713-579

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

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

JUL 3 0 2009

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

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4

Dear Ms. Chan:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated July 14, 2009 for:

EPA Registration 19713-579

Drexel Pendiguard Turf 0.66%

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and finds that the label change(s) requested falls within the scope of PRN-2007-4. 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 <u>nonrefillable</u> 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 Nicole Williams of my staff at 703-308-5551.

Sincerely,

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

Please read instructions on reverse	<u>before complet</u>	ing form.		Form An	proved	. OMB No. 21	070-006	20010
0 504	ں ironmental	nited States				Registrat Amendrr Other	tion	OPP Identifier Number
	/	Applicatio	on for Pesti	cide - Sec	tion	1		
1. Company/Product Number 19713-579					oposed Classification			
4. Company/Product (Name) DREXEL PENDIGUARD TUP	RF 0.66%		25/Herbicide Branch					
5. Name and Address of Applicant Drexel Chemical Company P.O. Box 13327 Memphis, TN 38113-0327	(Include ZIP Cod	de)	6. Expedited Reveiw. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No					
Check if this is a ne	w address		Proc	uct Name		JU	<u>L 3 0 :</u>	2009
			Section	- 11				
 Amendment - Explain below. Resubmission in response to Agency letter dated ✓ Notification - Explain below. 			✓ Final printed labels in repsonse to Agency letter dated "Me Too" Application. Other - Explain below.					
Submission of revised label (579SP- Thank you.	0709*) per PR N	lotice 2007-4.	0					
A DA AND THE DESIGNATION DO			Section -					·····
Yes ✓ No If "Ye	Packaging Yes No	No. per container	Water Soluble Yes V No If "Yes" Package wgt	Packaging No. per containe)r	2. Туре of C	Metal Plastic Glass Paper	Specify)_polywoven bag
3. Location of Net Contents Informa			etail Container 5. Location of Label Directions 10, 25, 50, 2000 LBS. On the label		ons			
6. Manner in Which Label is Affixed to Product			raph glued	Othe	ir			·
] Stenci	Section -	IV				
1. Contact Point <i>(Complete items o</i>	lirectly below fo	or identificatio			if nec	essary, to pro	cess this	application.)
Name LUZ G CHAN			Title REGISTRATION MANAGER		-		e No. (Include Area Code)	
Certific I certify that the statements I have made on this form and I acknowledge that any knowlinglly false or misleading st both under applicable law.		Certifica this form and nisleading sta	all attachments	thereto are tru unishable by f	e, accu ine or i	urate and com imprisonment	olete, , or , , , , , , , , , , , , , , , , , , ,	6. Date Application Received (Stamped)
2. Signature Cuzla Chan	2009.07.14 15:16:08 -0) 5'00'	3. Title REGISTRATION	I MANAGER				
4. Typed Name LUZ G CHAN			5. Date Jl	ıly 14, 200	9	ı	ι ιι	ι ιιίι ιιι ι ιι

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Yellow - Applicant Copy



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July 14, 2009

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 per PR Notice 2007-4 by Notification DREXEL PENDIGUARD TURF 0.66% (EPA Reg. No. 19713-579)

Herewith:

- 1. Completed EPA Form 8570-1
- 2. One copy of the label (579SP-0709*) revised PR Notice 2007-4. The storage and disposal statements were adopted from Appendices A, B and C of PR Notice 2007-4.

The changes were highlighted 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.

Thank you.

Respectfully yours, FOR DREXEL CHEMICAL COMPANY

Cinz Go. Chan

Luz Chan Registration Manager



NOTIFICAT JUL 3 0 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-

0 66% 2.6-dinitrobenzenamine

2,0 0.0000000000000000000000000000000000	0.0070
OTHER INGREDIENTS:	99.34%
TOTAL	100 000/

(50 pounds of this product contains 0.33 pound of the active ingredient. Pendimethalin)

XX-XX-XX	
GUARANTEED ANALYSIS:	
Total Nitrogen (N) xx.xx%	
xx.xx% Ammoniacal Ntirogen	
xx.xx% Urea Nitrogen	
Available Phosphoric Acid (P2O5) xx.xx%	
Soluble Potash (K ₂ O) xx.xx%	
Sulfur (S), Free	
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:

IF IN EYES:

 Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.

FIRST AID

 Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

· Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING:

- 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.

IF SWALLOWED:

- · 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.

IF INHALED:

- · 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 cespons ble for pesticide regulation.





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.

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 Turforass 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.

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.

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, Com- mercial and other Non-residential	455	10.4	3.0

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	
GRAS	S WE	EDS	
Common Name	Sc	ientific Name	
Barnyardgrass	Ec	Echinochloa crus-galli	
Bluegrass, Annual		a annua	
Crabgrass		<i>jitaria</i> spp.	
Crowfootgrass [ctyloctenium aegyptium	
Foxtail, Giant		Setaria faberi	
Foxtail, Green		Setaria viridis	
Foxtail, Yellow		Setaria glauca	
Goosegrass		leusine indica	
		ottboellia exaltata	
Johnsongrass (from seed)		orghum halepense	
Junglerice		chinochloa colona	
Lovegrass (from seed)	Era	agrostis spp.	

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Itchgrass	Rottboellia exaltata
Johnsongrass (from seed)	Sorghum halepense
Junglerice	Echinochloa colona
Lovegrass (from seed)	Eragrostis spp.
Panicum, Browntop	Panicum fasciculatum
Panicum, Fall	Panicum dichotomiflorum
Panicum, Texas	Panicum texanum
Sandbur, Field	Cenchrus incertus
Signalgrass	Brachiaria platyphylla
Sprangletop, Mexican	Leptochloa uninervia
Sprangletop, Red	Leptochloa filiformis
Witchgrass	Panicum capillare
Woolly Cupgrass	Erochloa villosa

BROADLEAVED WEEDS			
Common Name	Scientific Name		
Burweed, Lawn	Soliva pterospenna		
Carpetweed	Mollugo verticillata		
Chickweed, Common	Stellaria media		
Chickweed, Mouseear	Cerastium vulgatum		
Clover, Hop	Tnfolium procumbens		
Cudweed	Gnaphalium spp.		
Evening primrose	Oenothera biennis		
Fiddleneck	Amsinckia intermedia		
Filaree	Erodium spp.		
Henbit	Lamium amplexicaule		
Knotweed, prostrate	Polygonum aviculare		
Kochia	Kochia scoparia		
Lambsquarters	Chenopodium album		
Pigweed	Amaranthus spp.		
Puncturevine	I FIDUIUS TERFESTRIS C C		
Purslane	Portulace oleracea		
Pusley, Florida	Richardia sçabra 🔍 🔍		
Rocket, London	Sisymbrium irio		
Shepherdspurse	Capsella buzsa-pastoris		
Smartweed, Pennsylvania	Polygonum pensylvanicum		
Speedwell, Corn	Veronica arvensis 🦿		
Spurge, Annual	Euphoi bia spp.		
Spurge, Prostrate	Euphorbie_numistrata		
Woodsorrel, Yellow	Oxalis stricta		
Velvetleaf (Buttonweed)	Abutilon theophrasti 🦣 🗧		

PENDIGUARD TURF 0.66% Page 2 of 7

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TURFGRASSES

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(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 Poa annua Barnyardgrass Fall panicum Oxalis Prostrate spurge Purslane Knotweed Chickweed Evening primrose Hop clover	All Turf Uses: 227 to 303 pounds per acre as the ini- tial 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	Residential** and Sod Turf Uses Only: 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 initally or for extended Goosegrass control.
	Goosegrass	Golf course, Commercial, Non-residen- tial Turf Uses Only: 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	All Turf Uses: 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 Poa annua Barnyardgrass Fall panicum Oxalis Prostrate spurge Purslane Knotweed Chickweed Evening primrose Hop clover	All Turf Uses (Non-Greens and Tees): 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.

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	All Turf Uses (Non-Greens and Tees): 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	All Turf Uses (Non-Greens and Tees): 227 to 303 pounds per acre.	Apply in late Summer or early Fall prior to weed germination.	
Warm Season Grasses Bermuda- grass St. Augustine- grass Bahiagrass Centipede- grass Zoysiagrass Tall fescue Buffalograss	Crabgrass Foxtail <i>Poa annua</i> Barnyardgrass Fall panicum <i>Oxalis</i> Prostrate spurge Purslane Knotweed Evening primrose Hop clover	Residential and Sod Farm Turf Uses Only: 227 to 303 pounds per acre prior to weed germination. Golf course, Commercial and Other Non-Residen- tial Turf Uses Only: 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	All Turf Uses (Non-Greens and Tees): 227 pounds per acre prior to weed germi- nation in the Spring. Apply a repeat applica- tion 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	All Turf Uses: 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 extanded Foa ancua control.	
 DO NOT exceed a maximum rate of 303 pounds per ecre per application for use on Residential Turfgrass and Sod farm Turfgrass. DO NOT exceed a maximum rate of 455 pounds per application (5) use o. 6 control (5) course, Turfgrass, Commercial or other Non-residential Turfgrass. Residential is defined as Turf in any residential site af control (5) course, well as home lawns, schools, parks and playgrounds. Not for use on Bentgrass or Poa annua greens or tees. 				

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-eved 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.

TRI	EES
Common Name	Scientific Name
Alder, European Black	Alnus glutinosa
Apple	Malus spp.
Arborvitae, American	Thuja occidentalis
Arbutus	Arbutus spp.
Ash, Red	Fraxinus pennsylvanica
Ash, White	Fraxinus americana
Aspen, Bigtooth	Populus grandidentata
Aspen, Quaking	Populus tremuloides
Basswood	Tilia spp.
Birch, European Weeping	Betula pendula
Birch, River	Betula nigra
Buckeye, Red	Aesculus pavia
Cedar, White	Thuja occidentails
Chamaecyparis, Boulevard	Chamaecyparis pisifera
Cherry, Black	Prunus serotina
Cherry, Choke	Prunus virginiana
Cherry, Kwanzan	Prunus serrulata
Cherry, Nanking	Prunus tomentosa
Cottonwood	Popuius deltoides
Crabappie	Malus spp.
Crepe Myrtle	Lagerstroemia indica
Cryptomeria, Japanese Cedar	Cryptomeria japonica Taxodium distichum
Cypress, Bald Cypress, Leyland	Cupressocyparis leylandii
Dogwood, Flowering	Cornus florida
Dogwood, Korean	Cornus kousa
Dogwood, Silky	Cornus amomum
Dogwood, Shrub	Cornus spp.
Elm	Ulmus japonica
Fir, Balsam	Abies balsamae
Fir, Douglas	Pseudotsuga menziesii
Fir, Fraser	Abies fraseri
Fir, White	Abies concolor
Franklinia	Franklinia spp.
Ginkgo	Ginkgo biloba
Gum, Black	Nyssa sylvatica
Gum, Sour	Nyssa sylvatica
Haw, Black	Viburnum prunifolium
Hawthorn	Crataegus spp.
Hemlock, Canada	Tsuga canadensis
Hemlock, Eastern	Tsuga canadensis
Holly, American	llex opaca
Honeylocust	Gleditsia triacanthos
Lilac, Common	Syringa vulgaris
Lilac, Japanese Tree	Syringa reticulata
Linden	Tilia spp.
Magnolia, Saucer	Magnolia soulangiana
Magnolia, Southern	Magnolia grandiflora
Magnolia, Star	Magnolia stellata
Maidenhair Tree	Ginkgo biloba
Maple, Paper-bark	Acer griseum
Maple, Norway	Acer platanoides
Maple, Japanese	Acel painatum
Maple, Red	Acer rubrum
Maple, Sugar	Acer sacchárum
Nannyberry, Rusty	Viburi un su sidulum cocco
Oak, Chinquapin Oak, Live	Quercu's mu shlenbërgii Quercu's virginiana
	Quercus virginiaria , , , , , , , , , , , , , , , , , , ,
	- (Jon Javed)

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Common Name	Scientific Name
Oak, Pin	Quercus palustris
Oak, Red	Quercus rubra
Oak, Swamp Chestnut	Quercus michauxii
Oak, Water	Quercus nigra
Oak, White	Quercus alba
Oak, Willow	Quercus phellos
Olive	Olea europaea
Palm, Date	Phoenix spp.
Palm, Fan	Washingtonia spp.
Palm, Pindo	Butia spp.
Palm, Washington	Washingtonia spp.
Peach	Prunus persica
Pear, Bradford	Pyrus calleryana 'Bradford'
Pecan	Carya illinoensis
Pine. Austrian	Pinus nigra
Pine, Italian Stone	Pinus nigra
Pine, Loblolly	Pinus pinea Pinus taeda
Pine, Lobioliy Pine, Monterey	Pinus taeda Pinus radiata
Pine, Red	Pinus resinosa
Pine, Scotch	Pinus sylvestris
Pine, Virginia	Pinus virginiana
Pine, White	Pinus strobus
Plum, Purple Leaf	Prunus cerasifera
Poplar, Black	Populus nigra
Redcedar, Eastern	Juniperus virginiana
Redcedar, Western	Thuja plicata
Red Ironbark	Eucalyptus sideroxylon 'Rose
Redwood, Dawn	Metasequoia glyptostroboide:
Sequoia, Giant	Sequoiadendron giganteum
Serviceberry	Arnelanchier laevis
Sourwood	Oxydendrum arboreum
Spruce, Colorado Blue	Picea pungens
Spruce, Dwarf Alberta	Picea glauca 'albertiana'
Spruce, Norway	Picea abies
Spruce, White	Picea glauca
Sweetgum	Liquidambar styraciflua
Sycamore	Plantanus occidentalis
Trachycarpus	Trachycarpus spp.
Tulip tree	Liriodendron tulipifera
Walnut, Black	Juglans nigra
	Salix babyionica
Willow, Weeping Yellowwood	Salix babylonica Cladrastis lutea

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

SHF	RUBS
Common Name	Scientific Name
Euonymus, Winged	Euonymus alata
Firethorn	Pyracantha coccinea
Forsythia, Border	Forsythia intermedia
Fragrant Olive	Osmanthus fraorans
Fuschia, California	Zauschineria californica
Gardenia	Gardenia jasminoides
Hawthorne, Indian	Raphiolepis indica
Hibiscus	Hibiscus svriacus
Holly, Chinese	llex cornuta
Holly, Japanese	llex crenata
Holly, Fosters	llex attenuata 'Fosteri'
Holly, Savannah	llex attenuata
Holly, Yaupon	llex vomitoria
Honeysuckle, Bush	Diervilla Ionicera
Hopseed Bush	Dodonaea viscosa
Hopbush	Dodonaea viscosa
Hydrangea	Hydrangea macrophylla
Juniper	Juniperus spp.
Juniper, Chinese	Juniperus chinesis v. pfitzer
Juniper, Shore	Juniperus conferta
Juniper, Trailing	Juniperus horizontalis
Laurel, Cherry	Prunus laurocerasus
Laurel, Mountain	Kalmia latifolia
Laurel, Otto Luyken	Prunus laurocerasus
Laurel, Schipka	Prunus schipkanesis
Laurustinus	Viburnum tinus
Lavender, English	Lavandula angustifolia
Leucothoe	Leucothoe fontanesiana
Leucothoe, Coast	Leucothoe axillaris
Lilac, Cut-leaf	Syringa laciniata
Lily-of-the-Nile	Agapanthus africanus
Mahonia	Mahonia aquifolium
Mock Orange	Pittosporum tobira
Myrtle, Compact	Myrtus communis
Myrtle, Wax	Myrica cerifera
Nandina	Nandina domestica
Oleander	Nerium oleander
Oregon Grape	Mahonia aquifolium
Osmanthus	Osmanthus fragrans
Palm, European Fan	Chamaerops humilis
Palm, Mediterranean Fan	Chamaerops spp.
Phlox, Prickly	Leptodactylon californicum
Photinia, Fraser	Photinia x Fraseri
Pieris, Japanese	Pieris japonica
Pine, Mugo	Pinus mugo
Plum, Natal	Carissa grandiflora
Privet, California	Ligustrum ovalifolium
Privet, Glossy	Ligustrum lucidum
Privet, Variegated	Ligustrum sinensis
Privet, Waxleaf	Ligustrum japonicum
Pyracantha	Pyracantha coccinea
Quince, Flowering	Chaenomeles japonica
Ranger, Texas	Leucophyllum frutescens
Redroot	Ceanothus spp.
Rhododendron	Rhododendron spp.
Robira	Pittosporum tobira
Rose	Rosa spp.
Spice Plant	Illicium parviflorum
Spiraea	Spiraea vanhouttei
Spiraea, Anthony Waterer	Spiraea x bumalda
Spiraea, Japanese	Spiraea joponica
Sweet Bay	Laurus nobilis
Trumpet Bush	Tecoma stans
Verbena, Lemon	Aloysia triphylla
Viburnum	Vibųrnunį sựspensum
Vitex	Vites spp. c
Weigela	Weigela florida
Wild Lilac	Ceanoໂhus ຽpp. '
Wisteria	Wisteriacspp.
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SHRUBS		
Common Name	Scientific Name	
Xylosma	Xylosma congestum	
Yellowbells	Tecoma stans	
Yew	Taxus media	
Yew, Japanese	Taxus cuspidata	
Yew, Southern	Podocarpus macrophyllus	
Yucca, Adam's Needle	Yucca filamentosa	
Yucca, Weeping	Yucca pendula	
GROUND COVERS		
Common Name	Scientific Name	
Ajuga	Ajuga reptans	
Baby Sun Rose	Aptenia cordifolia	
Beach Strawberry	Fragaria chiloensis	
Capeweed	Arctotheca calendula	
Cinquefoil, Spring	Potentilla verna	
Coyotebrush, Dwarf	Baccharis pitularis	
Daisy, Trailing African	Osteospermum fruticosum	
Dymondia	Dymondia margaretae	
Gazania	Gazania splendens	
Iceplant, Large Leaf	Carpobrotus edulis	
Ivy, English	Hedera helix	
Ivy, Geranium	Pelargonium peltatum	
Jasmine, Asiatic	Trachelospermum asiaticum	
Jasmine, Primrose	Jasminum mesnyi	
Jessamine, Carolina	Gelsemium sempervirens	
Manzanita, Bearberry	Arctostaphylos uva-ursi	
Miscanthus	Miscanthus spp.	
Mondograss	Ophiopogon japonica	
Morninglory	Convolvulus spp.	
Myoporum	Myoporum parviflolium	
Pachysandra	Pachysandra terminalis	
Potentilla	Potentilla fruticosa	
Periwinkle, Common	Vinca minor	
Red Apple	Aptenia cordifolia	
Rosemary	Rosemarinus officinalis	
Rose-Of-Sharon	Hypericum calycinum	
Sand Strawberry	Fragaria chiloensis	
Sedum	Sedum spurium	
St. Johnswort, Creeping	Hypericum calycinum	
Stonecrop	Sedum spurium	
Verbena, Peruvian	Verbena peruviana	
Vervain	Verbena peruviana	
Vetch, Crown	Vicia sativa	
Vinca or Greater Periwinkle	Vinca major	
Wintercreeper	Euonymous fortunei	

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

Common Name 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 Lirope, 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 Texas Bluebonnet Tulip Twinspur Wonder Flower Yarrow Zephyr Lily may result in some injury.

PERENNIALS Scientific Name 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 Crocosmia crocosmiiflora 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 Lupinus texenis Tulipa spp. Diasciascia barbaerae Ornithogalum thyrsoides Achillea millefolium Zephyranthes spp. *Applications of this product to immature ferns (during periods of new growth of fronds)

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

This product may be used on plant species optilisted on this late. 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 treatments EVER ASSUMES RESPONSIBILITY FOR ANY CROP DAMAGE OR OTHER LIABILITY. Do not treat plants justice plants for food or feed. OTHER LIABILITY. Do not treat plants grown for food or feed. Do

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STORAGE AND DISPOSAL

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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 or 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. **For Residential/Household Use:**

PESTICIDE DISPOSAL: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. If empty, place in trash or offer for recycling if available. If partially filled, call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LI-ABILITY

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.



