

52287-17

6/18/2004

10f18



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
1200 Pennsylvania Av., N.W.
Washington, D.C. 20004

NOTICE OF PESTICIDE:

☒ Registration
☐ Reregistration
(under FIFRA, as amended)

EPA Reg.
Number:

52287-17

Date of Issuance:

JUN 18 2004

Term of Issuance:

Conditional

Name of Pesticide Product:

Turf Fertilizer with Pendimethalin
0.75% Preemergent Weed Control

Name and Address of Registrant (include ZIP Code):

Robert F. Bischoff, Agent
Total Turf Consulting, LLC
P.O. Box 7928
Hilton Head Island, SC, 29938

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under ~~FIFRA section 4.~~
2. Within 18 months of the date of this registration, submit one-year storage stability and corrosion characteristics studies for review and acceptance. You may cite studies for a substantially similar product that has been accepted by the Agency.
3. Add on the front panel, "EPA Reg. No. 52287-17 and "EPA Est. No. 52287-XX-XX."
4. Make the following label changes before you release the product for shipment:

Signature of Approving Official:

Jim Tompkins
Product Manager (25), Herbicide Branch, Registration Division

Date:

6-18-04

Page 2

EPA Reg. No. 52287-18

a. Under "Directions for Use";

Remove "Keep children and pets out of treated area until dusts have settled," from "DO NOT APPLY this product through any irrigation system."

b. General Information";

Change "for hardwood and conifer regeneration on conservation reserve program land or similar areas" to "for hardwood and conifer regeneration on conservation reserve program land."

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of these products constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your record.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF PESTICIDE: x Registration

EPA Reg. Number: 52287-17

Term of Issuance: Conditional

Name of Pesticide Product: Turf Fertilizer with Pendimethalin 0.75 % Preemergent Weed Control

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

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2. Within 18 months of the date of this registration, submit one-year storage stability and corrosion characteristics studies for review and acceptance. You may cite studies for a substantially similar product that has been accepted by the Agency.
3. Add on the front panel, "EPA Reg. No. 52287-17 and "EPA Est. No. 52287-XX-XX."
4. Make the following label change before you release the product for shipment

a. Under "Directions for Use";

Remove "Keep children and pets out of treated area until dusts have settled," from "DO NOT APPLY this product through any irrigation system."

b. General Information";

Change "for hardwood and conifer regeneration on conservation reserve program land or similar areas" to "for hardwood and conifer regeneration on conservation reserve program land."

Submit one copy of your final printed labeling for the above products before you release these products for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of these products constitutes acceptance of these conditions. A stamped copy of each label is enclosed for your records.

CONCURRENCES

SYMBOL ▶	7505C	7505C					
SURNAME ▶	Bien	Tompkins					
DATE ▶	6-2-04						

40918

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JUN 21 2004

NOTICE OF PESTICIDE: x Registration

EPA Reg. Number: 52287-17

Term of Issuance: Conditional

Name of Pesticide Product: Turf Fertilizer with Pendimethalin 0.75 % Preemergent Weed Control

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- a. Under "Directions for Use";

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- b. General Information";

Change "for hardwood and conifer regeneration on conservation reserve program land or similar areas" to "for hardwood and conifer regeneration on conservation reserve program land."

Submit one copy of your final printed labeling for the above products before you release these products for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of these products constitutes acceptance of these conditions. A stamped copy of each label is enclosed for your records.

CONCURRENCES								
SYMBOL	7505C	7505C						
SURNAME	Bien	Tompson						
DATE	6-2-04							

EPA Form 1320-1 (12-70)

OFFICIAL FILE COPY

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20040412.Proposed Label



TURF FERTILIZER WITH PENDIMETHALIN 0.75
Preemergent Weed Control

**FOR USE ON TURFGRASSES AND
ESTABLISHED ORNAMENTALS IN THE LANDSCAPE**

ACTIVE INGREDIENT:

pendimethalin, N-(1-ethylpropyl)-3,4-dimethyl-2, 6-dinitrobenzenamine 0.75%
INERT INGREDIENTS..... 99.25%
TOTAL 100.00%

EPA Reg. No. 52287-

EPA Est. No. 52287-FL-1

GUARANTEED FERTILIZER ANALYSIS

Total Nitrogen (N).....Variable %
Available Phosphoric Acid (P2O5).....Variable %
Soluble Potash (K2O).....Variable %

Ingredients: Ureaformaldehyde, Urea, Sulfur Coated Urea, Ammonium Phosphate, Muriate of Potash

KEEP OUT OF REACH OF CHILDREN
CAUTION
PRECAUCION!

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.)

Have the product container or label with you when calling a poison control center or doctor, or for going for treatment.

In case of emergency endangering life or property involving this product,
call day or night 1-800-424-9300.

See Inside Leaflet For Additional Precautionary Statements and Directions For Use.

ACCEPTED
with COMMENTS
in EPA Letter Dated

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

52287-17

JUN 18 2004

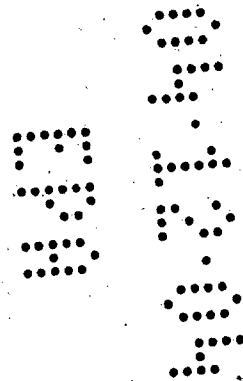


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FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have a person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If on skin or clothing	<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 in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lense, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for advice.
If inhaled	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. • Call a poison control center or doctor for advice.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact CHEMTREC 1-800-424-9300 for emergency medical treatment information.	

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed or absorbed through skin. Causes eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing mist. Avoid breathing dust.

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
- Chemical resistant gloves, made of waterproof materials, such as butyl rubber >14 mils, nitrile rubber >14 mils, or neoprene rubber >14 mils
- Shoes plus socks
- Protective eyewear

20040412.Proposed Label

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, 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 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.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. DO NOT apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. 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.

This labeling must be in the possession of the user at time of pesticide application.

Harrell's Inc. does not recommend or authorize the use of this product in manufacturing, processing or preparing custom blends with other products for application to turf or ornamentals.

DO NOT APPLY TURF FERTILIZER WITH PENDIMETHALIN 0.75 in greenhouses, shadehouses or other enclosed structures.

NOT FOR USE on for commercial seed production.

DO NOT APPLY this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

NO NOT APPLY this product through any irrigation system. Keep children and pets out of treated area until dusts have settled.

DO NOT ALLOW dust to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, nontarget crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Chemical resistant gloves, made of waterproof materials, such as butyl rubber >14 mils, nitrile rubber >14 mils, or neoprene rubber >14 mils.
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Do not enter or allow others to enter the treated area until dusts have settled.

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, OR RESIDUES.

STORAGE AND DISPOSAL

PESTICIDE STORAGE:

DO NOT store above 120°F. Store in original containers and keep closed. Store in a cool, dry place.

DO NOT contaminate water, food, or feed by storage or disposal.

PESTICIDE DISPOSAL:

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

20040412. Proposed Label

CONTAINER

DISPOSAL: Completely empty bag into application equipment. Dispose of empty bag in a sanitary landfill or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Observe all cautions and limitations on this label and the labels of products used in combination with TURF FERTILIZER WITH PENDIMETHALIN 0.75. The use of TURF FERTILIZER WITH PENDIMETHALIN 0.75 not consistent with this label can result in injury to crops, animals, or persons. Keep containers closed to avoid spills and contamination.

DISCLAIMER

The label instructions for use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the use or application of the product contrary to label instructions, all of which are beyond the control of Harrell's Inc. All such risks shall be assumed by the user.

Harrell's Inc. warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risk referred to above.

Any damages arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or values or any other special or indirect damages.

Harrell's Inc. makes no other express or implied warranty, including other express or implied warranty of FITNESS or of MERCHANTABILITY.

GENERAL INFORMATION

TURF FERTILIZER WITH PENDIMETHALIN 0.75 is a combination preemergent herbicide and fertilizer formulated to provide control of most annual grasses and certain broadleaf weeds found in any turfgrass site (lawns, sod, turf areas). Examples of such sites include, but are not limited to: golf courses, lawns in residential, commercial establishments, or grounds around military or other institutions, parks, airports, roadsides, schools or cemeteries; athletic fields or recreational areas; prairiegrass areas; and sod farms. TURF FERTILIZER WITH PENDIMETHALIN 0.75 can be used around established ornamentals in the landscape and in established wildflower plantings. TURF FERTILIZER WITH PENDIMETHALIN 0.75 may be used for hardwood and conifer regeneration on conservation reserve program land or similar areas.

TURF FERTILIZER WITH PENDIMETHALIN 0.75 is labeled for use on the following turfgrass species: Kentucky bluegrass, perennial ryegrass, fine fescue, tall fescue, bentgrass, Poa annua (except putting greens and tees), bermudagrass, St. Augustinegrass, bahiagrass, centipedegrass, zoysiagrass and blends of these grasses.

TURF FERTILIZER WITH PENDIMETHALIN 0.75 controls weeds as they germinate, but will not control established weeds. Therefore, areas to be treated should be free of established weeds. Unusually cold, excessively wet, or hot and dry conditions that delay germination or extend germination over a long period of time can reduce weed control.

APPLICATION INSTRUCTIONS

Apply product uniformly at the recommended rate using a properly calibrated spreader. The efficacy of TURF FERTILIZER WITH PENDIMETHALIN 0.75 will be improved if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. This will remove the product from the turfgrass foliage and establish a preemergent herbicide barrier in the soil. If TURF FERTILIZER WITH PENDIMETHALIN 0.75 is not activated by rainfall or irrigation within 30 days, erratic weed control may result.

Avoid contact of product with porous surfaces such as driveways, stone, or wood. Removing particles will help prevent staining.

TURF FERTILIZER WITH PENDIMETHALIN 0.75 can be applied before or after postemergence herbicides used to control emerged weeds in turfgrasses. For annual grass control, applications can be made with Vantage[®] 1, Acclaim Extra[®] 2, or MSMA containing products, to control emerged weeds. Broadleaf weeds can be controlled using Trimec[™] 3 Three-Way[™] 4, 2-4-D, and other similar products.

Applied according to label directions, and under normal growing conditions, TURF FERTILIZER WITH PENDIMETHALIN 0.75 will not cause injury to desirable plants. Over-application can result in stand loss, plant injury, or soil residues. Uneven application can decrease weed control or cause plant injury.

Seedling diseases, cold weather, excessive moisture, high soil pH, high soil salt concentration, or drought can weaken seedlings and plants, and increase the possibility of plant damage from TURF FERTILIZER WITH PENDIMETHALIN 0.75.

Apply product uniformly using a properly calibrated spreader to provide uniform distribution. Check application routinely to determine proper calibration. Avoid overlaps that will increase rates above those recommended.

Avoid application when winds may cause drift.

200 lbs. treats 1 acre delivering 1.5 lb. ai/A

Recommended Rates:

Spreader	Ground Speed	Spreading Width	lbs. per acre		
			152	227	303
LESCO Rotary	3 mph	9 ft.	C 1/2	D 1/2	E 1/2
			10"/32	12"/32	14"/32
Scotts R-7, R-7x	3 mph	12 ft.	F	I	K
Scotts R-8, R-8a	3 mph	11 ft.	J	L 1/2	N
¹ Lely	4.5 mph	30 ft.	4 1/4 III	5 1/2 III	6 1/2 III
² Vicon	4.5 mph	30 ft.	21	25	29

¹ Models WTR, WRF, HR, and 1250 PTO-450 rpm² Vicon - All models PTO-540 rpm

Important: Spreader settings are only approximate. Age, condition of spreader, and operator speed can cause wide variation in application rate. Spreader should be calibrated prior to each application by the operator.

WEED SPECIES CONTROLLED

TURF FERTILIZER WITH PENDIMETHALIN 0.75 is recommended for preemergence control of the weed species listed. Applications can be made around and over the top of the ornamentals and to the sites listed on this label.

GRASSES CONTROLLED

Common Name	Scientific Name
Barleygrass	<i>Echinochloa crus-galli</i>
Bluegrass, Annual	<i>Poa annua</i>
Crabgrass	<i>Digitaria</i> spp.
Crowfootgrass	<i>Dactyloctenium aegyptium</i>
Foxtail, Giant	<i>Setaria faberi</i>
Foxtail, Green	<i>Setaria viridis</i>
Foxtail, Yellow	<i>Setaria glauca</i>
Goosegrass	<i>Eleusine indica</i>
Itchgrass	<i>Rottboellia exaltata</i>
Johnsongrass (from seed)	<i>Sorghum halepense</i>
Junglerice	<i>Echinochloa colona</i>
Lovegrass (from seed)	<i>Eragrostis</i> spp.
Panicum, Browntop	<i>Panicum fasciculatum</i>
Panicum, Fall	<i>Panicum dichotomiflorum</i>
Panicum, Texas	<i>Panicum texanum</i>
Sandbur, Field	<i>Cenchrus incertus</i>
Signalgrass	<i>Brachiaria platyphylla</i>
Sprangletop, Mexican	<i>Leptochloa uninervia</i>
Sprangletop, Red	<i>Leptochloa filiformis</i>
Witchgrass	<i>Panicum capillare</i>
Woolly Cupgrass	<i>Eriochloa villosa</i>

BROADLEAF WEEDS CONTROLLED

Common Name	Scientific Name
Burweed, Lawn	<i>Soliva pterosperma</i>
Carpetweed	<i>Mollugo verticillata</i>
Chickweed, Common	<i>Stellaria media</i>
Chickweed, Mouseear	<i>Cerastium vulgatum</i>
Clover, Hop	<i>Trifolium procumbens</i>
Cudweed	<i>Gnaphalium</i> spp.
Eveningprimrose	<i>Oenothera biennis</i>
Fiddleneck	<i>Amsinckia intermedia</i>
Filaree	<i>Erodium</i> spp.
Henbit	<i>Lamium amplexicaule</i>
Knotweed, prostrate	<i>Polygonum aviculare</i>
Kochia	<i>Kochia scoparia</i>
Lambsquarters	<i>Chenopodium album</i>
Pigweed	<i>Amaranthus</i> spp.
Puncturevine	<i>Tribulus terrestris</i>
Purslane	<i>Portulaca oleracea</i>
Pusley, Florida	<i>Richardia scabra</i>

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20040412. Proposed Label

Rocket, London
Shepherdspurse
Smartweed, Pennsylvania
Speedwell, Corn
Spurge, Annual
Spurge, Prostrate
Woodsorrel, Yellow
Velvetleaf (Buttonweed)

Sisymbrium irio
Capsella bursa-pastoris
Polygonum pensylvanicum
Veronica arvensis
Euphorbia spp.
Euphorbia numistrata
Oxalis stricta
Abutilon theophrasti

APPLICATION RATES FOR TURF WEED CONTROL¹

Turfgrass Species	Weeds	Rates of Turf Fertilizer With Pendimethalin 0.75	Comments
COOL SEASON GRASSES			
Bluegrass, Kentucky Fescue, fine Fescue, tall Ryegrass, perennial	crabgrass foxtail <i>Poa annua</i> barnyardgrass fall panicum oxalis prostrate spurge purslane knotweed evening primrose hop clover	200-266 lbs./acre as the initial application prior to weed germination in the spring.	Apply a repeat application of 133-200 lbs./acre after 5 - 8 weeks for extended control or where heavy weed infestations are expected.
	goosegrass	Residential² Turf Uses Only: 133-200 lbs./acre in the spring prior to weed germination. Golf Course and Commercial Turf Uses: 133-400 lbs./acre in the spring prior to weed germination.	Apply a repeat application of 133 lbs./acre after 5 - 8 weeks if the lower rates was used initially or for extended goosegrass control.
	cudweed <i>Poa annua</i> chickweed lawn burweed henbit corn speedwell	200-266 lbs./acre	Apply in late summer or early fall prior to weed germination.
Bentgrass or established <i>Poa annua</i> ⁴ (1/2 inch height or taller)	crabgrass foxtail <i>Poa annua</i> barnyardgrass fall panicum oxalis prostrate spurge purslane knotweed evening primrose hop clover	133 lbs./acre in the spring prior to weed germination.	Apply a repeat application of 133-200 lbs./acre after 5-8 weeks where heavy weed infestations are expected.
	goosegrass	266 lbs./acre in the spring prior to weed germination.	

Apply a repeat
application of
266 lbs./acre
after 5-8 weeks.

cudweed	133-266 lbs./acre	Apply in late
<i>Poa annua</i>		summer or early
chickweed		fall prior to
lawn burweed		weed germination.
henbit		
corn speedwell		

WARM SEASON GRASSES

Bahlagrass	Crabgrass	Residential¹ Turf Uses Only:	Apply a repeat application of
Bermudagrass	foxtail,	200-266 lbs./acre in the spring	133-200 lb./acre after 5-8 weeks
Buffalograss	<i>Poa annua</i>	prior to weed germination.	if necessary.
Centipedegrass	Barnyardgrass		
Fescue, tall	fall panicum	Golf Course and Commercial	
St. Augustinegrass	oxalis	Turf Uses: 200-400 lbs./acre in	
Zoysiagrass	prostrate spurge	the spring prior to weed	
	purslane	germination.	
	knotweed		
	evening primrose		
	hop clover		
	goosegrass	200 lbs./acre	An additional
		prior to weed	application of
		germination in	200 lbs./acre may
		the spring.	be applied for
		Apply a repeat	extended goosegrass
		application of	control 8 weeks
		200-266 lbs./acre	after the second
		after 5-8 weeks.	application.
	cudweed	200-266 lbs./acre	Apply in late
	<i>Poa annua</i>		summer or early
	chickweed		fall prior to
	lawn burweed		weed germination.
	henbit		
	corn speedwell		

¹ DO NOT exceed a maximum rate of 266 pounds per acre per application for use on residential turfgrass.

² Residential is defined as turf in any residential situation as well as schools, parks and playgrounds.

³ DO NOT exceed a maximum rate of 266 pounds per acre per application for use on sod farms.

⁴ Not for use on bentgrass or *Poa annua* greens or tees.

TURFGRASS PRECAUTIONS

Use on well established turfgrass with a dense and uniform stand. On newly planted areas, application should not be made until the turfgrass has filled in and has been mowed at least four times. On turf that has been thinned or damaged due to winter injury, excessive moisture, etc., allow for turf recovery prior to making an application.

Applications made to overseeded warm-season turfgrasses may cause thinning or injury of the overseeded species.

Do not use on bentgrass or *Poa annua* greens and tees or injury may occur.

Delay reseeding or winter overseeding of treated turfgrass for at least three (3) months following the last Pendimethalin application. Delay springing turfgrass for five (5) months after application.

INDUSTRIAL (UNIMPROVED) TURF

Industrial, or unimproved turf areas often have a different spectrum of weeds to be controlled than those found in fine turf as described elsewhere in this leaflet. TURF FERTILIZER WITH PENDIMETHALIN 0.75 will control annual grasses and broadleaf weeds mentioned in that section of this label as well as the following weeds that might germinate in established grasses in rights-of-way, roadsides, construction sites, parks, substations, lots, or similar areas:

20040412. Proposed Label

Crowfootgrass, Itchgrass, Johnsongrass (from seed), Junglerice, Lovegrass (from seed), Browntop Panicum, Texas Panicum, Field Sandbur, Signalgrass, Mexican Sprangletop, Red Sprangletop, Witchgrass, Woolly Cupgrass, Carpetweed, Fiddleneck, Filaree, Kochia, Lambsquarters, Pigweed, Puncturevine, Florida Pusley, London Rocket, Shepherdspurse, Pennsylvania Smartweed, Annual Spurge, and Velvetleaf.

Apply before weeds germinate. A postemergence herbicide such as 2,4-D, MCPA, MSMA, or similar product is recommended to control established weeds.

LANDSCAPE AND GROUNDS MAINTENANCE

TURF FERTILIZER WITH PENDIMETHALIN 0.75 can be incorporated into landscape and grounds maintenance programs to provide extended preemergence control of most annual grasses and certain broadleaf weeds. Areas to be treated include but are limited to established trees or ornamentals in the landscape or in mulch beds; or, other commercially maintained landscape areas such as borders, around statuary or monuments in parks or in parking areas. If emerged weeds are present at time of application either shallow cultivate to destroy existing weeds or, where practical, remove by hand, or apply a postemergence product labeled for such use prior to an application of TURF FERTILIZER WITH PENDIMETHALIN 0.75. TURF FERTILIZER WITH PENDIMETHALIN 0.75 may be used before or after applications of herbicides registered for postemergence use (i.e. Vantage®, Roundup PRO®⁵ or Finale®⁶) for the control of established weeds. Do not apply sprays containing Roundup or Finale over the top of desirable plants, and follow the label restrictions. A TURF FERTILIZER WITH PENDIMETHALIN 0.75 treatment may be followed by any registered herbicide to control weeds not listed on the TURF FERTILIZER WITH PENDIMETHALIN 0.75 label.

ORNAMENTAL BULBS

TURF FERTILIZER WITH PENDIMETHALIN 0.75 may be applied for control of susceptible annual weeds in ornamental bulbs listed on the label (crocus, daffodil (narcissus), gladiolus, tulip, etc.). Apply TURF FERTILIZER WITH PENDIMETHALIN 0.75 prior to, during or after bulb emergence. If weeds have already germinated use a labeled postemergence herbicide to control emerged weeds.

WILDFLOWERS

TURF FERTILIZER WITH PENDIMETHALIN 0.75 herbicide may be applied for control of susceptible annual weeds in plantings of wildflowers listed on the label (Black-eyed Susan, California Poppy, Coreopsis, Oxeye Daisy, etc.). TURF FERTILIZER WITH PENDIMETHALIN 0.75 may be applied to established perennial wildflowers before emergence of weeds or wildflowers. For wildflowers being established from seed, apply TURF FERTILIZER WITH PENDIMETHALIN 0.75 after wildflowers have emerged but prior to weed germination. If weeds have already germinated, use a labeled postemergence product to control emerged weeds.

Due to the diversity of species and varieties which exist in areas where wildflowers are grown, the response to TURF FERTILIZER WITH PENDIMETHALIN 0.75 may vary greatly. Careful testing on desirable species is recommended to determine if area-wide applications can be made.

ORNAMENTAL PRECAUTIONS

Apply TURF FERTILIZER WITH PENDIMETHALIN 0.75 to established plantings. Care must be taken that soil or planting mixes have settled firmly following transplanting and that there are no cracks that would allow direct contact of TURF FERTILIZER WITH PENDIMETHALIN 0.75 with roots. Applications where soil and media surfaces are uniformly covered will result in best weed control and ornamental tolerance. Plant only those desirable plant species listed on this label into soil treated the previous season with any Pendimethalin product or injury may occur.

RECOMMENDED ORNAMENTAL SPECIES

TURF FERTILIZER WITH PENDIMETHALIN 0.75 is safe around and over the top of the established plants listed below.

TREES

<u>Common Name</u>
Alder, European Black
Apple
Arborvitae, American
Arbutus
Ash, Red
Ash, White
Aspen, Bigtooth
Aspen, Quaking
Basswood
Birch, European Weeping
Birch, River
Buckeye, Red
Cedar, White
Chamaecyparis, Boulevard
Cherry, Black
Cherry, Choke
Cherry, Kwanzan
Cherry, Nanking
Cottonwood
Crabapple

<u>Scientific Name</u>
<i>Alnus glutinosa</i>
<i>Malus spp.</i>
<i>Thuja occidentalis</i>
<i>Arbutus spp.</i>
<i>Fraxinus pennsylvanica</i>
<i>Fraxinus americana</i>
<i>Populus grandidentata</i>
<i>Populus tremuloides</i>
<i>Tilia spp.</i>
<i>Betula pendula</i>
<i>Betula nigra</i>
<i>Aesculus pavia</i>
<i>Thuja occidentalis</i>
<i>Chamaecyparis pisifera</i>
<i>Prunus serotina</i>
<i>Prunus virginiana</i>
<i>Prunus serrulata</i>
<i>Prunus tomentosa</i>
<i>Populus deltoides</i>
<i>Malus spp.</i>

20040412.Proposed Label

Crepe Myrtle
 Cryptomeria, Japanese Cedar
 Cypress, Bald
 Cypress, Leyland
 Dogwood, Flowering
 Dogwood, Korean
 Dogwood, Silky
 Dogwood, Shrub
 Elm
 Fir, Balsam
 Fir, Douglas
 Fir, Fraser
 Fir, White
 Franklinia
 Ginkgo
 Gum, Black
 Gum, Sour
 Haw, Black
 Hawthorn
 Hemlock, Canada
 Hemlock, Eastern
 Holly, American
 Honeylocust
 Lilac, Common
 Lilac, Japanese Tree
 Linden
 Magnolia, Saucer
 Magnolia, Southern
 Magnolia, Star
 Maidenhair Tree
 Maple, Paper-bark
 Maple, Norway
 Maple, Japanese
 Maple, Red
 Maple, Sugar
 Nannyberry, Rusty
 Oak, Chinquapin
 Oak, Live
 Oak, Pin
 Oak, Red
 Oak, Swamp Chestnut
 Oak, Water
 Oak, White
 Oak, Willow
 Olive
 Palm, Date
 Palm, Fan
 Palm, Pindo
 Palm, Washington
 Peach
 Pear, Bradford
 Pecan
 Pine, Austrian
 Pine, Italian Stone
 Pine, Loblolly
 Pine, Monterey
 Pine, Red
 Pine, Scotch
 Pine, Virginia
 Pine, White
 Plum, Purple Leaf
 Poplar, Black
 Redcedar, Eastern
 Redcedar, Western
 Red Ironbark
 Redwood, Dawn
 Sequoia, Giant
 Serviceberry
 Sourwood
 Spruce, Colorado Blue
 Spruce, Dwarf Alberta
 Spruce, Norway
 Spruce, White

Lagerstroemia indica
Cryptomeria japonica
Taxodium distichum
Cupressocyparis leylandii
Cornus florida
Cornus kousa
Cornus amomum
Cornus spp.
Ulmus japonica
Abies balsamiae
Pseudotsuga menziesii
Abies fraseri
Abies concolor
Franklinia spp.
Ginkgo biloba
Nyssa sylvatica
Nyssa sylvatica
Viburnum prunifolium
Crataegus spp.
Tsuga canadensis
Tsuga canadensis
Ilex opaca
Gleditsia triacanthos
Syringa vulgaris
Syringa reticulata
Tilia spp.
Magnolia soulangiana
Magnolia grandiflora
Magnolia stellata
Ginkgo biloba
Acer griseum
Acer platanoides
Acer palmatum
Acer rubrum
Acer saccharum
Viburnum rufidulum
Quercus muehlenbergii
Quercus virginiana
Quercus palustris
Quercus rubra
Quercus michauxii
Quercus nigra
Quercus alba
Quercus phellos
Olea europaea
Phoenix spp.
Washingtonia spp.
Butia spp.
Washingtonia spp.
Prunus persica
Pyrus calleryana 'Bradford'
Carya illinoensis
Pinus nigra
Pinus pinea
Pinus taeda
Pinus radiata
Pinus resinosa
Pinus sylvestris
Pinus virginiana
Pinus strobus
Prunus cerasifera
Populus nigra
Juniperus virginiana
Thuja plicata
Eucalyptus sideroxylon 'Rosea'
Metasequoia glyptostroboides
Sequoiadendron giganteum
Amelanchier laevis
Oxydendrum arboreum
Picea pungens
Picea glauca 'albertiana'
Picea abies
Picea glauca

20040412.Proposed Label

Sweetgum
Sycamore
Trachycarpus
Tulip tree
Walnut, Black
Willow, Weeping
Yellowwood

Liquidambar styraciflua
Platanus occidentalis
Trachycarpus spp.
Liriodendron tulipifera
Juglans nigra
Salix babylonica
Cladrastis lutea

SHRUBS

Common Name
Abelia, Glossy
Aucuba, Gold
Azalea
Bamboo, Heavenly
Barberry
Barberry, Japanese
Blue Indigo Bush
Bottlebrush, Lemon
Boxwood, Common
Boxwood, Japanese
Brittlebush
Buttonbush
Camellia
Cape Jasmine
Cassia, Feathery
Cordyline
Correa
Cotoneaster
Cotoneaster, Bearberry
Cotoneaster, Rock
Cypress, Italian
Cypress, Leyland
Deutzia, Slender
Dogwood, Red Twig
Elaeagnus
Escallonia
Euonymus
Euonymus, Golden
Euonymus, Winged
Firethorn
Forsythia, Border
Fragrant Olive
Fuschia, California
Gardenia
Hawthorne, Indian
Hibiscus
Holly, Chinese
Holly, Japanese
Holly, Fosters
Holly, Savannah
Holly, Yaupon
Honeysuckle, Bush
Hopseed Bush
Hopbush
Hydrangea
Juniper
Juniper, Chinese
Juniper, Shore
Juniper, Trailing
Laurel, Cherry
Laurel, Mountain
Laurel, Otto Luyken
Laurel, Schipka
Laurustinus
Lavender, English
Leucothoe
Leucothoe, Coast
Lilac, Cut-leaf
Lily-of-the-Nile
Mahonia
Mock Orange
Myrtle, Compact
Myrtle, Wax

Scientific Name
Abelia grandiflora
Aucuba japonica
Rhododendron sp.
Nandina domestica
Berberis gladiolifolia
Berberis thunbergii
Dalea greggii
Callistemon citrinus
Buxus sempervirens
Buxus microphylla
Encelia farinosa
Cephalanthus occidentalis
Camellia japonica
Gardenia jasminoides
Cassia artemisioides
Cordyline spp.
Correa spp.
Cotoneaster apiculatus
Cotoneaster dammeri
Cotoneaster horizontalis
Cupressus sempervirens
Cupressocyparis leylandii
Deutzia gracilis
Cornus sericea
Elaeagnus ebbingei
Escallonia fradesii
Euonymus fortunei
Euonymus japonica
Euonymus alata
Pyracantha coccinea
Forsythia intermedia
Osmanthus fragrans
Zauschneria californica
Gardenia jasminoides
Raphiolepis indica
Hibiscus syriacus
Ilex cornuta
Ilex crenata
Ilex attenuata 'Fosteri'
Ilex attenuata
Ilex vomitoria
Diervilla lonicera
Dodonaea viscosa
Dodonaea viscosa
Hydrangea macrophylla
Juniperus sp.
Juniperus chinensis v. pfitzer
Juniperus conferta
Juniperus horizontalis
Prunus laurocerasus
Kalmia latifolia
Prunus laurocerasus
Prunus schipkanensis
Viburnum tinus
Lavandula angustifolia
Leucothoe fontanesiana
Leucothoe axillaris
Syringa laciniata
Agapanthus africanus
Mahonia aquifolium
Pittosporum tobira
Myrtus communis
Myrica cerifera

20040412. Proposed Label

Nandina
 Oleander
 Oregon Grape
 Osmanthus
 Palm, European Fan
 Palm, Mediterranean Fan
 Phlox, Prickly
 Photinia, Fraser
 Pieris, Japanese
 Pine, Mugo
 Plum, Natal
 Privet, California
 Privet, Glossy
 Privet, Variegated
 Privet, Waxleaf
 Pyracantha
 Quince, Flowering
 Ranger, Texas
 Redroot
 Rhododendron
 Robira
 Rose
 Spice Plant
 Spiraea
 Spiraea, Anthony Waterer
 Spiraea, Japanese
 Sweet Bay
 Trumpet Bush
 Verbena, Lemon
 Viburnum
 Vitex
 Weigela
 Wild Lilac
 Wisteria
 Xylosma
 Yellowbells
 Yew
 Yew, Japanese
 Yew, Southern
 Yucca, Adam's Needle
 Yucca, Weeping

Nandina domestica
Nerium oleander
Mahonia aquifolium
Osmanthus fragrans
Chamaerops humilis
Chamaerops spp.
Leptodactylon californicum
Photinia X Fraseri
Pieris japonica
Pinus mugo
Carissa grandiflora
Ligustrum ovalifolium
Ligustrum lucidum
Ligustrum sinensis
Ligustrum japonicum
Pyracantha coccinea
Chaenomeles japonica
Leucophyllum frutescens
Ceanothus spp.
Rhododendron spp.
Pittasporum tobira
Rosa spp.
Illicium parviflorum
Spiraea vanhouttei
Spiraea X bumalda
Spiraea japonica
Laurus nobilis
Tecoma stans
Aloysia triphylla
Viburnum suspensum
Vitex spp.
Weigela florida
Ceanothus spp.
Wisteria spp.
Xylosma congestum
Tecoma stans
Taxus media
Taxus cuspidata
Podocarpus macrophyllus
Yucca filamentosa
Yucca pendula

GROUND COVERS

Common Name
 Ajuga
 Baby Sun Rose
 Beach Strawberry
 Capeweed
 Cinquefoil, Spring
 Coyotebrush, Dwarf
 Daisy, Trailing African
 Dymondia
 Gazania
 Iceplant, Large Leaf
 Ivy, English
 Ivy, Geranium
 Jasmine, Asiatic
 Jasmine, Primrose
 Jessamine, Carolina
 Manzanita, Bearberry
 Miscanthus
 Mondo grass
 Morning glory
 Myoporum
 Pachysandra
 Potentilla
 Periwinkle, Common
 Red Apple
 Rosemary
 Rose-Of-Sharon
 Sand Strawberry
 Sedum
 St. Johnswort, Creeping

Scientific Name
Ajuga reptans
Aptenia cordifolia
Fragaria chiloensis
Arctotheca calendula
Potentilla verna
Baccharis pitularis
Osteospermum fruticosum
Dymondia margaretae
Gazania splendens
Carpobrotus edulis
Hedera helix
Pelargonium peltatum
Trachelospermum asiaticum
Jasminum mesnyi
Gelsemium sempervirens
Arctostaphylos uva-ursi
Miscanthus spp.
Ophiopogon japonica
Convolvulus spp.
Myoporum parvifolium
Pachysandra terminalis
Potentilla fruticosa
Vinca minor
Aptenia cordifolia
Rosemarinus officinalis
Hypericum calycinum
Fragaria chiloensis
Sedum spurium
Hypericum calycinum

20040412. Proposed Label

Stonecrop
Verbena, Peruvian
Vervain
Vetch, Crown
Vinca or Greater Periwinkle
Wintercreeper

PERENNIALS

Common Name

Acacia
Asparagus
Aster, New York
Aster, Stokes
Astilbe (False Spirea)
Babys Breath
Beard-Tongue
Bellflower
Bird of Paradise
Black-eyed Susan
Blanket Flower
Bleeding Heart
Butterfly Weed
California Poppy
Calla Lily
Canna, Common Garden
Carex
Cast Iron plant
Chincherinchee
Clover, Crimson
Columbine
Coreopsis
Crinum, Lily
Crocus
Daffodil
Daylily
False dragonhead
Fairy Duster
Fern, Asparagus
Fern, Tree
Fern, Boston
Fern, Leatherleaf*
Fortnight Lily
Foxglove, Common
Freesia
Fuchsia, Arizona
Gayfeather
Gaillardia
Geum
Gladiolus
Heather, Dwarf
Hosta
Hyssop, Sunset
Indian Blanket
Lantana, Weeping
Leopards Bane
Lily
Liriope, Big Blue
Liriope, Creeping
Liriope, Variegated
Loosestrife, Garden
Moonbeam
Montbretia
Nightshade
Orchid, Peacock
Oxeye Daisy
Peony, Chinese
Purple Coneflower
Purple Loosestrife
Rosemary
Ruscus, Israeli
Sage, Russian
Sedge
Shasta Daisy

Sedum spurium
Verbena peruviana
Verbena peruviana
Vicia sativa
Vinca major
Euonymus fortunei

Scientific Name

Acacia redolens
Asparagus spp.
Aster novi-belgii
Stokesia laevis
Astilbe spp.
Gypsophila elegans
Penstemon spp.
Campanula spp.
Caesalpinia pulcherrima
Rudbeckia hirta
Gaillardia x grandiflora
Dicentra spectabilis
Asclepias tuberosa
Eschscholzia californica
Zantedeschia aethiopica
Canna generalis 'Lucifer'
Carex spp.
Aspidistra elatior
Ornithogalum thyrsoides
Trifolium incarnatum
Aquilegia 'McKana Giant'
Coreopsis lanceolata
Crinum spp.
Crocus spp.
Narcissus spp.
Hemerocallis spp.
Physostegia virginiana
Calliandra eriophylla
Asparagus officinalis
Asparagus virgatus
Nephrolepis exaltata
Rumohra adiantiformis
Moraea spp.
Digitalis purpurea
Freesia x hybrida
Zauschneria Californica
Liatris spp.
Gaillardia pulchella
Geum spp.
Gladiolus spp.
Calluna vulgaris
Hosta spp.
Agastache rupestris
Gaillardia pulchella
Lantana montevidensis
Doronicum cordatum
Lilium spp.
Liriope muscari
Liriope spicata
Liriope muscari
Lysimachia punctata
Coreopsis verticillata
Crocasmia crocosmiflora
Solanum spp.
Acidanthera bicolor
Chrysanthemum leucanthemum
Paeonia lactiflora
Echinacea purpurea
Lythrum virgatum
Rosmarinus officinalis
Ruscus hypophyllum
Perovskia atriplicifolia
Carex spp.
Chrysanthemum x superbum

20040412. Proposed Label

Sweet Flag
 Tickseed
 Texas Bluebonnet
 Tulip
 Twinspur
 Wonder Flower
 Yarrow
 Zephyr Lily

Acorus calamus
Coreopsis lanceolata
Lupinus texensis
Tulipa spp.
Diascia barbaerae
Ornithogalum thyrsoides
Achillea millefolium
Zephyranthes spp.

* Applications of TURF FERTILIZER WITH PENDIMETHALIN 0.75 to immature ferns (during periods of new growth of fronds) may result in some injury.

ORNAMENTAL GRASSES

Common Name

Beach Grass
 Fescue, Blue
 Fescue, Sheep
 Fountain Grass
 Pampas Grass
 Reed Canary Grass
 Reed, Giant
 Ribbon Grass
 Tufted Hair Grass

Scientific Name

Ammophila breviligulata
Festuca ovina
Festuca ovina
Pennisetum setaceum
Cortaderia selloana
Phalaris arundinacea
Arundo spp.
Phalaris arundinacea
Deschampsia caespitosa

BEDDING PLANTS*

Common Name

Ageratum
 Alyssum
 Anemone, Poppy-flowered
 Artemisia
 Balloonflower
 Begonia
 Cabbage, Ornamental
 Caladium
 China Aster
 Crocosmia, Montebretia
 Dahlia
 Dianthus
 Dusty Miller
 Gazania, Treasure Flower
 Gazania, Trailing
 Geranium
 Gloxinia
 Impatiens
 Kale, Ornamental
 Marigold, African
 Moss Rose
 Mum, Garden
 Pansy, Garden
 Periwinkle, Rose

Scientific Name

Ageratum houstonianum
Alyssum saxatile
Anemone coronaria
Artemisia spp.
Platycodon grandiflorum
Begonia spp.
Brassica oleracea
Caladium spp.
Callistephus chinensis
Crocosmia x crocosmiflora
Dahlia spp.
Dianthus barbatus
Senecio cineraria
Gazania rigens
Gazania rigens leucolaena
Geranium sp.
Gloxinia simningia
Impatiens sp.
Brassica napus
Tagetes erecta
Portulaca grandiflora
Chrysanthemum spp.
Viola x Wittrockiana
Catharanthus roseus
 or *Vinca rosea*
Petunia spp.
Celosia cristata
Portulaca grandiflora
Salvia splendens
Antirrhinum majus
Limnium spp.
Dianthus barbatus
Catharanthus roseus
Zinnia sp.

*After planting bedding plants and before TURF FERTILIZER WITH PENDIMETHALIN 0.75 is applied, area to be treated should be watered sufficiently to pack soil around roots.

TURF FERTILIZER WITH PENDIMETHALIN 0.75 may be used on plant species not listed on this label. The suitability for such uses should be determined by treating a small number of such plants at the recommended rate. Treated plants should be evaluated 1-2 months following treatment for possible injury. 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 or feed.

¹ Vantage is a registered trademark of BASF Corporation

^{2,6} Acclaim Extra and Finale are registered trademarks of Bayer Environmental Sciences

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20040412. Proposed Label

³ Trimec is a trademark of PBI Gordon Corporation

⁴ Three-Way is a trademark of Lesco Inc.

⁵ Roundup PRO is a registered trademark of Monsanto Company

Net Contents 50 Pounds

Harrell's, Inc.

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