

241-421

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

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Jeffrey Birk, Ph.D. BASF Corporation 26 Davis Dr.

Research Triangle Park, NC 27709

APR 11. 2013

Subject:

Notifications; Per PR-Notice 98-10

Pendulum 0.66% Plus Fertilizer
Pendulum 1.15% Plus Fertilizer
Pendulum 0.5% Plus Fertilizer
Pendulum 0.86% Plus Fertilizer

Dear Dr. Birk:

The Agency is in receipt of your Applications for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated April 9, 2013 for the products referenced above. The Registration Division (RD) has conducted a review of these requests for applicability under PRN 98-10 and finds that the actions requested fall within the scope of PRN 98-10. The labels submitted with the applications have been stamped "Notification" and will be placed in our records.

If you have any questions regarding this letter, please contact me at 703 306-0415 or davis.kable@epa.gov.

Sincerely.

Kable Bo Davis Product Manager 25 Herbicide Branch

Registration Division (7505P)

Please read instructions	on reverse before complet	ing form.			Form Apr	<u>prove</u> d	. OMB No.	<u> 2070-</u> 0	060. Approval expires 2-28-95
\$EPA	Environmental	nited States Protections	_	jency		✓	Registra Amend Other	ation	OPP Identifier Number
		Applicati	on for	Pesticio	le - Seci	tion	l		
1. Company/Product Num 241-421	ber			2. EPA F Kable I	roduct Man Davis	ager		3.	Proposed Classification None Restricted
4. Company/Product (Nar Pendulum 0.66% Plu		·		PM# 25					
BASF 26 Davis Drive Research Triangle	Applicant <i>(Include ZIP Cod</i> Park, NC 27709 his is a new address	de)		(b)(i), m to: EPA R		s sim	ilar or iden		th FIFRA Section 3(c)(3) composition and labeling
			Se	ction - I					
Amendment - Expl	esponse to Agency letter	dated		_ [] _ []	Final printed Agency lette "Me Too" A Other - Expl	er date Applica	ed tion.	NOT	FICATION 2 1 1 2013
provisions of PR Notice 98 formula of this product. It notification is not consiste	0.66% Plus Fertilizer (241-4 3-10 and EPA regulations a understand that it is a violat nt with violation of FIFRA at 47-2622 (phone), 919-547-2	421) in respor t 40 CFR 152 ion of 18 U.S. nd I may be s	ise to em .46, and i C. Sec. 1 ubject to by Email a	ail request fo no other char 1001 to willfu enforcement at jeffrey.birk	nges have be ly make any action and p @basf.com	en ma false s	de to the lab tatement to l	eling or EPA. I fu	tification is consistent with the the confidential statement of urther understand that if this and 14 of FIFRA.
			Sec	ction - III					
1. Material This Product V	Vill Be Packaged In:								
Child-Resistant Packaging Yes No * Certification must be submitted	Unit Packaging Yes No If "Yes" Unit Packaging wgt.	No. per container	If "Ye	r Soluble Pa Yes No as" age wgt	No. per container		2. Type of	Metal Plasti Glass Paper	c
3. Location of Net Conten	ts Information Container	4. Size(s) Re	tail Cont	einer		5. Loc	ation of Lab	el Direc	tions
6. Manner in Which Label	is Affixed to Product	Lithog Paper Stenc	reph glued led		Other				
	<u> </u>			tion - IV					
1. Contact Point (Comple	te items directly below fo	r identificatio	n of indi	vidual to be	contacted, i	f nace	ssary, to pre	ocess th	is application.)
Name Jeffrey H. Birk			Title Regula	itory Manag	er		·	Telepho 919-54	one No. (Include Area Code) 7-2622
	tements I have made on t any knowlinglly false or n le law.		all attac						6. Dete Application Received (Stamped)
2. Signatue	1/1 bed		3. Title Regulat	tory Managei					
T. Typed Name Jeffrey H. Birk	•		5. Date	April	9, 2013				



The Chemical Company

April 9, 2013

U.S. Environmental Protection Agency Office of Pesticide Programs (H-7505 P) Document Processing Desk 7504P (NOTIF) One Potomac Yard 2777 S. Crystal Drive Arlington, VA 22202 Attn: Mr. Kable Davis (PM 25)

RF.

Pendulum® 0.66% Plus Fertilizer (EPA Reg. No. 241-421)

Label Notification

Dear Mr. Davis:

BASF is hereby submitting a label notification for Pendulum 0.66% Plus Fertilizer (241-421) in response to your email from March 14, 2013 deleting the following inappropriate statement from page 18.

Pendulum 0.66% Plus Fertilizer 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 1-2 months following treatment for possible injury. TO THE FULLEST EXTENT PERMITTED BY LAW, THE USER ASSUMES RESPONSIBILITY FOR ANY CROP DAMAGE OR OTHER LIABILITY.

Enclosed please find:

- Application form 8570-1
- Email dated March 14, 2013
- Pendulum 0.66% Plus Fertilizer label.

No PRIA fee is required for this notification.

Thank you for your assistance with this matter. If you should have any questions, please feel free to call me at (919) 547-2622.

Regards

Jeffrey H. Birk, Ph.D. Regulatory Manager

Phone 919-547-2622

Fax: 919-547-2850

Email: jeffrey.birk@basf.com

APR 11 2013

Group 3 Herbicide

Pendulum® 0.66% Plus Fertilizer Preemergence Weed Control

0.66% pendimethalin + X-X-X Fertilizer

FOR USE ON TURFGRASSES AND ESTABLISHED LANDSCAPE ORNAMENTALS NOT FOR USE IN ORGANIC CROP AND FOOD PRODUCTION IN CALIFORNIA

Active Ingredient: pendimethalin: N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine	0.66%
Other Ingredients:	99.34%
Other Ingredients: Total:	
EPA Reg. No. 241-421	EPA Est. No.
GUARANTEED ANALYSIS	
Total Nitrogen (N)	X.X%
X.X % Urea Nitrogen	
Available Phosphoric Acid (P ₂ O ₅)	
Potassium Sulfate (K ₂ SO ₄)	X.X%
Derived from: Urea, Diammonium Phosphate, and Sulfate 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 the 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 going for treatment.

In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).

See inside for additional First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty, and state-specific crop and/or use site restrictions.

Net Contents:

BASF Corporation 26 Davis Drive Research Triangle Park, NC 27709



	FIRST AID
If swallowed	 Call a poison control center or doctor immediately for treatment advice. Have a person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center or doctor. DO NOT give anything by mouth to an unconscious person.
lf 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 in eyes	 Hold eyes 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 eyes. Call a poison control center or doctor for advice.
lf inhaled	 Move person to fresh air. If person is not breathing, call 911 or ambulance; then give artificial respiration, preferably by mouth to mouth if possible. Call a poison control center or doctor for advice.
	HOTLINE NUMBER
	iner or label with you when calling a poison control center or doctor or going for contact BASF Corporation 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 dust.

Personal Protective Equipment (PPE)

Some materials that are chemically 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 material, such as butyl rubber ≥14 mils, nitrile rubber ≥14 mils, or neoprene rubber ≥14 mils
- · Shoes plus socks
- Protective eyewear

1-800-832-HELP (4357)

Follow manufacturer's instructions for cleaning and 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:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put 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 or rinsate.

For Florida Only:

- DO NOT apply near water, storm drains or drainage ditches.
- DO NOT apply if heavy rain is expected.
- Apply only to lawn, and sweep any product that lands on the driveway, sidewalk or street; back onto lawn.

Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

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

BASF Corporation 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 Pendulum[®] 0.66% Plus Fertilizer in greenhouses, shadehouses or other enclosed structures.

NOT FOR USE on grass grown for commercial seed production.

DO NOT apply this product through any irrigation system. Keep children and pets out of treated area until dust has settled.

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

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.

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 material, such as butyl rubber ≥14 mils, nitrile rubber ≥14 mils, or neoprene rubber ≥14 mils
- · Shoes plus socks

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NONAGRICULTURAL 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

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

Pesticide Storage

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

Pesticide Disposal

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

Container Handling

(for paper or plastic bags)

Nonrefillable Container. DO NOT reuse or refill this container. After completely emptying container into application equipment, dispose of empty bag in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Observe all cautions and limitations on this label and the labels of products used in combination with Pendulum® 0.66% Plus Fertilizer. The use of Pendulum 0.66% Plus Fertilizer not consistent with this label can result in injury to crops, animals, or persons. Keep containers closed to avoid spills and contamination.

Product Information

Pendulum 0.66% Plus Fertilizer is a combination preemergence 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.

Pendulum 0.66% Plus Fertilizer can be used around established ornamentals in the landscape and in established wildflower plantings. Pendulum 0.66% Plus Fertilizer may be used for hardwood and conifer regeneration on conservation reserve program land or similar areas.

Pendulum 0.66% Plus Fertilizer 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 blands of these grasses.

Pendulum 0.66% Plus Fertilizer 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.

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Application Instructions

Apply product uniformly at the specified rate using a properly calibrated spreader. The efficacy of **Pendulum® 0.66% Plus Fertilizer** will be improved if the application is followed by 1/2 inch of rainfall or its equivalent in sprinkler irrigation. This will remove the product from the turfgrass foliage and establish a preemergence herbicide barrier in the soil. **If Pendulum 0.66% Plus Fertilizer** 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.

Pendulum 0.66% Plus Fertilizer can be applied before or after postemergence herbicides used to control emerged weeds in turfgrasses. For annual grass control, applications can be made with **Segment® herbicide**, **Acclaim Extra® herbicide**, or MSMA-containing products to control emerged weeds. Broadleaf weeds can be controlled using **Trimec® herbicide**; **Three-Way™ herbicide**; 2,4-D; and other similar products.

Applied according to label directions and under normal growing conditions, **Pendulum 0.66% Plus Fertilizer** will not cause injury to desirable plants. Overapplication 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 **Pendulum 0.66% Plus Fertilizer**.

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 specified. Avoid application when winds may cause drift.

Spreader Settings

Spreader Type	<u>Settings</u>
X	XXX
Υ	xxx
Z	XXX

Maximum Application Rate by Use Site

Use Site	lbs Product/A	lbs Product/1000 ft ²	lbs a.i./A
Residential and Sod Farm Turf	303	6.8	2.0
Golf Course, Commercial and other Non-residential Turf Sites	455	10.2	3.0

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

Florida Specific Requirements for Fertilizer Use

For applications to sports turf at golf courses, parks and athletic fields:

DO NOT exceed fertilizer rates recommended in the document titled SL 191, "Recommendations for N, P, K and Mg for Golf Course and Athletic Field Fertilization Based on Mehlich I Extractant" dated and March 2007. Copies may be downloaded from http://edi.ifas.ufl.edu/SS404.

Follow "Best Management Practices for the Enhancement of Environmental Quality on Florida Golf Courses," published by the Florida Department of Environmental Protection, dated January 2007. Copies may be downloaded from http://www.dep.state.fl.us/water/nonpoint/pubs.htm.

For all fertilizer uses other than as a specialty fertilizer on urban turf:

DO NOT exceed rates recommended in the document titled Best Management Practices for Protection of Water Resources in Florida, June 2002, Florida Green Industries. This document may be downloaded from http://www.dep.state.fl.us/water/nonpoint/docs/nonpoint/BMP_Book.

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Weeds Controlled

Pendulum® 0.66% Plus Fertilizer provides preemergence control of weed species listed. Applications can be made around and over the top of ornamentals and to sites listed on this label.

Grasses	Cont	trol	hal
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Grasses Controlled			
Common Name	Scientific Name		
Barnyardgrass	Echinochloa crus-galli	_	
Bluegrass, Annual	Poa annua		
Crabgrass	Digitaria spp.		
Crowfootgrass	Dactyloctenium aegyptium		
Foxtail, Giant	Setaria faberi		
Foxtail, Green	Setaria viridis		
Foxtail, Yellow	Setaria glauca		
Goosegrass	Eleusine indica		
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	Eriochloa villosa		

Broadleaf Weeds Controlled

Broadical Weeds Controlled	
Common Name	Scientific Name
Burweed, Lawn	Soliva pterosperma
Carpetweed	Mollugo verticillata
Chickweed, Common	Stellaria media
Chickweed, Mouseear	Cerastium vulgatum
Clover, Hop	Trifolium 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	Tribulus terrestris
Purslane	Portulaca oleracea
Pusley, Florida	Richardia scabra
Rocket, London	Sisymbrium irio
Shepherdspurse	Capsella bursa-pastoris
Smartweed, Pennsylvania	Polygonum pensylvanicum
Speedwell, Corn	Veronica arvensis
Spurge, Annual	Euphorbia spp.
Spurge, Prostrate	Chamaesyce humistrata
Woodsorrel, Yellow	Oxalis stricta
Velvetleaf (Buttonweed)	Abutilon theophrasti

Turfgrass

Residential, Golf Course, Commercial and other Non-residential Sites

Application Rates For Preemergence Weed Control¹

Turfgrass Species	Weed	Pendulum [®] 0.66% Plus Fertilizer Rate	Comment
Cool-season Grass	 		
Bluegrass, Kentucky Fescue, fine Fescue, tall Ryegrass, perennial	crabgrass foxtail Poa annua barnyardgrass fall panicum oxalis prostrate spurge purslane knotweed evening primrose hop clover	All Turf Uses 227-303 lbs/acre as the initial application before weed germination in the spring	Apply a repeat application of 152-227 lbs/acre after 5-8 weeks for extended control or where heavy weed infestations are expected.
	goosegrass	Residential and Sod Farm Turf Uses Only ² 227-303 lbs/acre in the spring before weed germination Golf Course, Commercial and other Non-residential Turf Sites 227-455 lbs/acre in the spring before weed germination	Apply a repeat application of 152 lbs/acre after 5-8 weeks if the lower rate was used initially or for extended goosegrass control.
.	cudweed Poa annua chickweed lawn burweed henbit corn speedwell	All Turf Uses 227-303 lbs/acre	Apply in late summer or early fall before weed germination. Apply a repeat application of 227-303 lbs/acre after 5-8 weeks for extended Poa annuació control.

Application Rates For Preemergence Weed Control¹ (continued)

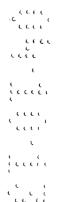
Turfgrass Species	Weed	Pendulum [®] 0.66% Plus Fertilizer Rate	Comment
Cool-season Grass (co	ontinued)	,	
Bentgrass or established <i>Poa annua³</i> (1/2 inch or taller)	crabgrass foxtail Poa annua barnyardgrass fall panicum oxalis prostrate spurge purslane knotweed evening primrose hop clover	All Turf Uses (Non-greens and Tees) 227 lbs/acre in the spring before weed germination	Apply a repeat application of 152-227 lbs/acre after 5-8 weeks where heavy weed infestations are expected.
	goosegrass	All Turf Uses (Non-greens and Tees) 227 lbs/acre in the spring before weed germination	Apply a repeat application of 227 lbs/acre after 5-8 weeks for extended control.
	cudweed Poa annua chickweed lawn burweed henbit corn speedwell	All Turf Uses (Non-greens and Tees) 227-303 lbs/acre	Apply in late summer or early fall before weed germination.

Application Rates For Preemergence Weed Control¹(continued)

Turfgrass Species	Weed	Pendulum [®] 0.66% Plus Fertilizer Rate	Comment
Warm-season Grass		,	
Bahiagrass Bermudagrass Buffalograss Centipedegrass Fescue, tall St. Augustinegrass Zoysiagrass	crabgrass foxtail Poa annua barnyardgrass fall panicum oxalis prostrate spurge purslane knotweed evening primrose hop clover	Residential and Sod Farm Turf Uses Only ² 227-303 lbs/acre in the spring before weed germination Golf Course, Commerical and other Non-residential Turf Sites 227-455 lbs/acre in the spring before weed germination	Apply a repeat application of 152-227 lbs/acre after 5-8 weeks if necessary.
	goosegrass	All Turf Uses (Non-greens and Tees) 227 lbs/acre before weed germination in the spring. Apply a repeat application of 227-303 lbs/acre after 5-8 weeks.	An additional application of 227 lbs/acre may be applied for extended goosegrass control 8 weeks after the second application.
	cudweed Poa annua chickweed lawn burweed henbit corn speedwell	All Turf Uses 227-303 lbs/acre	Apply in late summer or early fall before weed germination. Apply a repeat application of 227-303 lbs/acre after 5-8 weeks for extended <i>Poa annua</i> control.

¹ DO NOT exceed a maximum rate of 303 pounds **per acre per application** for use on residential turfgrass and sod farm turfgrass.

³Not for use on bentgrass or *Poa annua* greens or tees.



DO NOT exceed a maximum rate of 455 pounds **per acre per application** for use on golf course turfgrass, commercial or other non-residential turfgrass sites.

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

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Turfgrass Precautions

Use on well-established turfgrass with a dense and uniform stand. On newly planted areas, application should not be made until turfgrass has filled in and been mowed at least 4 times. On turf thinned or damaged because of winter injury, excessive moisture, etc., allow for turf recovery before making an application.

Applications made to overseeded warm-season turfgrass 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 **Pendulum**[®] **0.66% Plus Fertilizer** 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 control than those found in fine turf. **Pendulum 0.66% Plus Fertilizer** will control annual grasses and broadleaf weeds listed for cool-season and warm-season grass, and the following weeds that might germinate in established grass 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. Use a postemergence herbicide such as 2,4-D; MCPA; MSMA; or similar product to control established weeds.

Landscape and Grounds Maintenance

Pendulum 0.66% Plus Fertilizer 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 not 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 before an application of Pendulum 0.66% Plus Fertilizer. Pendulum 0.66% Plus Fertilizer may be used before or after application of herbicides registered for postemergence use (i.e. Segment® herbicide, Roundup PRO® herbicide or Finale® herbicide) for the control of established weeds.

DO NOT apply sprays containing Roundup[®] herbicide or Finale over the top of desirable plants, and follow label restrictions. A Pendulum 0.66% Plus Fertilizer treatment may be followed by any registered herbicide to control weeds not listed on the Pendulum 0.66% Plus Fertilizer label.

Ornamental Bulbs

Pendulum 0.66% Plus Fertilizer may be applied for control of susceptible annual weeds in ornamental bulbs listed on the label (crocus, daffodil (narcissus), gladiolus, tulip, etc.). Apply Pendulum 0.66% Plus Fertilizer before, during or after bulb emergence. If weeds have already germinated, use a labeled postemergence herbicide to control emerged weeds.

Wildflowers

Pendulum 0.66% Plus Fertilizer 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.).

Pendulum 0.66% Plus Fertilizer may be applied to established perennial wildflowers before emergence of weeds or wildflowers. For wildflowers being established from seed, apply Pendulum 0.66% Plus Fertilizer after wildflowers have emerged but before weed germination. If weeds have already germinated, use a labeled postemergence product to control emerged weeds.

Because of the diversity of species and varieties which exist in areas where wildflowers are grown, the response to **Pendulum® 0.66% Plus Fertilizer** may vary greatly. Carefully test desirable species to determine if area-wide applications can be made.

Ornamental Precautions

Hawthorn

Apply **Pendulum 0.66% Plus Fertilizer** 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 **Pendulum 0.66% Plus Fertilizer** 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 **Pendulum 0.66% Plus Fertilizer** or injury may occur.

Tolerant Ornamental Species

Pendulum 0.66% Plus Fertilizer is safe around and over the top of the established plants listed below.

Trees	• •	
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 occidentalis	
Chamaecyparis, Boulevard	Chamaecyparis pisifera	
Cherry, Black	Prunus serotina	
Cherry, Choke	Prunus virginiana	
Cherry, Kwanzan	Prunus serrulata	
Cherry, Nanking	Prunus tomentosa	
Cottonwood	Populus deltoides	
Crabapple	<i>Malus</i> spp.	
Crape Myrtle	Lagerstroemia indica	
Cryptomeria, Japanese Cedar	Cryptomeria japonica	
Cypress, Bald	Taxodium distichum	
Cypress, Leyland	Cupressocyparis leylandii	
Dogwood, Flowering	Cornus florida	
Dogwood, Korean	Cornus kousa	
Dogwood, Shrub	Cornus spp.	
Dogwood, Silky	Cornus amomum	
Elm .	Ulmus japonica	
Fir, Balsam	Abies balsamae	
Fir, Douglas	Pseudotsuga menziesii	
Fir, Fraser	Abies fraseri	
Fir, White	Abies concolor	
Franklinia	Franklinia spn	
Ginkgo	Ginkgo biloba	
Gum, Black	Nucco eulvatica	
Gum, Sour	Alice a cultivation	
Haw, Black	Vihurnum prunifolium	
it allows	vibarrium pramionam (

(continued)

Crataegus spp.

Tolerant Ornamental Species (continued)

	Tolerant Offiamental Sp	secies (co	onunuea)
Trees (continued)		•	
Common Name			Scientific Name
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			Acer palmatum
Maple, Red			Acer rubrum
Maple, Sugar_			Acer saccharum
Nannyberry, Rusty			Vibumum rufidulum
Oak, Chinquapin			Quercus muehlenbergii
Oak, Live			Quercus virginiana
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 Peach			Washingtonia spp.
			Prunus persica
Pear, Bradford Pecan			Pyrus calleryana 'Bradford'
Pine, Austrian			Carya illinoensis
Pine, Austrian Pine, Italian Stone			Pinus nigra
•	•		Pinus pinea
Pine, Loblolly			Pinus taeda
Pine, Monterey			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 Redcedar, Eastern			Populus nigra
Redcedar, Western			Juniperus virginiana Thuja plicata
Red Ironbark			Fuestyntus siderevylen 'Penes'
Redwood, Dawn			Eucalyptus sideroxylon 'Rosea'
Sequoia, Giant			Metasequoia glyptostroboides
Sequola, Glant Serviceberry			Sequoiadendron giganteum Amelanchier laevis
Sourwood			
	·		Oxydendrum arboreum
Spruce, Colorado Blue			Picea pungens
Spruce, Dwarf Alberta			Picea glauca 'Albertiana'
Spruce, Norway			Picea abies

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Tolerant Orna	mental Species (continued)
Trees (continued)	
Common Name	Scientific Name
Spruce, White	Picea glauca
Sweetgum	Liquidambar styraciflua
Sycamore	Platanus occidentalis
Trachycarpus	Trachycarpus spp.
Tulip tree	Liriodendron tulipifera
Walnut, Black	Juglans nigra
Willow, Weeping	Salix babylonica
Yellowwood	Cladrastis lutea
Shrubs	
Common Name	Scientific Name
Abelia, Glossy	Abelia grandiflora
Aucuba, Gold	Aucuba japonica
Azalea	Rhododendron spp.
Bamboo, Heavenly	Nandina domestica
Barberry	Berberis gladwynensis
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
Euonymus, Winged	Euonymus alata
Firethorn	Pyracantha coccinea
Forsythia, Border	Forsythia intermedia
Fragrant Olive	
Fuchsia, California	Osmanthus fragrans Zauschineria californica
Gardenia	Gardenia jasminoides
Hawthorne, Indian	Raphiolepis indica
Hibiscus	Hibiscus syriacus
Holly, Chinese	llex cornuta
Holly, Fosters	lloy oftenuete 'Easteri'
	llex crenata
Holly, Japanese	lloy oftenuete
Holly, Savannah	llex attenuata
Holly, Yaupon	llex vomitoria

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Tolerant Ornamental Species (continued)

Shrubs (continued) Common Name Common Name Diervilla Ionicera Honeysuckle, Bush Hopesed Bush Hopbush Hopbush Hopbush Hydrangea Juniper Juniper, Chinese Juniper, Chinese Juniper, Trailing Juniper, Shore Juniper, Trailing Juniper, Shore Juniper,	I olerant Ornan	nental Species (continued)
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Hopbush Hydrangea Juniper, Chinese Juniper, Chinese Juniper, Shore Juniper, Trailing Juniper, Trailing Laurel, Cherry Laurel, Mountain Laurel, Cherry Laurel, Mountain Laurel, Schipka Laurel, Schipka Laurel, Schipka Laurel, Schipka Laurel, Cherry Laurel, Cherry Laurel, Oto Luyken Laurel, Schipka Laurel, Cherry Laurel, Oto Luyken Laurel, Schipka Laurel, Schipka Laurel, Schipka Laurel, Schipka Laurel, Oto Luyken Laurel, Schipka L	Hopseed Bush	Dodonaea viscosa
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(continued)

Tolerant Ornamental Species (continued)

0 1 416 11
Scientific Name
Weigela florida
Ceanothus spp.
Wisteria spp.
Xylosma congestum
Tecoma stans
Taxus media
Taxus cuspidata
Podocarpus macrophyllus
Yucca filamentosa
Yucca pendula

Ground Covers

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
lvy, 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
Morningglory	Convolvulus spp.
Myoporum	Myoporum parviflolium
Pachysandra	Pachysandra terminalis
Periwinkle, Common	Vinca minor
Potentilla	Potentilla fruticosa
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	Sedani Spanani
Verbena, Peruvian	verbena peruviana
Vervain	verbena peruviana
Vetch, Crown	vicia saliva
Vinca or Greater Periwinkle	Vinca major
Wintercreeper	Euonymous fortunei

Tolerant Ornamental Species (continued).

Perennials

Common Name Scientific Name Acacia Acacia redolens Asparagus Asparagus spp. Aster, New York Aster novi-belgii Stokesia laevis Aster, Stokes Astilibe (False Spirea) Astilibe spp. Babys Breath Gypsophila elegans Beard-tongue Penstemon spp. Bellflower 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 Lilv Zantedeschia aethiopica Canna, Common Garden Canna generalis 'Lucifer' Carex Carex spp. Cast Iron plant Aspidistra elatior Ornithogalum thyrsoides Chincherinchee Clover, Crimson Trifolium incarnatum Columbine Aquilegia 'McKana Giant' Coreopsis Coreopsis lanceolata Crinum Lily Crinum spp. Crocus Crocus spp. Daffodil Narcissus spp. Daylily Hemerocallis spp. False dragonhead Physostegia virginiana Calliandra eriophylla Fairy Duster Fern, Asparagus Asparagus officinalis Nephrolepis exaltata Fern, Boston Fern. Leatherleaf* Rumohra adiantiformis Fern. Tree Asparagus virgatus Fortnight Lily Moraea spp. Digitalis purpurea Foxglove, Common Freesia x hybrida Freesia Fuchsia, Arizona Zauschneria californica Gayfeather Liatris spp. Gaillardia Gaillardia pulchella Geum Geum spp. Gladiolus Gladiolus spp. Heather, Dwarf Calluna vulgaris Hosta Hosta spp. Agastache rupestris Hyssop, Sunset Indian Blanket Gaillardia pulchella Lantana, Weeping Lantana montevidensis Leopards Bane Doronicum cordatum Lillium spp.

Lily

Liriope, Big Blue Liriope, Creeping Liriope, Variegated Loosestrife, Garden

Montbretia Moonbeam

Liriope muscari

Liriope spicata

Liriope muscari

Lysimachia punctata

Coreopsis verticillata

Crocosmía crocosmiiflora

Tolerant Ornamental Species (continued)

Perennials (continued)	
Common Name	Scientific Name
Nightshade	Solanum spp.
Orchid, Peacock	Acidanthera bicolor
Oxeye Daisy	Chrysanthemum leucanthemum
Peony, Chinese	Paeonia lactiflora
Purple Coneflower	Echinacea purpurea
Purple Loosestrife	Lythrum virgatum
Rosemary	Rosmarinus officinalis
Ruscus, Israeli	Ruscus hypophyllum
Sage, Russian	Perovskia atriplicifolia
Sedge	Carex spp.
Shasta Daisy	Chrysanthemum x superbum
Sweet Flag	Acorus calamus
Texas Bluebonnet	Lupinus texenis
Tickseed	Coreopsis lanceolata
Tulip	Tulipa spp.
Twinspur	Diasciascia barbaerae
Wonder Flower	Ornithogalum thyrsoides
Yarrow	Achillea millefolium
Zephyr Lily	Zephyranthes spp.

^{*}Applications of **Pendulum® 0.66% Plus Fertilizer** to immature ferns (during periods of new growth of fronds) may result in some injury.

Ornamental Grass

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	<i>Arundo</i> spp.
Ribbon Grass	Phalaris arundinacea
Tufted Hair Grass	Deschampsia caespitosa

Tolerant Ornamental Species (continued

Bedding Plants*

Common Name	Scientific Name
Ageratum	Ageratum houstonianum
Alyssum	Alyssum saxatile
Anemone, Poppy-flowered	Anemone coronaria
Artemesia	Artemesia spp.
Balloonflower	Platycodon grandiflorum
Begonia	Begonia spp.
Cabbage, Ornamental	Brassica oleracea
Caladium	Caladium spp.
China Aster	Callistephus chinensis
Crocosmia, Montebretia	Crocosmia x crocosmiiflora
Dahlia	Dahlia spp.
Dianthus	Dianthus barbatus
Dusty Miller	Senecio cineraria
Gazania, Trailing	Gazania rigens leucolaena
Gazania, Treasure Flower	Gazania rigens
Geranium	Geranium spp.
Gloxinia	Gloxinia simningia
Impatiens	Impatiens spp.
Kale, Ornamental	Brassica napus
Marigold, African	Tagetes erecta
Moss Rose	Portulaca grandiflora
Mum, Garden	Chrysanthemum spp.
Pansy, Garden	Viola x wittrockiana
Periwinkle, Rose	Catharanthus roseus
	or <i>Vinca rosea</i>
Petunia	Petunia spp.
Plumosa Cockscomb	Celosia cristata
Portulaca	Portulaca grandiflora
Salvia	Salvia splendens
Snapdragon	Antirrhinum majus
Statice	Limonium spp.
Sweet William	Dianthus barbatus
Vinca or Periwinkle	Catharanthus roseus
Zinnia	Zinnia spp.

^{*}After planting bedding plants and before **Pendulum® 0.66% Plus Fertilizer** is applied, the area to be treated should be watered sufficiently to pack soil around roots.

DO NOT treat plants grown for food or feed.

DO NOT use treated plants for food or feed.

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