	<i>Lolium</i>	<i>perenne</i>
Creeping red fescue	<i>Festuca</i>	<i>rubra</i>
Tall fescue	<i>Festuca</i>	<i>arundinacea</i>
Smooth brome grass	<i>Bromus</i>	<i>inermis</i>
Meadow brome grass	<i>Bromus</i>	<i>biebersteinii</i>
Timothy grass	<i>Phleum</i>	<i>pretense</i>

SPREADER SETTINGS FOR USE IN TURF:

Spreader	Pre-Emergent Setting	Post-Emergent Setting
Earthway® Broadcast/Rotary Spreaders Apply header strips. Then apply product in longest direction of lawn. Shut off spreader or stop each time you reach a header strip. Each pass should be within 1.5 metres (5 feet) of each other to ensure an overlap.	15	18
Earthway® Drop Spreader Mow lawn first. Apply 2 header strips. Apply in longest direction of lawn, overlapping wheel marks.	15	18

[Illustration of spreading patterns]

Coverage: If not using a Earthway® spreader, apply at the pre-emergent rate of 1.65 kg per 100 sq. metres (3.4 lb per 1,000 sq. feet) or the post-emergent rate of 3.17 kg per 100 sq. metres (6.5 lb per 1,000 sq. feet) per application.

APPLICATION RATE FOR USE IN ORNAMENTALS (PRE-EMERGENT WEED CONTROL)

Application Rate Table				
Per	Square Meter	100 sq m	1000 Square Feet	Per Acre
Metric (g)	16.5	1.6 kg		
Pounds (Lbs)			3.4	147

SPOT TREATMENT APPLICATION RATES

Post-emergent Application Rate Table				
Per	Weed (20 cm diameter circle)	Square metre	Weed (8 inch diameter circle)	1000 Square Feet
Metric (g)	2	62.5		
Pounds (Lbs)			0.072 oz	12.8

APPLICATION TIPS:

- Mow prior to application. Then do not mow your lawn again until the product has been washed from the grass by rainfall or watering and the turf has dried.
- Avoid contact with desirable flowers, vegetables, and fruit bearing shrubs. If contacted wash away with water.
- This product will not control grassy weeds such as crabgrass.
- While this product is in use do not apply in conjunction with any other lawn disease control product.
- For best results, apply to wet or dry grass as long as the soil is moist when the temperature is between 15-30°C (60-85°F) in the day. To further enhance control, watering or rainfall should occur within 24-72 hours after application. Avoid applying in windy conditions.
- For best results, apply with a Earthway® spreader at the recommended setting listed above.

PRECAUTIONS: KEEP OUT OF REACH OF CHILDREN. May irritate eyes. Avoid contact with skin, eyes or clothing. Wear waterproof gloves, eye goggles, long-sleeved shirt, long pants, shoes plus socks, as well as a NIOSH approved mist filtering mask or respirator when handling, mixing/loading or applying the product and during all clean-up/repair activities. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

TOXICOLOGICAL INFORMATION: Treat symptomatically.

STORAGE: To prevent contamination store this product away from food or feed. Store unused product in original container away from children and direct sunlight. Store at 23°C or below for up to one year from the date of manufacture.

DISPOSAL:

1. Triple- or pressure-rinse the empty container. Add the rinsings to the spray mixture in the tank.
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.

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5. For information on the 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.

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 further 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.

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.

[Optional text]