



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

FEB 17 1994

File

Merlyn L. Jones
DOWELANCO
9330 Zionsville Road
Indianapolis, IN 46268

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

SUBJECT: Label Amendment Submission of 08/17/93 in Response to PR Notice 93-7
EPA Reg. No. 62719-155
CUTLESS 50W TURF PLANT GROWTH REGULATOR

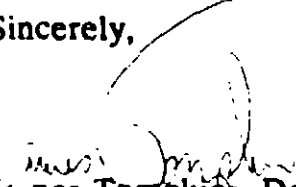
Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, successfully **REMOVES THE PRODUCT FROM THE SCOPE** of PR Notice 93-7 once the comments (if any) on the attached sheet are addressed. Other than the alterations (if any) listed on the attached sheet, no further alterations to the labeling are necessary to reflect the requirements of the Worker Protection Standard.

Since your amendment proposes to delete uses directly and/or to delete uses implicitly through the use of exclusionary statements, the Agency will publish in the Federal Register a notice of receipt of your amendment to delete uses, as required by section 6(f)(1) of FIFRA. The Agency will defer action for 90 days from the date of the Federal Register notice to give affected minor users an opportunity to try to persuade you to retain the uses(s). When the comment period has expired, the Agency will approve the amendment unless you have withdrawn it, and stamp the amended labeling "accepted." Your stamped-accepted labeling will then be sent to you.

As described in Supplement A of PR Notice 93-11 (self-verification option), you may sell and distribute product bearing the submitted labeling before you receive a copy of your stamped-accepted labeling. Note that your registration is not amended until the comment period required by section 6(f)(1) of FIFRA has expired and the Agency has approved the amendment. Therefore, you may withdraw your proposed amendment at any time during the comment period and until you receive your stamped-accepted labeling.

Sincerely,


James Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)



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contains at least 50% recycled fiber

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division

Merlyn L Jones
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9330 ZIONSVILLE RD
INDIANAPOLIS IN 46268

Subject: Label Amendment Submission of 08/17/93
in Compliance with the PR Notice 93-7
EPA Reg Nr. 62719-155
CUTLESS 50W TURF PLANT GROWTH REGULATOR

Modify the exclusionary statement to conform to the EPA-
approved language specified in PRN 93-11.

WPS Revisions: Added a statement to the General Use Precautions section of the label to remove this product from the scope of the Worker Protections Standard.
EPA text dated July, 1992, via notification.
(Editor's Note: Added text underlined, deleted text shown with strike through.)

(Label Booklet)

(logo) DowElanco

Cutless* 50W

Turf Growth Regulator

For improving the quality of cool and warm season turfgrasses

Active ingredient:

flurprimidol: α -(1-methylethyl)- α -[4-(trifluoromethoxy) phenyl]-5-pyrimidinemethanol 50%

Inert ingredients 50%

Total 100%

Contains 0.5 pound active ingredient per pound.

EPA Reg. No. 62719-155

*Trademark of DowElanco

DowElanco • Indianapolis, IN 46268, U.S.A.

Specialty Turf Growth Regulator

ACCEPTED
with COMMENTS
In EPA Letter Dated

FEB 17 1993

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

62719-155

(Page 1 through end):

Precautionary Statements

Hazards to Humans and Domestic Animals

Keep Out of Reach of Children

CAUTION**PRECAUCION:**

Precaucion al usuario: Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

Harmful If Swallowed Or Inhaled - Causes Eye Irritation

Avoid breathing dust or spray mist and contact with eyes, skin or clothing. Use eye protection when handling this product. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

First Aid

If swallowed: Do not induce vomiting. Call a physician or Poison Control Center. If available, administer activated charcoal (6-8 heaping teaspoonfuls) with a large quantity of water. Do not give anything by mouth to an unconscious person. Immediately transport to a medical care facility and see a physician.

If in eyes: Flush eyes with plenty of water. Call a physician if irritation develops.

If on skin: Wash with plenty of soap and water. Get medical attention if irritation develops.

If inhaled: Remove individual to fresh air. If breathing difficulty occurs, get medical attention. If not breathing, provide cardiopulmonary resuscitation assistance (mouth-to-mouth) and get medical attention.

Environmental Hazards

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

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.

STORAGE AND DISPOSAL

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

Storage: Store in original container only. In case of leak or 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.

Container Disposal: Dispose of overpack in a sanitary landfill or incinerator, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

General Information

Cutless 50W Turf Growth Regulator reduces leaf blade and stem internode elongation in turfgrasses which results in a more compact growth form. Growth regulation results from suppression of gibberellin biosynthesis. Under normal growing conditions root growth and lateral expansion of turf are not affected.

Broadcast treatments should be applied only to medium to high quality, well-maintained turfgrass areas of relatively uniform species composition.

Turf containing significant amounts of coarse textured species such as tall fescue, orchardgrass, timothy, dallisgrass, etc., will respond unevenly to Cutless 50W treatment.

General Use Precautions

Do not apply to putting greens other than bentgrass.

Do not apply this product to sod farms, turfgrasses grown for seed, including plants or plant materials grown for sale or research purposes.

~~In Arizona: Not for use on sod farms.~~

Chemigation: Do not apply Cutless 50W through any type of irrigation system.

Use on Perennial Turfgrasses

Application Timing

In the spring, application should be made after resumption of active seasonal growth of turfgrass. The final application of the season should be timed to occur a minimum of 1 month before the onset of inactive grass growth or winter dormancy.

Irrigation

To maximize growth regulator activity, treated areas should receive 0.5 inch of rain or supplemental irrigation within 24 hours following application or 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 5 to 6 weeks. Treated areas should continue to receive management care designed to encourage the growth of a healthy vigorous turf.

Perennial Grass Conversion in Cool Season Turf

Applications of Cutless 50W followed by management practices which encourage vigorous growth of perennial turfgrasses reduce the *Poa annua* component while increasing the perennial grass component in cool season turf. *Poa annua* is sensitive to Cutless 50W treatment and is more strongly suppressed than most perennial cool season species. Discoloration of *Poa annua* can be expected from treatments of Cutless 50W which provide a desired level of growth regulation of perennial grasses. This effect will become visible 7 to 10 days after treatment and last 2 to 4 weeks. The degree of overall turf discoloration will be proportional to the *Poa annua* composition of the turf and the rate of Cutless 50W applied. Discoloration can be minimized by application of low rates of Cutless 50W at 3 to 6 week intervals. Application of Cutless 50W in conjunction with soluble nitrogen fertilizers will also minimize discoloration. Application timing, rate recommendations, and precautions for perennial grass conversion are provided in the "Approved Uses" section of this label.

Application Directions

Add Cutless 50W water soluble packets to a half-full spray tank. 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 spray application. Cutless 50W should be applied using a boom-type sprayer with bypass or mechanical agitation calibrated to deliver 50 to 200 gallons/acre of spray solution (1 to 5 gallons/1000 sq ft). 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 to allow the applicator to make uniform application and avoid skips and overlaps.

Approved Uses

Cutless 50W Rate Recommendations for Growth Reduction of Perennial Turfgrass Species

Cool Season Turfgrasses

Bentgrass (Golf Course Fairways)

Multiple application program: Apply Cutless 50W to fairway height bentgrass at a rate of 0.5 to 0.75 lb/acre in early spring following resumption of active growth. Repeat applications of 0.25 to 0.5 lb/acre of Cutless 50W should be made at 3 to 6 week intervals until late summer or early fall. Do not exceed a total of 6 lb/acre of Cutless 50W during a single growing season.

Alternative spring/fall treatment program: For growth regulation of bentgrass, make a single application of 1.5 to 2.0 lb/acre of Cutless 50W following the second mowing of the season and make a second application in late summer or early fall. This program is not recommended unless significant discoloration of *Poa annua* can be tolerated.

Kentucky Bluegrass and Perennial Ryegrass

Multiple application program: Apply Cutless 50W to Kentucky bluegrass and perennial ryegrass at a rate of 0.75 lb/acre of Cutless 50W in early spring following resumption of active growth. Repeat applications of 0.5 to 0.75 lb/acre of Cutless 50W should be made at 3 to 6 week intervals until late summer or early fall. Do not exceed a total of 6 lb/acre of Cutless 50W during a single growing season.

Alternative spring/fall treatment program: For growth regulation of Kentucky bluegrass or perennial ryegrass, make a single application of 2.0 to 3.0 lb/acre of Cutless 50W following the second mowing of the season and make a second application made in late summer or early fall.

Warm Season Grasses

Tifway Bermudagrass (419)

Multiple application program: Apply Cutless 50W to Tifway bermudagrass at a rate of 0.5 to 1.0 lb/acre when bermudagrass has completely recovered from winter dormancy and is growing vigorously. 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. Do not exceed a total of 6 lb/acre of Cutless 50W during a single growing season.

Alternative spring/fall treatment program: For growth regulation of Tifway bermudagrass, make a single application of 1.0 to 1.5 lb/acre of Cutless 50W when bermudagrass has completely recovered from winter dormancy and is growing vigorously and make a second application in late summer or early fall.

Tifgreen Hybrid Bermudagrass (328)

Multiple application program: Apply Cutless 50W to Tifgreen bermudagrass at a rate of 0.25 to 0.5 lb/acre when bermudagrass has completely recovered from winter dormancy and is growing vigorously. Repeat applications of 0.25 to 0.5 lb/acre of Cutless 50W should be made at 3 to 6 week intervals until late summer or early fall. Do not exceed a total of 6 lb/acre of Cutless 50W during a single growing season.

Alternative spring/fall treatment program: For growth regulation of Tifgreen bermudagrass, make a single application of 0.75 to 1.0 lb/acre of Cutless 50W when bermudagrass has completely recovered from winter dormancy and is growing vigorously and make a second application in late summer or early fall.

St. Augustinegrass

Multiple application program: Apply Cutless 50W to St. Augustinegrass at a rate of 0.75 lb/acre when St. Augustinegrass has completely recovered from winter dormancy and is growing vigorously. Repeat applications of 0.5 lb/acre of Cutless 50W should be made at 4 to 6 week intervals until late summer or early fall.

Zoysiagrass

Apply Cutless 50W at a rate of 2.0 to 3.0 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 in zoysiagrass.

Perennial Grass Conversion In Cool Season Turf

Kentucky bluegrass, Perennial ryegrass

Multiple application program: Apply Cutless 50W to Kentucky bluegrass and perennial ryegrass at a rate of 0.75 lb/acre in early spring following resumption of active growth of the grass. Repeat applications of 0.5 to 0.75 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 overseeding will encourage growth of bluegrass and/or ryegrass. Overseeding should occur a minimum of 2 weeks following the last application of Cutless 50W for the season. Do not exceed a total of 6 lb/acre of Cutless 50W during a single growing season.

Bentgrass fairways

Multiple application program: Apply Cutless 50W to fairway height bentgrass at a rate of 0.5 to 0.75 lb/acre in early spring following resumption of active growth of the grass. Repeat applications of 0.25 to 0.5 lb/acre of Cutless should be made at 3 to 6 week intervals until late summer or early fall. Normal management practices such as fertilization, aeration and overseeding will encourage growth of bentgrass. Overseeding should occur a minimum of 2 weeks after the last application of Cutless 50W for the season. Do not exceed a total of 6 lb/acre of Cutless 50W during a single growing season.

Alternative program for bentgrass fairways with less than 50% *Poa annua*: 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 growth in the spring. A second application of 1.0 lb/acre of Cutless 50W should be made in the early fall. Normal management practices such as fertilization, aeration and overseeding will encourage growth of bentgrass. Overseeding should occur a minimum of 2 weeks after the last application of Cutless 50W for the season.

Alternative program for bentgrass fairways with more than 50% *Poa annua*: Apply Cutless 50W at a rate of 1.0 to 1.5 lb/acre in late summer or early fall. Overseed with bentgrass 2

weeks following application. Apply an additional 1.0 lb/acre of Cutless 50W the following spring after resumption of active growth or bentgrass.

Use on 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 overseeding which encourage growth of bentgrass. Do not overseed within 2 weeks following the final application of Cutless 50W in the season. Use of Cutless 50W on bentgrass greens can increase putting speed without reducing the height of cut.

Bentgrass Greens with Less than 50% *Poa annua*

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 0.25 to 0.5 lb/acre (0.1 to 0.2 oz/1000 sq ft). Repeat applications of 0.25 lb/acre of Cutless 50W (0.1 oz/1000 sq ft) of Cutless 50W should be made at 3 to 6 week intervals.

Bentgrass Greens with More than 50% *Poa annua*

Apply Cutless 50W to bentgrass greens at a rate of 0.25 lb/acre (0.1 oz/1000 sq ft) to bentgrass greens in mid-summer. Repeat applications of 0.25 lb/acre of Cutless 50W should be made at 3 to 6 week intervals through early fall.

WARRANTY DISCLAIMER

DowEanco warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. **DowEanco makes no other express or implied warranty of merchantability or fitness for a particular purpose or any other express or implied warranty.**

INHERENT RISKS OF USE

It is impossible to eliminate all risks associated with use of this product. Turf injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to the label instructions (including adverse conditions noted on the label such as unfavorable temperatures, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of DowEanco or the seller. All such risks shall be assumed by the buyer.

LIMITATION OF REMEDIES

The exclusive remedy for losses or damages resulting from the use of this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at DowEanco's election, one of the following:

- (1) Refund of purchase price paid by buyer or user for product bought, or
- (2) Replacement of amount of product used.

DowEanco shall not be liable for losses or damages resulting from handling or use of this product unless DowEanco is promptly notified of such loss or damage in writing. In no case shall DowEanco be liable for consequential or incidental damages or losses.

The terms of the Warranty Disclaimer above and this Limitation of Remedies cannot be varied by any written or verbal statements or agreements. No employee or sales agent of DowEanco or the seller is authorized to vary or exceed the terms of the Warranty Disclaimer or this Limitation of Remedies in any manner.

(Base Label)

(logo) DowElanco

Cutless* 50W

Turf Growth Regulator

For improving the quality of cool and warm season turfgrasses

Active Ingredient:

flurprimidol: α -(1-methylethyl)- α -[4-(trifluoromethoxy) phenyl]-5-pyrimidinemethanol

flurprimidol: α -(1-methylethyl)- α -[4-(trifluoromethoxy) phenyl]-5-pyrimidinemethanol	50%
Inert Ingredients	50%
Total	100%

Contains 0.5 pound active ingredient per pound.

Precautionary Statements

Hazards to Humans and Domestic Animals

Keep Out of Reach of Children

CAUTION

Harmful If Swallowed Or Inhaled - Causes Eye Irritation

Avoid breathing dust or spray mist and contact with eyes, skin or clothing. Use eye protection when handling this product. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

First Aid

If swallowed: Do not induce vomiting. Call a physician or Poison Control Center. If available, administer activated charcoal (6-8 heaping teaspoonfuls) with a large quantity of water. Do not give anything by mouth to an unconscious person. Immediately transport to a medical care facility and see a physician.

If in eyes: Flush eyes with plenty of water. Call a physician if irritation develops.

If on skin: Wash with plenty of soap and water. Get medical attention if irritation develops.

If inhaled: Remove individual to fresh air. If breathing difficulty occurs, get medical attention. If not breathing, provide cardiopulmonary resuscitation assistance (mouth-to-mouth) and get medical attention.

Environmental Hazards

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

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.

STORAGE AND DISPOSAL

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

Storage: Store in original container only. In case of leak or 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.

Container Disposal: Dispose of overpack in a sanitary landfill or incinerator, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Refer to attached label booklet for additional precautionary information and Directions for Use.

Notice: Read the entire label. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label booklet.

In case of emergency involving health or the environment involving this product, call collect 517-636-4400

Specialty chemical: Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-155

EPA Est. _____

*Trademark of DowElanco

DowElanco • Indianapolis, IN 46268, U.S.A.

Specialty Turf Growth Regulator
Net Weight _____

5/14/92 ..

Amendments:

- 1) Label reformatted to improve clarity and user friendliness.
- 2) Multiple low rate applications added to extend the period of growth regulation and reduce the potential for turf injury (maximum use rates remain the same).
- 3) Added previously approved supplemental labeling for use on bentgrass putting greens to main product label.