

67690-15

12-29-2010

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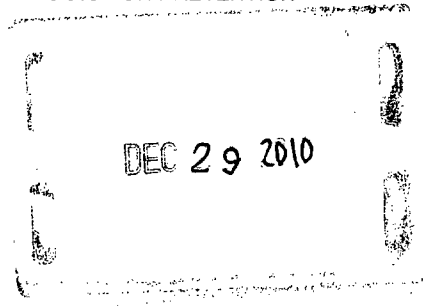


UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

James B. Messina, Agent for
SePRO Corporation
c/o Exponent
Suite 1100
1150 Connecticut Avenue, NW
Washington, DC 20036



SUBJECT: Label Amendment
Cutless 50W Turf Growth Regulator
EPA Reg. No. 67690-15; Decision #398765
Your Submission Dated December 16, 2009

Dear Mr. Messina:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable provided that you submit the following data to the Agency by the due date:

- Guideline 870.3465 - 90-day inhalation toxicity (28 day duration) - due September 1, 2012
- Guideline 870.6200 - Neurotoxicity screening battery - due May 1, 2011
- Guideline 870.7800 - Immunotoxicity - due September 1, 2011

You must submit a copy of the final printed label. A stamped copy of the label is enclosed for your records. This label supersedes all previously accepted labels. If these conditions are not complied with, the registration will be subject to cancellation in accordance

with FIFRA. Your release for shipment of the product constitutes acceptance of these conditions. If you have any questions regarding this correspondence, contact Rose Kearns of my staff by phone at 703-305-5611 or via email at kearns.rosemary@epa.gov or Shaja Joyner at 703-308-3194 or via email at joyner.shaja@epa.gov.

Sincerely,



Cynthia Giles-Parker
Branch Chief
Fungicide Branch
Registration Division (7504P)

Enclosure

Cutless* 50W Turf Growth Regulator

EPA Reg. No. 67690-15

Registration Notes: Label amendment revised label submitted to EPA 9-16-10.

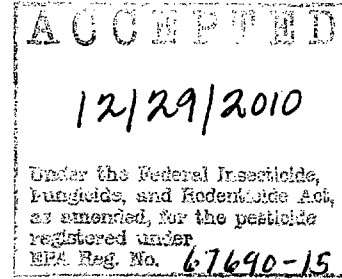
Label Notes:

General Label changes:

1. As allowed by PRN 1998-10, reformatted the label to comply with PRN 2007-4 for non-rigid containers.
2. Added PPE and User Safety Recommendations to the label.
3. Added Dollar Spot suppression language.
4. Added Edging/Banding applications (i.e. perimeter of lawns, landscape beds, sidewalks, curbs, parking lots, driveways, posts, mailboxes, building structures, gravestones, and fences)
5. Corrected minor typographical errors and formatting, throughout label.

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[Base label for Non-refillable, Non-rigid containers, any size]



Cutless* 50W

Turf Growth Regulator

FOR GROWTH MANAGEMENT AND QUALITY IMPROVEMENT OF PERENNIAL COOL AND WARM SEASON TURFGRASSES.

Active Ingredient

| | |
|--|---------------|
| flurprimidol: α -(1-methylethyl)- α -[4-(trifluoromethoxy)phenyl]-5-pyrimidinemethanol | 50.0% |
| Other Ingredients | 50.0% |
| TOTAL | 100.0% |

Contains 0.50 pound active ingredient per one (1) U.S. pound of product.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Keep Out of Reach of Children

CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail).

Harmful If Swallowed or Inhaled. Causes Eye Irritation. Avoid breathing dust or spray mist and contact with eyes, skin or clothing.

| FIRST AID | |
|-------------------------------|--|
| If swallowed | <ul style="list-style-type: none"> • 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 in eyes | <ul style="list-style-type: none"> • 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. |
| If on skin or clothing | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice. |

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Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call **INFOTRAC** at **1-800-535-5053**.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Ground Water Advisory

This pesticide has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Surface Water Advisory

This product is classified as having potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs, will reduce the potential loading of flurprimidol from runoff and sediment.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all directions for use carefully before applying this product. Use only according to label directions.

Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in original container only. In case of spill, contain material and dispose as waste.

Pesticide Disposal: Excess pesticide should be used according to label directions or disposed of at an approved waste disposal facility.

Nonrefillable Container Disposal (non-rigid, any size):

(Fiber Carton/Drum and Foil Overpack): Do not reuse or refill this container. Offer for recycling if available. If recycling not available for fiber carton/drum, then dispose of both foil overpack and drum/carton in a sanitary landfill or incinerator, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Refer to inside of label booklet for additional precautionary information and directions for use.

Notice: Read the entire label before using. Use only according to label directions. **Before buying or using this product, read *Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use* and *Limitation of Remedies* at the end of the label booklet. If terms are unacceptable, return at once unopened.**

EPA Reg. No. 67690-15
FPL022210

EPA Est. No. _____
SPC - _____

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SePRO Corporation 11550 N. Meridian St., Ste. 600, Carmel, IN 46032 U.S.A.

Turf Growth Regulator

Net Contents _____

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[Front label for **Non-refillable, Non-rigid containers, any size**]



Cutless* 50W

Turf Growth Regulator

FOR GROWTH MANAGEMENT AND QUALITY IMPROVEMENT OF PERENNIAL COOL AND WARM SEASON TURFGRASSES.

Active Ingredient

| | |
|--|---------------|
| flurprimidol: α -(1-methylethyl)- α -[4-(trifluoromethoxy)phenyl]-5-pyrimidinemethanol | 50.0% |
| Other Ingredients | 50.0% |
| TOTAL | 100.0% |

Contains 0.50 pound active ingredient per one (1) U.S. pound of product.

Keep Out of Reach of Children

CAUTION / PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail).

Refer to inside of label booklet for additional precautionary information and directions for use, including storage and disposal.

Notice: Read the entire label before using. Use only according to label directions. **Before buying or using this product, read *Terms and Conditions of Use, Warranty Disclaimer, Inherent Risks of Use and Limitation of Remedies* at the end of the label booklet. If terms are unacceptable, return at once unopened.**

For additional information on our products, please visit www.sepro.com.

EPA Reg. No. 67690-15
FPL022210

EPA Est. No. _____
SPC - _____

SePRO Corporation 11550 N. Meridian St., Ste. 600, Carmel, IN 46032 U.S.A.

Turf Growth Regulator

Net Contents _____

[Label booklet text, ALL containers]

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Keep Out of Reach of Children CAUTION / PRECAUCIÓN

Harmful If Swallowed or Inhaled. Causes Eye Irritation. Avoid breathing dust or spray mist and contact with eyes, skin or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants;
- Shoes plus socks; and
- Chemical-resistant gloves (such as natural rubber or barrier laminate).

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exists, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

| FIRST AID | |
|--|--|
| If swallowed | <ul style="list-style-type: none"> • 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 in eyes | <ul style="list-style-type: none"> • 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. |
| If on skin or clothing | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice. |
| <p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. In case of emergency endangering health or the environment involving this product, call INFOTRAC at 1-800-535-5053.</p> | |

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters.

Ground Water Advisory

This pesticide has properties and characteristics associated with chemicals detected in ground water. This chemical may leach into ground water if used in areas where soils are permeable, particularly where the water table is shallow.

Surface Water Advisory

This product is classified as having potential for reaching surface water via runoff for several months or more after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs, will reduce the potential loading of flurprimidol from runoff and sediment.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all directions for use carefully before applying this product. Use only according to label directions.

Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

Product Information for Growth Regulation of Perennial Turfgrasses

Cutless 50W Turf Growth Regulator is a Type II Class B plant growth regulator (PGR) which reduces leaf blade length and stem internode elongation in turfgrasses resulting in a more

compact growth form. Growth regulation results from suppression of gibberellic acid biosynthesis. Under normal growing conditions root growth and lateral expansion of turf are not affected. An appropriate fertility program for the desired turf species should be followed in conjunction with Cutless 50W applications to provide best turfgrass enhancement and reduce potential for discoloration. Broadcast treatments should be made on medium to high quality turfgrass areas of uniform species composition. Turf containing significant amounts of coarse textured species such as tall fescue, orchardgrass, timothy, dallisgrass, etc., may respond unevenly to Cutless 50W treatment.

Benefits of Cutless 50W Applications to Turfgrass

- Shoot growth suppression of warm and cool season turfgrasses resulting in decreased mowing frequency and turfgrass clippings.
- Increased turfgrass density, wear resistance, and improved color on warm and cool season turfgrass species resulting in improved turf quality.
- Suppressed growth of *Poa annua*, reducing populations and shifting competitive growth advantage towards perennial turfgrasses.
- Improved water use efficiency of warm and cool season turfgrass resulting in pre-drought stress conditioning.

NOTICE TO USER: Turfgrass responses to Cutless 50W may vary within turfgrass species due to the large number of cultivars and varieties available. Neither the manufacturer nor seller has determined if Cutless 50W can be used safely or effectively on turfgrass species not mentioned on this label. For turfgrass species not listed on this label the user should apply Cutless 50W to a small test area to determine growth response and desired level of growth regulation prior to large scale applications.

Use Precautions for Perennial Turfgrasses

- Do not apply to putting greens other than predominantly bentgrass.
- Do not apply to overseeded bermudagrass putting greens.
- Do not apply this product to sod farms, turfgrasses grown for seed, including plants or plant materials grown for sale or research purposes.
- Do not apply to shrubs, bedding plants, and/or food plants.
- Do not apply during prolonged periods of temperature (heat or cold) or moisture stress. Also avoid applications during periods of extreme disease and insect pressure.
- Applications of Cutless 50W to newly seeded turfgrasses should be delayed until turf is well established and actively growing.
- Cutless 50W should not be applied until 6 to 8 weeks after turfgrass sprigging or laying sod. Turfgrass should be well established and actively growing prior to application.
- Do not apply to saturated soils or when a significant moisture event is anticipated. Cutless 50W may accumulate in low lying areas and cause prolonged and excessive growth regulation in those areas.
- Do not apply to areas where *Poa annua* is the desired turfgrass species or areas that contain >80% *Poa annua*.
- Additional turfgrass growth regulation may occur when Cutless 50W is tank mixed or used in conjunction with demethylation inhibitor (DMI) or sterol inhibiting fungicides.
- Do not apply to turf used for livestock production.
- Do not apply more than 3.0 lbs ai/A/year or 6 lbs/A/year of Cutless 50W.
- **Chemigation:** Do not apply Cutless 50W through any type of irrigation system.

Application Timing

Spring applications should be made after resumption of active seasonal growth of turfgrass. The final application of the season should be timed at least 4 weeks before the onset of inactive grass growth or winter dormancy. Applications to overseeded turfgrasses in dormant bermudagrass stands should be completed 4 weeks prior to expected bermudagrass green-up.

Irrigation

Cutless 50W is primarily root absorbed. To maximize growth regulator activity, treated areas should receive 0.25 to 0.5 inch of rain or supplemental irrigation within 24 hours following application and prior to the first mowing after treatment.

Turf Color and Post-Treatment Turf Management

Turfgrass treated with Cutless 50W may appear darker green in color. This color change, which appears 1 to 2 weeks after treatment, may persist an additional 3 to 6 weeks. Treated areas should be managed to encourage the growth of a healthy vigorous turf.

Poa annua (Annual Bluegrass) Conversion to Perennial Turfgrasses

Applications of Cutless 50W followed by management practices designed to encourage vigorous growth of perennial turfgrasses can reduce the *Poa annua* (annual bluegrass) competition in cool season turf and increase the cover of more desirable perennial species. *Poa annua* is more sensitive to Cutless 50W treatments and is therefore more strongly suppressed than perennial turfgrass species. Discoloration of *Poa annua* can be expected from treatments that provide a desired level of growth regulator activity in perennial grass species. This effect becomes visible 7 to 10 days after treatment and lasts 3 to 6 weeks. The degree of discoloration will be proportional to the *Poa annua* composition of the turf. Application of Cutless 50W in conjunction with soluble nitrogen fertilizers will also minimize discoloration. Application timing, rates, and precautions for perennial grass conversion through selective reduction of *Poa annua* are provided in the *Poa annua* (Annual Bluegrass) Conversion to Perennial Turfgrasses section of this label.

Application Directions

Mixing Directions

Add Cutless 50W water-soluble packets to a spray tank half filled with clean water. Begin agitation and allow the packets to dissolve and release their contents into the circulating water. Allow sufficient mixing time to ensure complete dispersion and mixing of Cutless 50W. Finish filling the spray tank. Continue agitation throughout the spraying operation to ensure uniform application. Cutless 50W should be applied using a boom-type sprayer with bypass and/or mechanical agitation calibrated to deliver 40 to 200 gallons/acre of spray solution (1 to 4.6 gallons/1000 ft²). In-line strainers and nozzle screens should be 50 mesh or larger. The use of a coloring agent to mark areas already sprayed is suggested for uniform application without skips and overlaps. Performance may be improved with the addition to the spray mix of a readily available nitrogen (N) source at 0.125 to 0.5 lbs N/1000 ft² or iron (Fe) at suggested label rates.

CUTLESS 50W RATE DIRECTIONS FOR GROWTH REDUCTION OF PERENNIAL TURFGRASS SPECIES – MULTIPLE APPLICATION PROGRAM

➤ Cool Season Turfgrasses

- Bentgrass (Golf Course Fairway Type Turf)

Multiple application program: Apply Cutless 50W to fairway height bentgrass at a rate of 0.5 to 1.0 lb/acre in early spring following resumption of active growth. Repeat applications of 0.25 to 1.0 lb/acre of Cutless 50W should be made at 2 to 6 week intervals until late summer or early fall.

- Bentgrass Putting Greens

Multiple application program: Apply Cutless 50W to bentgrass as part of an overall greens management program. An initial application of Cutless 50W should be made after bentgrass greens are growing vigorously and have been mowed 3 or 4 times. Apply Cutless 50W at a rate of 0.125 to 0.5 lb/acre (0.05 to 0.2 oz/1000 ft²). Repeat applications of 0.125 to 0.5 lb/acre (0.05 to 0.2 oz/1000 ft²) should be made at 2 to 4 week intervals.

- Kentucky Bluegrass and Perennial Ryegrass

Multiple application program: Apply Cutless 50W to Kentucky bluegrass and perennial ryegrass at a rate of 0.75 to 1.0 lb/acre in early spring following resumption of active growth. Repeat applications of 0.5 to 1.0 lb/acre should be made at 3 to 6 week intervals until late summer or early fall.

➤ **Warm Season Grasses**

- Seashore Paspalum

Multiple application program: Apply Cutless 50W to Seashore paspalum at a rate of 0.25 to 1.0 lb/acre when paspalum has completely recovered from winter dormancy and is growing vigorously. Repeat applications of 0.25 to 1.0 lb/acre of Cutless 50W should be made at 3 to 6 week intervals until late summer or early fall.

- Tifway (419), TifSport, and GN-1 Bermudagrass

Multiple application program: Apply Cutless 50W to Tifway, TifSport, and GN-1 bermudagrass at a rate of 0.25 to 0.75 lb/acre when bermudagrass has completely recovered from winter dormancy and is growing vigorously. Repeat applications of 0.25 to 0.75 lb/acre of Cutless 50W should be made at 3 to 6 week intervals until late summer or early fall.

- Zoysiagrass

Multiple application program: Apply Cutless 50W at a rate of 0.25 to 0.75 lb/acre for growth regulation of zoysiagrass when the grass has completely recovered from winter dormancy and is growing vigorously. Late summer or early fall applications of Cutless 50W are not recommended for growth regulation of zoysiagrass.

| Rate Ranges for Growth Regulation of Perennial Turfgrass Species Using a Multiple Application Program | | | |
|---|-------------------|-------------------|---------------------------------------|
| Turfgrass Species | lbs Cutless 50W/A | oz. Cutless 50W/A | Treatment Interval |
| Cool Season Turfgrasses | | | |
| Bentgrass (golf course fairway) | 0.25 - 1.00 | 4 - 16 | 2 to 6 weeks |
| Bentgrass putting greens | 0.125 - 0.50 | 2 - 8 | 2 to 4 weeks |
| Kentucky Bluegrass/ Perennial Ryegrass | 0.50 - 1.00 | 8 - 16 | 3 to 6 weeks |
| Warm Season Turfgrasses | | | |
| Seashore Paspalum | 0.25 - 1.00 | 4 - 16 | 3 to 6 weeks |
| Tifway, TifSport, and GN-1 Bermudagrass | 0.25 - 0.75 | 4 - 12 | 3 to 6 weeks |
| Zoysiagrass | 0.25 - 0.75 | 4 - 12 | 3 to 6 weeks; not in late summer/fall |

Application Information – Cutless 50W Tank Mixes With Primo Maxx® (Trinexapac-Ethyl)

Tank mixing Cutless 50W with Primo MAXX® can provide enhanced growth suppression and improved turfgrass quality of perennial turfgrass species, versus using either product alone. Plant physiological advantages of tank mixing these two PGRs include:

1. Different mode of action within the gibberellic acid (GA) biosynthesis pathway; and
2. Difference in plant site of uptake.

PGR absorption via the foliage (Type II Class A; Primo MAXX®) and roots (Type II Class B; Cutless 50W) maximizes plant uptake of each material ensuring sufficient active ingredient is available for GA inhibition.

Blocking GA biosynthesis early and late in the pathway potentially regulates GA more efficiently than higher application rates of individual compounds. Turfgrass response from Cutless 50W tank mixes with Primo MAXX® at reduced rates may be greater than with normal use rates of either product applied alone. This combination of plant growth regulators and its use are protected by United States Patent No. 7,135,435. Additional patent rights pending.

Tank Mix Use Precautions:

- Do not apply to bermudagrass putting greens.
- If *Poa annua* is the desired turf species or >25% of turfgrass stand, do not use unless *Poa annua* discoloration or injury can be tolerated.
- Rainfall or irrigation should be delayed at least 1 hour after application or until product has dried on the leaf surface but should occur within 24 hours after application.
- Desirable growth regulation during early spring or late fall when turfgrass growth and vigor are reduced may be obtained with lower rates of both products.

NOTICE TO USERS: This label makes no warranties concerning the performance of Type II Class A PGRs, including Primo MAXX®. Read and follow all label directions including Directions for Use, Precautionary Statements, and Restrictions and Limitations for Primo MAXX®.

Rate Ranges for Cutless 50W Plus Type II Class A PGR Tank Mixes

| Turfgrass Species | lbs Cutless 50W/A | oz. Cutless 50W/A | Primo MAXX® (Trinexapac-ethyl) | Treatment Interval |
|--|-------------------|-------------------|--------------------------------|--------------------|
| Cool Season Turfgrasses | | | | |
| Bentgrass† (golf course fairway) | 0.125 - 0.50 | 2 - 8 | ½ labeled use rate | 2 to 6 weeks |
| Kentucky Bluegrass/ Perennial Ryegrass | 0.25 - 0.50 | 4 - 8 | ½ labeled use rate | 3 to 6 weeks |
| Warm Season Turfgrasses | | | | |
| Seashore Paspalum | 0.25 - 0.50 | 4 - 8 | ½ labeled use rate | 3 to 6 weeks |
| Tifway, TifSport, and GN-1 Bermudagrass†† | 0.125 - 0.50 | 2 - 8 | ½ labeled use rate | 3 to 6 weeks |
| Zoysiagrass | 0.25 to 0.50 | 4 to 8 | ½ labeled use rate | 3 to 6 weeks |

† Not for use on bentgrass putting greens.

†† Do not use on bermudagrass putting greens.

POA ANNUA (ANNUAL BLUEGRASS) CONVERSION TO PERENNIAL TURFGRASSES

➤ Multiple Application Program

A multiple application perennial grass conversion program using Cutless 50W provides *Poa annua* suppression and cool season turf conversion. This program provides a gradual perennial grass conversion reducing *Poa annua* populations over one to several growing seasons. To maximize seedling establishment, do not apply Cutless 50W two (2) weeks prior to and/or 2 weeks after interseeding or overseeding of perennial turfgrasses.

- **Bentgrass (Golf Course Fairway type turf)**

Apply Cutless 50W to fairway height bentgrass at a rate of 0.5 to 1.0 lb/acre in early spring following resumption of active growth of the grass. Repeat applications of 0.25 to 1.0 lb/acre of Cutless 50W should be made at 2 to 6 week intervals until late summer or early fall. Normal management practices such as fertilization, aeration and interseeding/overseeding will encourage growth of bentgrass.

- **Bentgrass Putting Greens**

Because annual turfgrass species such as *Poa annua* are more strongly regulated by Cutless 50W, careful use of Cutless 50W on putting greens with a high percentage of *Poa annua* can shift the competitive balance between bentgrass and *Poa annua* to favor bentgrass. Follow normal management practices such as fertilization, aeration and interseeding/overseeding that encourages growth of bentgrass. Use of Cutless

50W on bentgrass greens may increase putting speed without reducing the height of cut.

- **Bentgrass Greens with less than 50% *Poa annua* (annual bluegrass):** Apply Cutless 50W to bentgrass as part of an overall greens management program. An initial application of Cutless 50W should be made in the spring months after bentgrass greens are growing vigorously and have been mowed 3 or 4 times. Apply Cutless 50W at a rate of 0.25 to 0.5 lb/acre (0.1 to 0.2 oz/1,000 ft²). Repeat applications of 0.25 to 0.5 lb/acre (0.1 to 0.2 oz/1000 ft²) of Cutless 50W should be made at 2 to 4 week intervals through early fall.
- **Bentgrass Greens with more than 50% *Poa annua* (annual bluegrass):** Apply Cutless 50W to bentgrass greens at a rate of 0.25 lb/acre (0.1 oz/1000 ft²) in the spring months after bentgrass greens are growing vigorously and have been mowed 3 or 4 times. Repeat applications of 0.25 to 0.5 lb/acre (0.1 to 0.2 oz/1,000 ft²) of Cutless 50W should be made at 2 to 4 week intervals through early fall.
- **Kentucky bluegrass, Perennial ryegrass**

Apply Cutless 50W to Kentucky bluegrass and perennial ryegrass at a rate of 0.75 to 1.0 lb/acre in early spring following resumption of active growth of the grass. Repeat applications of 0.5 to 1.0 lb/acre of Cutless 50W should be made at 3 to 6 week intervals until late summer or early fall. Normal management practices such as fertilization, aeration and interseeding/overseeding will encourage growth of bluegrass and/or ryegrass.

| Rate Ranges for <i>Poa annua</i> (Annual Bluegrass) Conversion to Perennial Turfgrasses with Cutless 50W Using a Multiple Application Program | | | | | | |
|---|--------------------|----------------------------|-------------------|----------------------------------|-------------------|--------------------|
| Turfgrass Species | % <i>Poa annua</i> | Initial spring application | | Repeat applications [†] | | |
| | | lbs Cutless 50W/A | oz. Cutless 50W/A | lbs Cutless 50W/A | oz. Cutless 50W/A | Treatment interval |
| Bentgrass (golf course fairway) | 0 - 80% | 0.5 - 1.0 | 8 - 16 | 0.25 - 1.0 | 4 - 16 | 2 to 6 weeks |
| Bentgrass Putting Greens | < 50% | 0.25 - 0.5 | 4 - 8 | 0.25 - 0.5 | 4 - 8 | 2 to 4 weeks |
| Bentgrass Putting Greens | > 50% | 0.25 | 4 | 0.25 - 0.5 | 4 - 8 | 2 to 4 weeks |
| Kentucky Bluegrass/ Perennial Ryegrass Fairways | 0-80% | 0.75 - 1.0 | 12 - 16 | 0.5 - 1.0 | 8 - 16 | 3 to 6 weeks |

[†] Apply in early spring following resumption of active growth of the grass. Fall applications should be discontinued 4 weeks before the onset of inactive grass growth or winter dormancy.

➤ Alternative Spring/Fall Application Program

The alternative spring/fall application program selectively suppresses *Poa annua* growth in perennial turfgrass species. Injury or discoloration of *Poa annua* is expected within 7 to 10

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days of application. Cultural practices such as fertilization, aeration and interseeding/overseeding should be performed in conjunction with Cutless 50W applications to encourage growth of the perennial turfgrass species.

- **Bentgrass or Kentucky bluegrass/perennial ryegrass fairways with less than 50% *Poa annua* (annual bluegrass):** An alternative spring/fall treatment program for management of *Poa annua* in fairways containing less than 50% *Poa annua* is to apply 1.5 lb/acre of Cutless 50W following resumption of active bentgrass or Kentucky bluegrass/perennial ryegrass growth in the spring. A second application of 1.0 lb/acre of Cutless 50W should be made in the early fall. Interseed/overseed with bentgrass or Kentucky bluegrass/perennial ryegrass 3 to 4 weeks following early fall application.
- **Bentgrass or Kentucky bluegrass/perennial ryegrass fairways with more than 50% *Poa annua* (annual bluegrass):** Apply Cutless 50W at a rate of 1.0 to 1.5 lb/acre in late summer or early fall. Interseed/overseed with bentgrass or Kentucky bluegrass/perennial ryegrass 3 to 4 weeks following late summer or early fall application. Apply an additional 1.0 lb/acre of Cutless 50W the following spring after resumption of active growth of bentgrass or Kentucky bluegrass/perennial ryegrass.

| Rate Ranges for <i>Poa annua</i> (Annual Bluegrass) Conversion to Perennial Turfgrasses with Cutless 50W Using an Alternative Spring/Fall Application Program | | | |
|---|--------------------|---|--|
| Turfgrass Species | % <i>Poa annua</i> | Spring/Fall application† (lbs Cutless 50W/A) | Spring/Fall application† (oz. Cutless 50W/A) |
| Bentgrass or Kentucky bluegrass/perennial ryegrass fairways | < 50% | 1.5 in spring; 1.0 in fall | 24 in spring; 16 in fall |
| | > 50% | 1.0 to 1.5 in late summer or early fall; 1.0 the following spring | 16 to 24 in late summer or early fall; 16 the following spring |

† Apply in early spring following resumption of active growth of the grass. Fall applications should be discontinued 4 weeks before the onset of inactive grass growth or winter dormancy.

DOLLAR SPOT (*SCLEROTINIA HOMEOCARPA*) SUPPRESSION BY CUTLESS 50W IN CREEPING BENTGRASS

The active ingredient in Cutless 50W is from the pyrimidine class of chemistry which is structurally similar to pyrimidine fungicides that provide Dollar Spot control. Programmed applications of Cutless 50W for turf growth suppression or *Poa annua* conversion have also been shown to suppress Dollar Spot incidence in creeping bentgrass fairways, greens and tees. Research results have shown Cutless 50W applications at labeled rates and application intervals can significantly reduce Dollar Spot incidence and populations when compared to untreated control plots. Cutless 50W should not be used to replace labeled fungicides for the control of Dollar Spot; rather programmed use of Cutless 50W may result in longer or improved control of Dollar Spot in conjunction with conventional fungicides, or delays in the appearance of Dollar Spot disease, thus leading to the potential for an overall reduction in annual fungicide use.

EDGING AND BANDING APPLICATIONS FOR GROWTH REGULATION OF PERENNIAL TURFGRASS SPECIES

Cutless 50W can be applied to turfgrass in edging and banding applications along the perimeter of lawns, landscape beds, sidewalks, curbs, parking lots, driveways, posts, mailboxes, building structures, gravestones, and fences. Cutless 50W should be applied in a 6 inch band width with a single nozzle sprayer. Repeat at 8 to 12 week intervals or as needed for turf growth regulation.

| Cutless 50W Edging/Banding Rates for Growth Regulation of Perennial Turfgrass | | |
|---|-------------------|------------------|
| Turfgrass Species | lbs Cutless 50W/A | oz Cutless 50W/A |
| Cool Season Turfgrasses | | |
| Bentgrass | 1.00 - 2.00 | 16 - 32 |
| Kentucky Bluegrass | 1.50 - 3.00 | 24 - 48 |
| Perennial Ryegrass | 1.50 - 3.00 | 24 - 48 |
| Tall Fescue | 1.50 - 3.00 | 24 - 48 |
| Warm Season Turfgrasses | | |
| 328 Hybrid Bermudagrass | 0.75 - 1.00 | 12 - 16 |
| 419 Hybrid Bermudagrass | 1.00 - 2.00 | 16 - 32 |
| Common Bermudagrass | 1.50 - 3.00 | 24 - 48 |
| Seashore Paspalum | 1.00 - 2.00 | 16 - 32 |
| St. Augustinegrass | 1.00 - 2.00 | 16 - 32 |
| Zoysiagrass | 1.00 - 2.00 | 16 - 32 |

Backpack Sprayer Dosage Chart

For use of Cutless 50W as an edging/banding application in backpack sprayers having tank capacity of 3 to 5 gallons and calibrated to deliver 20 to 40 gallons per acre, use Table 6 to determine ounces of Cutless 50W required to achieve desired rate (see Table 6) of Cutless 50W per acre. Use Edging/Banding Rates Table (Table 5) to select Cutless 50W rate for desired turfgrass species.

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| Backpack Sprayer Dosage Directions | | | | |
|------------------------------------|--------------------------|---------------------|--|-------------------|
| Backpack tank capacity (gallons) | Spray volume (gallons/A) | Linear ft treated † | oz. Cutless 50W added to backpack spray tank | Ibs Cutless 50W/A |
| 3 | 20 | 13,068 | 2 oz | 0.85 |
| | 30 | 8,712 | | 1.25 |
| | 40 | 6,534 | | 1.65 |
| | 20 | 13,068 | 4 oz | 1.65 |
| | 30 | 8,712 | | 2.50 |
| | | | | |
| 4 | 20 | 17,424 | 2 oz | 0.65 |
| | 30 | 11,616 | | 0.95 |
| | 40 | 8,712 | | 1.25 |
| | 20 | 17,424 | 4 oz | 1.25 |
| | 30 | 11,616 | | 1.90 |
| | 40 | 8,712 | | 2.50 |
| 5 | 20 | 21,780 | 2 oz | 0.50 |
| | 30 | 14,520 | | 0.75 |
| | 40 | 10,890 | | 1.00 |
| | 20 | 21,780 | 4 oz | 1.00 |
| | 30 | 14,520 | | 1.50 |
| | 40 | 10,890 | | 2.00 |

† Assuming band of spray application is 6-inches wide.

STORAGE AND DISPOSAL

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

Pesticide Storage: Store in original container only. In case of spill, contain material and dispose as waste.

Pesticide Disposal: Excess pesticide should be used according to label directions or disposed of at an approved waste disposal facility.

Nonrefillable Container Disposal (non-rigid, any size):

(Fiber Carton/Drum and Foil Overpack): Do not reuse or refill this container. Offer for recycling if available. If recycling not available for fiber carton/drum, then dispose of both foil overpack and drum/carton in a sanitary landfill or incinerator, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

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