

19713-579

03/20/2009

1/10



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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Luz G. Chan  
Registration Manager  
Drexel Chemical Company  
P.O. Box 13327  
Memphis, TN 38113-0327

MAR 20 2009

SUBJECT: Application for Pesticide Notification – Labeling Changes per PR Notices 98-10 and 2007-4  
Drexel Pendiguard™ Turf 0.66%  
EPA Reg. No. 19713-579  
Application Dated October 30, 2008

Dear Ms. Chan:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notices (PRNs) 98-10 and 2007-4 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRNs 98-10 and 2007-4, and finds that the label changes requested fall within the scope of these PRNs. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Terri Stowe of my staff at 703-305-6117.

Sincerely,

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

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



**Drexel Chemical Company**

2/10

October 30, 2008

Document Processing Desk (**NOTIF**)  
Office of Pesticide Programs (7504P)  
U.S. Environmental Protection Agency  
Rm S-4900, One Potomac Yard  
2777 S Crystal Drive  
Arlington, VA 22202

**Re: Submission of Revised Label by Notification  
DREXEL PENDIGUARD TURF 0.66% (EPA Reg. No. 19713-579)**

Herewith:

1. Completed EPA Form 8570-1
2. One (1) copy of the label (579SP-1108) with the following revisions:
  - i) The word "exist" was added after "washables" under the PPE section.
  - ii) On page 2, under "Application", the second sentence was revised to read "Avoid overlaps that will increase rates above those *specified*." Also, the sentence was restated to read "This product provides preemergence control of the weed species listed."
  - iii) Typos on the name of weeds were corrected.
  - iv) "nitial" was corrected to read "initial" on page 3
  - v) Container Disposal statements were revised per PR Notice 2007-4.
  - vi) Under 'Warranty', the first sentence was revised to read "OUR **DIRECTIONS FOR USE**....."

I highlighted the changes for easy reference.

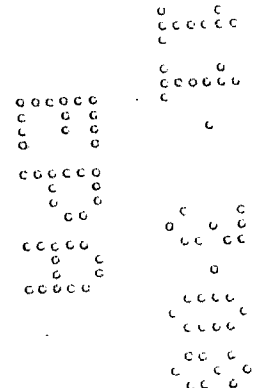
3. Certification Statement

If you have questions/clarification regarding this submission, I can be reached at (901) 774-4370 or e-mail [Lchan@drexchem.com](mailto:Lchan@drexchem.com).

Thank you.

Respectfully yours,  
FOR DREXEL CHEMICAL COMPANY

*Luz G Chan*  
Luz G Chan  
Registration Manager





**Drexel Chemical Company**

3/10

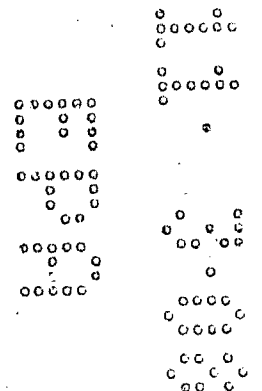
October 30, 2008

***Submission of Revised Label per PR Notice 98-10 and PR Notice 2007-4***  
**DREXEL PENDIGUARD TURF 0.66% (EPA Reg. No. 19713-597)**

This notification is consistent with the Provisions of PR Notice 98-10 and PR Notice 2007-4 and EPA Regulations at 40 CFR 152.46, 156.10, 156.140, 156.144, and 156.146 and no other changes have been made to the labeling other than what is stated on the cover letter accompanying this submission 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, 156.10, 156.140, 156.144, and 156.146 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.

FOR DREXEL CHEMICAL COMPANY

LUZ G CHAN  
Registration Manager



4/10

NOTIFICATION

MAR 20 2009



# Pendiguard™ Turf 0.66%

Preemergent Weed Control

**0.66% Pendimethalin + XX-XX-XX Fertilizer**  
FOR USE ON TURFGRASSES, ORNAMENTAL PLANTINGS,  
AND GROUND COVERS AS LISTED.

**ACTIVE INGREDIENT:**

Pendimethalin: N-(1-ethylpropyl)-3,4-dimethyl-  
2,6-dinitrobenzenamine..... 0.66%

**OTHER INGREDIENTS:** ..... 99.34%

**TOTAL:** ..... 100.00%

(50 pounds of this product contains 0.33 pound of the active ingredi-  
ent, Pendimethalin)

<b>XX-XX-XX</b>	
<b>GUARANTEED ANALYSIS:</b>	
Total Nitrogen (N) .....	xx.xx%
xx.xx% Ammoniacal Nitrogen	
xx.xx% Urea Nitrogen	
Available Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> ) .....	xx.xx%
Soluble Potash (K <sub>2</sub> O) .....	xx.xx%
Sulfur (S), Free .....	xx.xx%
Derived from: (materials will vary with fertilizer blend)	
Chlorine (Cl) .....	Not More Than xx.xx%

## KEEP OUT OF REACH OF CHILDREN CAUTION

See FIRST AID Below

EPA Reg. No. 19713-579

EPA Est. No. 19713-XX-XXX

Net Content: \_\_\_\_\_

<b>FIRST AID</b>	
<b>IF IN EYES:</b>	
• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.	
• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.	
• Call a poison control center or doctor for treatment advice.	
<b>IF ON SKIN OR CLOTHING:</b>	
• Take off contaminated clothing.	
• Rinse skin immediately with plenty of water for 15 to 20 minutes.	
• Call a poison control center or doctor for treatment advice.	
<b>IF SWALLOWED:</b>	
• Call a poison control center or doctor immediately for treatment advice.	
• Have person sip a glass of water if able to swallow.	
• Do not induce vomiting unless told to do so by a poison control center or doctor.	
• Do not give anything by mouth to an unconscious or convulsing person.	
<b>IF INHALED:</b>	
• Move person to fresh air.	
• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.	
• Call a poison control center or doctor for further treatment advice.	

(Continued)

PENDIGUARD is a trademark of Drexel Chemical Company.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

FOR CHEMICAL SPILL, LEAK, FIRE OR EXPOSURE CALL CHEMTREC: 1-800-424-9300

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

**CAUTION:** Causes moderate eye irritation. Harmful if swallowed or absorbed through the skin. Avoid contact with eyes, skin, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling.

**Personal Protective Equipment (PPE):** Some materials that are chemical-resistant to this product are any waterproof material (refer to Category A on an EPA chemical-resistance selection chart).

**Applicators and other handlers must wear:** Long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride, shoes plus socks.

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

### USER SAFETY RECOMMENDATIONS

**Users should:** 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 3) 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 or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift or runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Do not contaminate water when disposing of equipment washwater or rinseate.

### 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 possession of the applicator at the time of pesticide application.

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. Keep children and pets out of the treated area until dusts have settled. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.



Manufactured By:

**Drexel Chemical Company**

P.O. BOX 13327, MEMPHIS, TN 38113-0327

**SINCE 1972**

579SP-1108

PENDIGUARD TURF 0.66% Page 1 of 7

Do not apply this product in greenhouses, shadehouses or other enclosed structures. Not for use in commercial seed production. Do not apply this product through any type of irrigation system.

This product provides 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.

**AGRICULTURAL USE REQUIREMENTS**  
 Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, 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 (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.  
 Do not enter or allow worker entry into treated areas during the REI of 24 hours.  
 PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls, chemical-resistant gloves made of any waterproof material, and shoes plus socks.

**NON-AGRICULTURAL USE REQUIREMENTS**  
 The requirements in this box apply to use of this product that are not within the scope of the WPS 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 the precautions on this label may result in poor weed control, crop injury, or illegal residues.

**USE INFORMATION**

PENDIGUARD TURF 0.66% is a combination preemergent herbicide with fertilizer formulated to provide control of most annual grass weeds and certain broadleaf weeds found in Turfgrass grown in golf courses, lawns in residential, commercial establishments, or grounds around military or other institutions, sod farms, parks, airports, school or cemeteries, prairiegrass areas, athletic fields or recreational areas, roadsides, pipe yards, industrial, unimproved Turf areas, and other sites where Turf may be maintained. This product is labeled for use on the following Turfgrass species: Kentucky bluegrass, Perennial ryegrass, Fine fescue, Tall fescue, Bentgrass (except putting greens and tees), *Poa annua* (except putting greens and tees), Bermudagrass, St. Augustinegrass, Bahiagrass, Centipedegrass, Zoysiagrass, and blends of these grasses.

This product controls weeds as their seeds germinate, but will not control established weeds. Use a postemergent herbicide, such as 2,4-D or MSMA, to control established weeds. Consult all herbicide label directions for proper use and precautions.

Applied according to label directions and under normal growing conditions, this product will not cause Turf injury. Over application can result in Turf stand loss, Turf injury, or soil residues. Uneven application can decrease weed control or cause Turf injury.

Seedling diseases, cold weather, excessive moisture, high soil pH, soil salt concentration, or drought can weaken Turfgrass and increase the possibility of Turf damage from this product.

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.

This product can be used around established Ornamentals and in established Wildflower plantings. This product may be used for hardwood and conifer regeneration on conservation reserve program land.

**APPLICATION**

Apply this product uniformly at the specified rate using a properly calibrated spreader (see table below for approximate settings). Avoid overlaps that will increase rates above those specified. The efficacy of this product 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 this product is not activated by rainfall or irrigation within 30 days of application, erratic weed control may result. Avoid contact of this product with porous surfaces such as driveways, stone, or wood. Removing particles will help prevent staining.

MAXIMUM APPLICATION RATE BY USE SITES			
Use Site	This Product/A (Lbs.)	This Product/ 1,000 sq. ft. (Lbs.)	Pounds a.i./A
Residential* and Sod farm turf	303	6.9	2.0
Golf course, Commercial and other Non-residential	455	10.4	3.0

\* Residential is defined as turf in any residential situation as well as home lawns, schools, parks and playgrounds.

**TABLE OF EQUIVALENTS:**

This Product Per Acre (Lbs.)	This Product Per 1,000 Sq. Ft. (Lbs.)
152	3.5
227	5.2
303	6.9
455	10.4

GRASS WEEDS	
Common Name	Scientific Name
Barnyardgrass	<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 uninervis</i>
Sprangletop, Red	<i>Leptochloa filiformis</i>
Witchgrass	<i>Panicum capillare</i>
Woolly Cupgrass	<i>Eriochloa villosa</i>

BROADLEAVED WEEDS	
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.
Evening primrose	<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>
Rocket, London	<i>Sisymbrium irio</i>
Shepherdspurse	<i>Capsella bursa-pastoris</i>
Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>
Speedwell, Corn	<i>Veronica arvensis</i>
Spurge, Annual	<i>Euphorbia</i> spp.
Spurge, Prostrate	<i>Euphorbia numistrata</i>
Woodsorrel, Yellow	<i>Oxalis stricta</i>
Velvetleaf (Buttonweed)	<i>Abutilon theophrasti</i>

6/10

**TURFGRASSES**

(Residential, Golf course, Commercial, Other Non-residential Turfgrass Uses) For Preemergence Weed Control

TURFGRASS SPECIES	WEEDS CONTROLLED	APPLICATION RATES*	COMMENTS
Cool Season Grasses  Kentucky bluegrass Perennial ryegrass Fine fescue Tall fescue	Crabgrass Foxtail <i>Poa annua</i> Barnyardgrass Fall panicum <i>Oxalis</i> Prostrate spurge Purslane Knotweed Chickweed Evening primrose Hop clover	<b>All Turf Uses:</b> 227 to 303 pounds per acre as the initial application prior to weed germination.	Apply a repeat application of 152 to 227 pounds per acre after 5 to 8 weeks for extended control or where heavy weed infestations are expected.
	Goosegrass	<b>Residential** and Sod Turf Uses Only:</b> 227 to 303 pounds per acre in the Spring prior to weed germination.	Apply a repeat application of 152 pounds per acre after 5 to 8 weeks if the lower rate was used initially or for extended Goosegrass control.
	Goosegrass	<b>Golf course, Commercial, Non-residential Turf Uses Only:</b> 227 to 455 pounds per acre in the Spring prior to weed germination.	Apply a repeat application of 152 pounds per acre after 5 to 8 weeks if the lower rate was used initially or for extended Goosegrass control.
	Cudweed <i>Poa annua</i> Chickweed Lawn burweed Henbit Corn speedwell	<b>All Turf Uses:</b> 227 to 303 pounds per acre.	Apply in late Summer or early Fall prior to weed germination. Apply a repeat application of 227 to 303 pounds per acre after 5 to 8 weeks for extended <i>Poa annua</i> control.
Bentgrass or established <i>Poa annua</i> *** (one-half inch height or taller. Not for use on greens and tees.)	Crabgrass Foxtail <i>Poa annua</i> Barnyardgrass Fall panicum <i>Oxalis</i> Prostrate spurge Purslane Knotweed Chickweed Evening primrose Hop clover	<b>All Turf Uses (Non-Greens and Tees):</b> 227 pounds per acre in the Spring prior to weed germination.	Apply a repeat application of 152 to 227 pounds per acre after 5 to 8 weeks where heavy weed infestations are expected.

(Continued)

TURFGRASS SPECIES	WEEDS CONTROLLED	APPLICATION RATES*	COMMENTS
Bentgrass or established <i>Poa annua</i> *** (one-half inch height or taller. Not for use on greens and tees.)	Goosegrass	<b>All Turf Uses (Non-Greens and Tees):</b> 227 pounds per acre.	Apply in the Spring prior to weed germination. Apply a repeat application of 227 pounds per acre after 5 to 8 weeks for extended control.
	Cudweed <i>Poa annua</i> Chickweed Lawn burweed Henbit Corn speedwell	<b>All Turf Uses (Non-Greens and Tees):</b> 227 to 303 pounds per acre.	Apply in late Summer or early Fall prior to weed germination.
Warm Season Grasses Bermudagrass St. Augustinegrass Bahia Centipede Zoysia Tall fescue Buffalograss	Crabgrass Foxtail <i>Poa annua</i> Barnyardgrass Fall panicum <i>Oxalis</i> Prostrate spurge Purslane Knotweed Evening primrose Hop clover	<b>Residential and Sod Farm Turf Uses Only:</b> 227 to 303 pounds per acre prior to weed germination.  <b>Golf course, Commercial and Other Non-Residential Turf Uses Only:</b> 227 to 455 pounds per acre in the Spring prior to weed germination.	Apply a repeat application of 152 to 227 pounds per acre after 5 to 8 weeks if necessary.
	Goosegrass	<b>All Turf Uses (Non-Greens and Tees):</b> 227 pounds per acre prior to weed germination in the Spring. Apply a repeat application of 227 to 303 pounds per acre after 5 to 8 weeks.	An additional application of 227 pounds per acre may be applied for extended Goosegrass control 8 weeks after the second application.
	Cudweed Evening primrose Henbit <i>Poa annua</i> Chickweed Lawn burweed Corn speedwell	<b>All Turf Uses:</b> 227 to 303 pounds per acre.	Apply in late Summer or early Fall prior to weed germination. Apply a repeat application of 227 to 303 pounds per acre after 5 to 8 weeks for extended <i>Poa annua</i> control.

\* DO NOT exceed a maximum rate of 303 pounds per acre per application for use on Residential Turfgrass and Sod farm Turfgrass.  
DO NOT exceed a maximum rate of 455 pounds per acre per application for use on Golf courses, Turfgrasses, Commercial or other Non-residential Turfgrass.

\*\* Residential is defined as Turf In any residential situation as well as home lawns, schools, parks and playgrounds.

\*\*\* Not for use on Bentgrass or *Poa annua* greens or tees.

7/10

**USE PRECAUTIONS**

- Avoid application when wind conditions may cause drift.
- Use on well established Turfgrass with a dense and uniform stand. On newly planted areas, applications 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 application of this product. 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 label. This product will control Annual grasses and Broadleaved 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:

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, MSMA, or similar product is recommended to control established weeds.

**LANDSCAPE AND GROUNDS MAINTENANCE**

This product can be incorporated into landscape and ground maintenance programs to provide extended preemergence control of most annual grasses and certain broadleaved 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 this product. This product may be used before or after applications of herbicides registered for postemergence use (i.e., Glyphosate) for the control of established weeds. Do not apply sprays containing Glyphosate over the top of desirable plants, and follow the label restrictions. A treatment of this product may be followed by any registered herbicide to control weeds not listed on this product's label.

**ORNAMENTAL BULBS**

This product may be applied for control of susceptible annual weeds in Ornamental bulbs listed on the label (Crocus, Daffodil (Narcissus), Gladiolus, Tulip, etc.). Apply this product prior to, during or after bulb emergence. If weeds have already germinated use a labeled postemergence herbicide to control emerged weeds.

**WILDFLOWERS**

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

**ORNAMENTAL PLANTINGS AND GROUND COVER**

**Use Precautions**

Apply this product to established plantings. May be applied around and over the top of established plants listed below. 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 this product 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 containing product or injury may occur.

TREES	
Common Name	Scientific Name
Alder, European Black	<i>Alnus glutinosa</i>
Apple	<i>Malus</i> spp.
Arborvitae, American	<i>Thuja occidentalis</i>
Arbutus	<i>Arbutus</i> spp.
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</i> spp.
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</i> spp.
Crape Myrtle	<i>Lagerstroemia indica</i>
Cryptomeria, Japanese Cedar	<i>Cryptomeria japonica</i>
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</i> spp.
Elm	<i>Ulmus japonica</i>
Fir, Balsam	<i>Abies balsamiae</i>
Fir, Douglas	<i>Pseudotsuga menziesii</i>
Fir, Fraser	<i>Abies fraseri</i>
Fir, White	<i>Abies concolor</i>
Franklinia	<i>Franklinia</i> spp.
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</i> spp.
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</i> spp.
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>

(Continued)

8/10

TREES	
Common Name	Scientific Name
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</i> spp.
Palm, Fan	<i>Washingtonia</i> spp.
Palm, Pindo	<i>Butia</i> spp.
Palm, Washington	<i>Washingtonia</i> spp.
Peach	<i>Prunus persica</i>
Pear, Bradford	<i>Pyrus calleryana</i> 'Bradford'
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</i> 'Rosea'
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</i> 'albertiana'
Spruce, Norway	<i>Picea abies</i>
Spruce, White	<i>Picea glauca</i>
Sweetgum	<i>Liquidambar styraciflua</i>
Sycamore	<i>Plantanus occidentalis</i>
Trachycarpus	<i>Trachycarpus</i> spp.
Tulip tree	<i>Liriodendron tulipifera</i>
Walnut, Black	<i>Juglans nigra</i>
Willow, Weeping	<i>Salix babylonica</i>
Yellowwood	<i>Cladrastis lutea</i>

SHRUBS	
Common Name	Scientific Name
Abelia, Glossy	<i>Abelia grandiflora</i>
Aucuba, Gold	<i>Aucuba japonica</i>
Azalea	<i>Rhododendron</i> spp.
Bamboo, Heavenly	<i>Nandina domestica</i>
Barberry	<i>Berberis gladywnesis</i>
Barberry, Japanese	<i>Berberis thunbergii</i>
Blue Indigo Bush	<i>Dalea gregii</i>
Bottlebrush, Lemon	<i>Callistemon citrinus</i>
Boxwood, Common	<i>Buxus sempervirens</i>
Boxwood, Japanese	<i>Buxus microphylla</i>
Brittlebush	<i>Encelia farinosa</i>
Buttonbush	<i>Cephalanthus occidentalis</i>
Camellia	<i>Camellia japonica</i>
Cape Jasmine	<i>Gardenia jasminoides</i>
Cassia, Feathery	<i>Cassia artemisioides</i>
Cordylone	<i>Cordylone</i> spp.
Correa	<i>Correa</i> spp.
Cotoneaster	<i>Cotoneaster apiculatus</i>
Cotoneaster, Bearberry	<i>Cotoneaster dammeri</i>
Cotoneaster, Rock	<i>Cotoneaster horizontalis</i>
Cypress, Italian	<i>Cupressus sempervirens</i>
Cypress, Leyland	<i>Cupressocyparis leylandii</i>
Deutzia, Slender	<i>Deutzia gracilis</i>
Dogwood, Red Twig	<i>Cornus sericea</i>
Elaeagnus	<i>Elaeagnus ebbingei</i>
Escallonia	<i>Escallonia fradesii</i>
Euonymus	<i>Euonymus fortunei</i>
Euonymus, Golden	<i>Euonymus japonica</i>

(Continued)

SHRUBS	
Common Name	Scientific Name
Euonymus, Winged	<i>Euonymus alata</i>
Firethorn	<i>Pyracantha coccinea</i>
Forsythia, Border	<i>Forsythia intermedia</i>
Fragrant Olive	<i>Osmanthus fragrans</i>
Fuschia, California	<i>Zauschneria californica</i>
Gardenia	<i>Gardenia jasminoides</i>
Hawthorne, Indian	<i>Raphiolepis indica</i>
Hibiscus	<i>Hibiscus syriacus</i>
Holly, Chinese	<i>Ilex cornuta</i>
Holly, Japanese	<i>Ilex crenata</i>
Holly, Fosters	<i>Ilex attenuata</i> 'Fosteri'
Holly, Savannah	<i>Ilex attenuata</i>
Holly, Yaupon	<i>Ilex vomitoria</i>
Honeysuckle, Bush	<i>Diervilla lonicera</i>
Hopseed Bush	<i>Dodonaea viscosa</i>
Hopbush	<i>Dodonaea viscosa</i>
Hydrangea	<i>Hydrangea macrophylla</i>
Juniper	<i>Juniperus</i> spp.
Juniper, Chinese	<i>Juniperus chinensis</i> v. <i>pfitzer</i>
Juniper, Shore	<i>Juniperus conferta</i>
Juniper, Trailing	<i>Juniperus horizontalis</i>
Laurel, Cherry	<i>Prunus laurocerasus</i>
Laurel, Mountain	<i>Kalmia latifolia</i>
Laurel, Otto Luyken	<i>Prunus laurocerasus</i>
Laurel, Schipka	<i>Prunus schipkanensis</i>
Laurustinus	<i>Viburnum tinus</i>
Lavender, English	<i>Lavandula angustifolia</i>
Leucothoe	<i>Leucothoe fontanesiana</i>
Leucothoe, Coast	<i>Leucothoe axillaris</i>
Lilac, Cut-leaf	<i>Syringa laciniata</i>
Lily-of-the-Nile	<i>Agapanthus africanus</i>
Mahonia	<i>Mahonia aquifolium</i>
Mock Orange	<i>Pittosporum tobira</i>
Myrtle, Compact	<i>Myrtus communis</i>
Myrtle, Wax	<i>Myrica cerifera</i>
Nandina	<i>Nandina domestica</i>
Oleander	<i>Nerium oleander</i>
Oregon Grape	<i>Mahonia aquifolium</i>
Osmanthus	<i>Osmanthus fragrans</i>
Palm, European Fan	<i>Chamaerops humilis</i>
Palm, Mediterranean Fan	<i>Chamaerops</i> spp.
Phlox, Prickly	<i>Leptodactylon californicum</i>
Photinia, Fraser	<i>Photinia x Fraseri</i>
Pieris, Japanese	<i>Pieris japonica</i>
Pine, Mugo	<i>Pinus mugo</i>
Plum, Natal	<i>Carissa grandiflora</i>
Privet, California	<i>Ligustrum ovalifolium</i>
Privet, Glossy	<i>Ligustrum lucidum</i>
Privet, Variegated	<i>Ligustrum sinensis</i>
Privet, Waxleaf	<i>Ligustrum japonicum</i>
Pyracantha	<i>Pyracantha coccinea</i>
Quince, Flowering	<i>Chaenomeles japonica</i>
Ranger, Texas	<i>Leucophyllum frutescens</i>
Redroot	<i>Ceanothus</i> spp.
Rhododendron	<i>Rhododendron</i> spp.
Robira	<i>Pittosporum tobira</i>
Rose	<i>Rosa</i> spp.
Spice Plant	<i>Illicium parviflorum</i>
Spiraea	<i>Spiraea vanhouttei</i>
Spiraea, Anthony Waterer	<i>Spiraea x bumalda</i>
Spiraea, Japanese	<i>Spiraea japonica</i>
Sweet Bay	<i>Laurus nobilis</i>
Trumpet Bush	<i>Tecoma stans</i>
Verbena, Lemon	<i>Aloysia triphylla</i>
Viburnum	<i>Viburnum suspensum</i>
Vitex	<i>Vites</i> spp.
Weigela	<i>Weigela florida</i>
Wild Lilac	<i>Ceanothus</i> spp.
Wisteria	<i>Wisteria</i> spp.

(Continued)



9/10

SHRUBS	
Common Name	Scientific Name
Xylosma	<i>Xylosma congestum</i>
Yellowbells	<i>Tecoma stans</i>
Yew	<i>Taxus media</i>
Yew, Japanese	<i>Taxus cuspidata</i>
Yew, Southern	<i>Podocarpus macrophyllus</i>
Yucca, Adam's Needle	<i>Yucca filamentosa</i>
Yucca, Weeping	<i>Yucca pendula</i>

GROUND COVERS	
Common Name	Scientific Name
Ajuga	<i>Ajuga reptans</i>
Baby Sun Rose	<i>Aptenia cordifolia</i>
Beach Strawberry	<i>Fragaria chiloensis</i>
Capeweed	<i>Arctotheca calendula</i>
Cinquefoil, Spring	<i>Potentilla verna</i>
Coyotebrush, Dwarf	<i>Baccharis pitularis</i>
Daisy, Trailing African	<i>Osteospermum fruticosum</i>
Dymondia	<i>Dymondia margaretae</i>
Gazania	<i>Gazania splendens</i>
Iceplant, Large Leaf	<i>Carpobrotus edulis</i>
Ivy, English	<i>Hedera helix</i>
Ivy, Geranium	<i>Pelargonium peltatum</i>
Jasmine, Asiatic	<i>Trachelospermum asiaticum</i>
Jasmine, Primrose	<i>Jasminum mesnyi</i>
Jessamine, Carolina	<i>Gelsemium sempervirens</i>
Manzanita, Bearberry	<i>Arctostaphylos uva-ursi</i>
Miscanthus	<i>Miscanthus</i> spp.
Mondograss	<i>Ophiopogon japonica</i>
Morninglory	<i>Convolvulus</i> spp.
Myoporum	<i>Myoporum parvifolium</i>
Pachysandra	<i>Pachysandra terminalis</i>
Potentilla	<i>Potentilla fruticosa</i>
Periwinkle, Common	<i>Vinca minor</i>
Red Apple	<i>Aptenia cordifolia</i>
Rosemary	<i>Rosemarinus officinalis</i>
Rose-Of-Sharon	<i>Hypericum calycinum</i>
Sand Strawberry	<i>Fragaria chiloensis</i>
Sedum	<i>Sedum spurium</i>
St. Johnswort, Creeping	<i>Hypericum calycinum</i>
Stonecrop	<i>Sedum spurium</i>
Verbena, Peruvian	<i>Verbena peruviana</i>
Vervain	<i>Verbena peruviana</i>
Vetch, Crown	<i>Vicia sativa</i>
Vinca or Greater Periwinkle	<i>Vinca major</i>
Wintercreeper	<i>Euonymus fortunei</i>

PERENNIALS	
Common Name	Scientific Name
Acacia	<i>Acacia redolens</i>
Asparagus	<i>Asparagus</i> spp.
Aster, New York	<i>Aster novi-belgii</i>
Aster, Stokes	<i>Stokesia laevis</i>
Astilbe (False Spirea)	<i>Astilbe</i> spp.
Babys Breath	<i>Gypsophila elegans</i>
Beard-Tongue	<i>Penstemon</i> spp.
Bellflower	<i>Campanula</i> spp.
Bird of Paradise	<i>Caesalpinia pulcherrima</i>
Black-eyed Susan	<i>Rudbeckia hirta</i>
Blanket Flower	<i>Gaillardia x grandiflora</i>
Bleeding Heart	<i>Dicentra spectabilis</i>
Butterfly Weed	<i>Asclepias tuberosa</i>
California Poppy	<i>Eschscholzia californica</i>
Calla Lily	<i>Zantedeschia aethiopica</i>
Canna, Common Garden	<i>Canna generalis 'Lucifer'</i>
Carex	<i>Carex</i> spp.
Cast Iron Plant	<i>Aspidistra elatior</i>
Chincherinchee	<i>Ornithogalum thyrsoides</i>
Clover, Crimson	<i>Trifolium incarnatum</i>
Columbine	<i>Aquilegia 'McKana Giant'</i>
Coreopsis	<i>Coreopsis lanceolata</i>
Crinum Lily	<i>Crinum</i> spp.

(Continued)

PERENNIALS	
Common Name	Scientific Name
Crocus	<i>Crocus</i> spp.
Daffodil	<i>Narcissus</i> spp.
Daylily	<i>Hemerocallis</i> spp.
False dragonhead	<i>Physostegia virginiana</i>
Fairy Duster	<i>Calliandra eriophylla</i>
Fern, Asparagus	<i>Asparagus officinalis</i>
Fern, Tree	<i>Asparagus virgatus</i>
Fern, Boston	<i>Nephrolepis exaltata</i>
Fern, Leatherleaf*	<i>Rumohra adiantiformis</i>
Fortnight Lily	<i>Moraea</i> spp.
Foxglove, Common	<i>Digitalis purpurea</i>
Freesia	<i>Freesia x hybrida</i>
Fuschia, Arizona	<i>Zauschneria californica</i>
Gayfeather	<i>Liatris</i> spp.
Gaillardia	<i>Gaillardia pulchella</i>
Geum	<i>Geum</i> spp.
Gladiolus	<i>Gladiolus</i> spp.
Heather, Dwarf	<i>Calluna vulgaris</i>
Hosta	<i>Hosta</i> spp.
Hyssop, Sunset	<i>Agastache rupestris</i>
Indian Blanket	<i>Gaillardia pulchella</i>
Lantana, Weeping	<i>Lantana montevidensis</i>
Leopards Bane	<i>Doronicum cordatum</i>
Lily	<i>Lilium</i> spp.
Liriope, Big Blue	<i>Liriope muscari</i>
Liriope, Creeping	<i>Liriope spicata</i>
Liriope, Variegated	<i>Liriope muscari</i>
Loosestrife, Garden	<i>Lysimachia punctata</i>
Moonbeam	<i>Coreopsis verticillata</i>
Montbretia	<i>Crocasmia crocosmiliflora</i>
Nightshade	<i>Solanum</i> spp.
Orchid, Peacock	<i>Acidanthera bicolor</i>
Oxeye Daisy	<i>Chrysanthemum leucanthemum</i>
Peony, Chinese	<i>Paeonia lactiflora</i>
Purple Coneflower	<i>Echinacea purpurea</i>
Purple Loosestrife	<i>Lythrum virgatum</i>
Rosemary	<i>Rosemarinus officinalis</i>
Ruscus, Israeli	<i>Ruscus hypophyllum</i>
Sage, Russian	<i>Perovskia atriplicifolia</i>
Sedge	<i>Carex</i> spp.
Shasta Daisy	<i>Chrysanthemum x superbum</i>
Sweet Flag	<i>Acorus calamus</i>
Tickseed	<i>Coreopsis lanceolata</i>
Texas Bluebonnet	<i>Lupinus texensis</i>
Tulip	<i>Tulipa</i> spp.
Twinspur	<i>Diasciascia barbaerae</i>
Wonder Flower	<i>Ornithogalum thyrsoides</i>
Yarrow	<i>Achillea millefolium</i>
Zephyr Lily	<i>Zephyranthes</i> spp.

\*Applications of this product to immature ferns (during periods of new growth of fronds) may result in some injury.

ORNAMENTAL GRASSES	
Common Name	Scientific Name
Beach Grass	<i>Ammophila breviligulata</i>
Fescue, Blue	<i>Festuca ovina</i>
Fescue, Sheep	<i>Festuca ovina</i>
Fountain Grass	<i>Pennisetum setaceum</i>
Pampas Grass	<i>Cortaderia selloana</i>
Reed Canary Grass	<i>Phalaris arundinacea</i>
Reed, Giant	<i>Arundo</i> spp.
Ribbon Grass	<i>Phalaris arundinacea</i>
Tufted Hair Grass	<i>Deschampsia caespitosa</i>

This product 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 specified rate. Treated plants should be evaluated for possible injury 1 to 2 months following treatment. 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.

## STORAGE AND DISPOSAL

**PROHIBITIONS:** Do not contaminate water, food or feed by storage and disposal. Open dumping is prohibited. Do not reuse empty containers.

**PESTICIDE STORAGE:** Store in a clean, dry place. Reseal opened bag by folding top down and securing. Do not store above 120°F.

**PESTICIDE DISPOSAL:** Do not contaminate water, food or feed by storage or 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 (flexible-bag-all weights):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Nonrefillable Container (rigid-fifty lbs. or less):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container one-fourth full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Nonrefillable Container (rigid-greater than fifty lbs.):** Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container one-fourth full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Refillable Container:** Refillable container. Refill this container with this product only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

## CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

### WARRANTY—CONDITIONS OF SALE

**OUR DIRECTIONS FOR USE** of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. To the extent consistent with applicable law, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

To the extent consistent with applicable law, in no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.

**NOTIFICATION**

**MAR 20 2009**

10/10