

52287-18

07/24/2009

1/17



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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Mr. Robert F. Bischoff
Product Registration
TotalTurf Consulting LLC
Agent for Harrell's LLC
26 A.A. Cooper Road
Megs, GA 31765

JUL 24 2009

SUBJECT: Application for Pesticide Notification (PRN 98-10)
Request Alternate Brand Name "Fertilizer W/Pendimethalin 1.0%"
EPA Reg. No. 52287-18
Application Dated June 17, 2009

Dear Registrant:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 06/17/09 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Owen F. Beeder of my staff at 703-308-8899.

Sincerely,

A handwritten signature in black ink, appearing to be "Linda Arrington".

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs



United States
Environmental Protection Agency
 Washington, DC 20460

Registration
 Amendment
 Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 52287-18	2. EPA Product Manager Jim Tompkins	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Turf Fertilizer with Pendimethalin 1.0	PM# 25	
5. Name and Address of Applicant (Include ZIP Code) Harrell's LLC P. O. Box 807 Lakeland, FL 33802 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. <u>N/A</u> Product Name <u>N/A</u> <div style="text-align: right; font-weight: bold;">NOTIFICATION</div> <div style="text-align: right;">III 24 2009</div>

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

Notification of Alternate Brand Name per PR Notice 98-10 (IIA). This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Unit Packaging wgt. No. per container	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If "Yes" Package wgt No. per container	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input checked="" type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
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* Certification must be submitted

3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container	4. Size(s) Retail Container 50 lbs	5. Location of Label Directions <input checked="" type="checkbox"/> On Affixed Label
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph Paper glued Stenciled <input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Robert F. Bischoff	Title Agent, TotalTurf Consulting LLC	Telephone No. (Include Area Code) (313) 273-0222
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<p style="text-align: center;">Certification</p> <p>I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.</p>	6. Date Application Received (Stamped)
2. Signature 	3. Title Agent, TotalTurf Consulting LLC
4. Typed Name Robert F. Bischoff	5. Date June 17, 2009

NOTIFICATION

JUL 24 2009

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**FERTILIZER W/PENDIMETHALIN 1.0%
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	1.00%
INERT INGREDIENTS	99.00%
TOTAL	100.00%

EPA Reg. No. 52287-18

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.

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Table with 2 columns: Condition (e.g., If swallowed, If on skin or clothing) and First Aid instructions (e.g., Call a poison control center, Rinse skin immediately).

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

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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 LLC 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 FERTILIZER W/PENDIMETHALIN 1.0% 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.

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.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container, offer for recycling if available. 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.

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Observe all cautions and limitations on this label and the labels of products used in combination with FERTILIZER W/PENDIMETHALIN 1.0%. The use of FERTILIZER W/PENDIMETHALIN 1.0% 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, LLC. All such risks shall be assumed by the user.

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

GENERAL INFORMATION

FERTILIZER W/PENDIMETHALIN 1.0% 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. FERTILIZER W/PENDIMETHALIN 1.0% can be used around established ornamentals in the landscape and in established wildflower plantings. FERTILIZER W/PENDIMETHALIN 1.0% may be used for hardwood and conifer regeneration on conservation reserve program.

FERTILIZER W/PENDIMETHALIN 1.0% 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.

FERTILIZER W/PENDIMETHALIN 1.0% 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 FERTILIZER W/PENDIMETHALIN 1.0% 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 FERTILIZER W/PENDIMETHALIN 1.0% 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.

FERTILIZER W/PENDIMETHALIN 1.0% 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, FERTILIZER W/PENDIMETHALIN 1.0% 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 FERTILIZER W/PENDIMETHALIN 1.0%.

Apply with properly calibrated spreader equipment 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.

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

Recommended Rates:

<u>Spreader</u>	<u>Ground Speed</u>	<u>Spreading Width</u>	<u>lbs. per acre</u>		
			<u>152</u>	<u>227</u>	<u>303</u>
LESCO Rotary	3 mph	9 ft.	C 1/2 10"/32	D 1/2 12"/32	E 1/2 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

¹Models WTR, WRF, HR, and 1250 PTO-450 rpm

²Vicon - 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

FERTILIZER W/PENDIMETHALIN 1.0% 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

<u>Common Name</u>	<u>Scientific Name</u>
Barnyardgrass	<i>Echinochloa crus-galli</i>
Bluegrass, Annual	<i>Poa annua</i>
Crabgrass	<i>Digitaria spp.</i>
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 spp.</i>
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 uninervis</i>
Sprangletop, Red	<i>Leptochloa filiformis</i>
Witchgrass	<i>Panicum capillare</i>
Woolly Cupgrass	<i>Eriochloa villosa</i>

BROADLEAF WEEDS CONTROLLED

<u>Common Name</u>	<u>Scientific Name</u>
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 spp.</i>
Eveningprimrose	<i>Oenothera biennis</i>
Fiddleneck	<i>Amsinckia intermedia</i>
Filaree	<i>Erodium spp.</i>
Henbit	<i>Lamium amplexicaule</i>
Knotweed, prostrate	<i>Polygonum aviculare</i>
Kochia	<i>Kochia scoparia</i>
Lambsquarters	<i>Chenopodium album</i>
Pigweed	<i>Amaranthus spp.</i>
Puncturevine	<i>Tribulus terrestris</i>
Purslane	<i>Portulaca oleracea</i>
Pusley, Florida	<i>Richardia scabra</i>
Rocket, London	<i>Sisymbrium irio</i>

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Shepherdspurge
 Smartweed, Pennsylvania
 Speedwell, Corn
 Spurge, Annual
 Spurge, Prostrate
 Woodsorrel, Yellow
 Velvetleaf (Buttonweed)

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

TURFGRASSES

APPLICATION RATES FOR TURF WEED CONTROL ¹

Turfgrass Species	Weeds	Rates of Fertilizer W/Pendimethalin 1.0%	Comments
COOL SEASON GRASSES			
Bluegrass, Kentucky Fescue, fine Fescue, tall Ryegrass, perennial	crabgrass	150-200 lbs./acre as the initial application prior to weed germination in the spring.	Apply a repeat application of 100-150 lbs./acre after 5 - 8 weeks for extended control or where heavy weed infestations are expected.
	foxtail		
	<i>Poa annua</i>		
	barnyardgrass		
	fall panicum		
	oxalis		
	prostrate spurge		
	purslane		
	knotweed		
	evening primrose		
	hop clover		
	goosegrass	Residential² Turf Uses Only: 100-150 lbs./acre in the spring prior to weed germination.	Apply a repeat application of 100 lbs./acre after 5 - 8 weeks if the lower rates was used initially or for extended goosegrass control.
		Golf Course and Commercial Turf Uses: 100-300 lbs./acre in the spring prior to weed germination.	
	cudweed	150-200 lbs./acre	Apply in late summer or early fall prior to weed germination.
	<i>Poa annua</i>		
	chickweed		
	lawn burweed		
	henbit		
	corn speedwell		
Bentgrass or established <i>Poa annua</i> ⁴ (1/2 inch height or taller)	crabgrass	200 lbs./acre in the spring prior to weed germination.	Apply a repeat application of 100-200 lbs./acre after 5-8 weeks where heavy weed infestations are expected.
	foxtail		
	<i>Poa annua</i> barnyardgrass		
	fall panicum		
	oxalis		
	prostrate spurge		
	purslane		
	knotweed		
	evening primrose		
	hop clover		
	goosegrass	200 lbs./acre in the spring prior to weed germination.	

Apply a repeat application of 200 lbs./acre after 5-8 weeks.

cudweed	100-300 lbs./acre	Apply in late summer or early fall prior to weed germination.
<i>Poa annua</i>		
chickweed		
lawn burweed		
henbit		
corn speedwell		

WARM SEASON GRASSES

Bahiagrass	Crabgrass	Residential² Turf Uses Only: 150-200 lbs./acre in the spring prior to weed germination.	Apply a repeat application of 100-150lb./acre after 5-8 weeks if necessary.
Bermudagrass	foxtail,		
Buffalograss	<i>Poa annua</i>	Golf Course and Commercial Turf Uses: 150-300 lbs./acre in the spring prior to weed germination.	
Centipedegrass	Barnyardgrass		
Fescue, tall	fall panicum		
St. Augustinegrass	oxalis		
Zoysiagrass	prostrate spurge		
	purslane		
	knotweed		
	evening primrose		
	hop clover		
	goosegrass	150 lbs./acre prior to weed germination in the spring. Apply a repeat application of 150-200 lbs./acre after 5 - 8 weeks.	An additional application of 150 lbs./acre may be applied for extended goosegrass control 8 weeks after the second application.
	cudweed	175-233 lbs./acre	Apply in late summer or early fall prior to weed germination.
	<i>Poa annua</i>		
	chickweed		
	lawn burweed		
	henbit		
	corn speedwell		

¹ DO NOT exceed a maximum rate of 200 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 200 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 sprigging 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. FERTILIZER W/PENDIMETHALIN 1.0% 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:

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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

FERTILIZER W/PENDIMETHALIN 1.0% 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 FERTILIZER W/PENDIMETHALIN 1.0%. FERTILIZER W/PENDIMETHALIN 1.0% 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 FERTILIZER W/PENDIMETHALIN 1.0% treatment may be followed by any registered herbicide to control weeds not listed on the FERTILIZER W/PENDIMETHALIN 1.0% label.

ORNAMENTAL BULBS

FERTILIZER W/PENDIMETHALIN 1.0% may be applied for control of susceptible annual weeds in ornamental bulbs listed on the label (crocus, daffodil (narcissus), gladiolus, tulip, etc.). Apply FERTILIZER W/PENDIMETHALIN 1.0% prior to, during or after bulb emergence. If weeds have already germinated use a labeled postemergence herbicide to control emerged weeds.

WILDFLOWERS

FERTILIZER W/PENDIMETHALIN 1.0% 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.). FERTILIZER W/PENDIMETHALIN 1.0% may be applied to established perennial wildflowers before emergence of weeds or wildflowers. For wildflowers being established from seed, apply FERTILIZER W/PENDIMETHALIN 1.0% 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 FERTILIZER W/PENDIMETHALIN 1.0% may vary greatly. Careful testing on desirable species is recommended to determine if area-wide applications can be made.

ORNAMENTAL PRECAUTIONS

Apply FERTILIZER W/PENDIMETHALIN 1.0% 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 FERTILIZER W/PENDIMETHALIN 1.0% 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

FERTILIZER W/PENDIMETHALIN 1.0% is safe around and over the top of the established plants listed below.

TREES

<u>Common Name</u>	<u>Scientific Name</u>
Alder, European Black	<i>Alnus glutinosa</i>
Apple	<i>Malus spp.</i>
Arborvitae, American	<i>Thuja occidentalis</i>
Arbutus	<i>Arbutus spp.</i>
Ash, Red	<i>Fraxinus pennsylvanica</i>
Ash, White	<i>Fraxinus americana</i>
Aspen, Bigtooth	<i>Populus grandidentata</i>
Aspen, Quaking	<i>Populus tremuloides</i>
Basswood	<i>Tilia spp.</i>
Birch, European Weeping	<i>Betula pendula</i>
Birch, River	<i>Betula nigra</i>
Buckeye, Red	<i>Aesculus pavia</i>
Cedar, White	<i>Thuja occidentalis</i>
Chamaecyparis, Boulevard	<i>Chamaecyparis pisifera</i>
Cherry, Black	<i>Prunus serotina</i>
Cherry, Choke	<i>Prunus virginiana</i>
Cherry, Kwanzan	<i>Prunus serrulata</i>
Cherry, Nanking	<i>Prunus tomentosa</i>
Cottonwood	<i>Populus deltoides</i>
Crabapple	<i>Malus spp.</i>
Crepe Myrtle	<i>Lagerstroemia indica</i>
Cryptomeria, Japanese Cedar	<i>Cryptomeria japonica</i>

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Cypress, Bald	<i>Taxodium distichum</i>
Cypress, Leyland	<i>Cupressocyparis leylandii</i>
Dogwood, Flowering	<i>Cornus florida</i>
Dogwood, Korean	<i>Cornus kousa</i>
Dogwood, Silky	<i>Cornus amomum</i>
Dogwood, Shrub	<i>Cornus spp.</i>
Elm	<i>Ulmus japonica</i>
Fir, Balsam	<i>Abies balsamae</i>
Fir, Douglas	<i>Pseudotsuga menziesii</i>
Fir, Fraser	<i>Abies fraseri</i>
Fir, White	<i>Abies concolor</i>
Franklinia	<i>Franklinia spp.</i>
Ginkgo	<i>Ginkgo biloba</i>
Gum, Black	<i>Nyssa sylvatica</i>
Gum, Sour	<i>Nyssa sylvatica</i>
Haw, Black	<i>Viburnum prunifolium</i>
Hawthorn	<i>Crataegus spp.</i>
Hemlock, Canada	<i>Tsuga canadensis</i>
Hemlock, Eastern	<i>Tsuga canadensis</i>
Holly, American	<i>Ilex opaca</i>
Honeylocust	<i>Gleditsia triacanthos</i>
Lilac, Common	<i>Syringa vulgaris</i>
Lilac, Japanese Tree	<i>Syringa reticulata</i>
Linden	<i>Tilia spp.</i>
Magnolia, Saucer	<i>Magnolia soulangiana</i>
Magnolia, Southern	<i>Magnolia grandiflora</i>
Magnolia, Star	<i>Magnolia stellata</i>
Maidenhair Tree	<i>Ginkgo biloba</i>
Maple, Paper-bark	<i>Acer griseum</i>
Maple, Norway	<i>Acer platanoides</i>
Maple, Japanese	<i>Acer palmatum</i>
Maple, Red	<i>Acer rubrum</i>
Maple, Sugar	<i>Acer saccharum</i>
Nannyberry, Rusty	<i>Viburnum rufidulum</i>
Oak, Chinquapin	<i>Quercus muehlenbergii</i>
Oak, Live	<i>Quercus virginiana</i>
Oak, Pin	<i>Quercus palustris</i>
Oak, Red	<i>Quercus rubra</i>
Oak, Swamp Chestnut	<i>Quercus michauxii</i>
Oak, Water	<i>Quercus nigra</i>
Oak, White	<i>Quercus alba</i>
Oak, Willow	<i>Quercus phellos</i>
Olive	<i>Olea europaea</i>
Palm, Date	<i>Phoenix spp.</i>
Palm, Fan	<i>Washingtonia spp.</i>
Palm, Pindo	<i>Butia spp.</i>
Palm, Washington	<i>Washingtonia spp.</i>
Peach	<i>Prunus persica</i>
Pear, Bradford	<i>Pyrus calleryana 'Bradford'</i>
Pecan	<i>Carya illinoensis</i>
Pine, Austrian	<i>Pinus nigra</i>
Pine, Italian Stone	<i>Pinus pinea</i>
Pine, Loblolly	<i>Pinus taeda</i>
Pine, Monterey	<i>Pinus radiata</i>
Pine, Red	<i>Pinus resinosa</i>
Pine, Scotch	<i>Pinus sylvestris</i>
Pine, Virginia	<i>Pinus virginiana</i>
Pine, White	<i>Pinus strobus</i>
Plum, Purple Leaf	<i>Prunus cerasifera</i>
Poplar, Black	<i>Populus nigra</i>
Redcedar, Eastern	<i>Juniperus virginiana</i>
Redcedar, Western	<i>Thuja plicata</i>
Red Ironbark	<i>Eucalyptus sideroxylon 'Rosea'</i>
Redwood, Dawn	<i>Metasequoia glyptostroboides</i>
Sequoia, Giant	<i>Sequoiadendron giganteum</i>
Serviceberry	<i>Amelanchier laevis</i>
Sourwood	<i>Oxydendrum arboreum</i>
Spruce, Colorado Blue	<i>Picea pungens</i>
Spruce, Dwarf Alberta	<i>Picea glauca 'albertiana'</i>
Spruce, Norway	<i>Picea abies</i>
Spruce, White	<i>Picea glauca</i>
Sweetgum	<i>Liquidambar styraciflua</i>
Sycamore	<i>Platanus occidentalis</i>

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Trachycarpus
Tulip tree
Walnut, Black
Willow, Weeping
Yellowwood

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
Cordylina
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
Nandina
Oleander

Scientific Name
Abelia grandiflora
Aucuba japonica
Rhododendron sp.
Nandina domestica
Berberis gladwynensis
Berberis thunbergii
Dalea gregii
Callistemon citrinus
Buxus sempervirens
Buxus microphylla
Encelia farinosa
Cephalanthus occidentalis
Camellia japonica
Gardenia jasminoides
Cassia artemisioides
Cordylina 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
Nandina domestica
Nerium oleander

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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

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.
Pittosporum 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
 Mondograss
 Morninglory
 Myoporum
 Pachysandra
 Potentilla
 Periwinkle, Common
 Red Apple
 Rosemary
 Rose-Of-Sharon
 Sand Strawberry
 Sedum
 St. Johnswort, Creeping
 Stonecrop
 Verbena, Peruvian

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
Sedum spurium
Verbena peruviana

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Vervain
Vetch, Crown
Vinca or Greater Periwinkle
Wintercreeper

Verbena peruviana
Vicia sativa
Vinca major
Euonymus fortunei

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
Fushcia, 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
Sweet Flag
Tickseed

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
Lillium spp.
Liriope muscari
Liriope spicata
Liriope muscari
Lysimachia punctata
Coreopsis verticillata
Crocsmia crocosmiflora
Solanum spp.
Acidanthera bicolor
Chrysanthemum leucanthemum
Paeonia lactiflora
Echinacea purpurea
Lythrum virgatum
Rosmarinus officinalis
Ruscus hypophyllum
Perovskia atriplicifolia
Carex spp.
Chrysanthemum x superbum
Acorus calamus
Coreopsis lanceolata

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Texas Bluebonnet
Tulip
Twinspur
Wonder Flower
Yarrow
Zephyr Lily

Lupinus texensis
Tulipa spp.
Diascascia barbaerae
Ornithogalum thyrsoides
Achillea millefolium
Zephyranthes spp.

* Applications of FERTILIZER W/PENDIMETHALIN 1.0% 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
Artemesia
Balloonflower
Begonia
Cabbage, Ornamental
Caladium
China Aster
Crocsmia, 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

Petunia
Plumosa Cockscomb
Portulaca
Salvia
Snapdragon
Statice
Sweet William
Vinca or Periwinkle
Zinnia

Scientific Name
Ageratum houstonianum
Alyssum saxatile
Anemone coronaria
Artemesia spp.
Platycodon grandiflorum
Begonia spp.
Brassica oleracea
Caladium spp.
Callistephus chinensis
Crocsmia x crocosmiiflora
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
Limonium spp.
Dianthus barbatus
Catharanthus roseus
Zinnia sp.

*After planting bedding plants and before FERTILIZER W/PENDIMETHALIN 1.0% is applied, area to be treated should be watered sufficiently to pack soil around roots.

FERTILIZER W/PENDIMETHALIN 1.0% 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.

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⁵ Roundup PRO is a registered trademark of Monsanto Company

Net Contents 50 Pounds

Harrell's, LLC
P. O. Box 807
Lakeland, FL 33802

Batch No.