

241-375

5-18-2007

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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Jeffrey H. Birk, Ph.D.
Regulatory Manager
BASF Corporation
26 Davis Drive
P.O. Box 13528
Research Triangle Park, NC 27709

SUBJECT: Applications for Pesticide Notification (PRN 98-10) – Add Ornamentals/Reorganize Label
Pre-M® 3.3 EC Turf Herbicide EPA Reg. No. 241-360
✓ Pendulum® 2G Herbicide EPA Reg. No. 241-375
Applications Dated April 16, 2007

Dear Dr. Birk:

The Agency is in receipt of your Applications for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above products. The Registration Division (RD) has conducted a review of these requests for their 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, please contact me directly at 703-305-6249 or Terri Stowe of my staff at 703-305-6117.

Sincerely,

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



The Chemical Company

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April 13, 2007

U.S. Environmental Protection Agency
Office of Pesticide Programs (7505P)
Document Processing Desk 7504P (NOTIF)
Room S-4900
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202
Attention: Mr. James Tompkins, (PM 25)

NOTIFICATION

MAY 18 2007

**RE: Notification:
Labeling changes for Pendulum® 2G herbicide
EPA Reg. No. 241-375**

Dear Mr. Tompkins:

BASF is hereby submitting a notification of minor label changes for Pendulum 2G herbicide (EPA Reg. No. 241-375). The changes include the addition of Seashore *Paspalum* to warm season grasses on page 5, the addition of several species to the ornamental list on pages 7-11 and several typographical changes throughout the text.

Enclosed please find:

- Application form 8570-1
- CD containing electronic copy of the label
- Certification with Respect to Label Integrity
- Pendulum 2G herbicide label.
- Current Pendulum 2G herbicide 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.
Global Regulatory Manager
Phone 919-547-2622
Fax: 919-547-2850
Email: jeffrey.birk@basf.com

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United States
Environmental Protection Agency
 Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 241-375	2. EPA Product Manager James Tompkins	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Pendulum 2G herbicide	PM# 25	
5. Name and Address of Applicant (Include ZIP Code) BASF 26 Davis Drive Research Triangle Park, NC 27709 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

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

NOTIFICATION

MAY 18 2007

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

Notification of minor label changes for Pendulum 2G herbicide (241-375). This notification is consistent with the provisions of PR Notice 95-2 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

notification is not subject to a fee under PRIA. Contact Jeff Birk at 919-547-2622 (phone), 919-547-2850 (fax) or by Email at jeffrey.birk@basf.com

Section - III

1. Material This Product Will Be Packaged In:

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

3. Location of Net Contents Information
 Label Container

4. Size(s) Retail Container

5. Location of Label Directions

6. Manner in Which Label is Affixed to Product
 Lithograph
 Paper glued
 Stenciled Other _____

Section - IV

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

Name Jeffrey H. Birk	Title Regulatory Manager	Telephone No. (Include Area Code) 919-547-2622
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Certification
 I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2. Signature

3. Title
Regulatory Manager

4. Typed Name
Jeffrey H. Birk

5. Date
April 13, 2007

6. Date Application Received
(Stamped)

MAY 18 2007

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Certification with Respect to Label Integrity

version: 9/11/02

I certify that the information (including, but not limited to, text, tables, and graphics) contained in the electronic file identified below by file name and submitted with this certification is the same information as that on the paper copies of these documents included with this submission.

PROPOSED LABEL		
EPA Registration #	Date Submitted to EPA	Electronic file name
241-375	4-13-07	000241-00375.20070413.NVA 2007-04-123-0007

I certify that the statements that I have made on this form are true, accurate, and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.



Signature

04/13/2007

Date

Jeffrey H. Birk

Name (typed)

Regulatory Manager

Title

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NOTIFICATION

MAY 18 2007

PENDULUM®

granule herbicide

FOR USE IN
Turfgrasses, Ornamentals,
Landscape or Grounds
Maintenance, and
Noncropland Areas

2G

Active Ingredient:

pendimethalin: N-(1-ethylpropyl)-3, 4-dimethyl-2, 6-dinitrobenzenamine 2.0%

Inert Ingredients:

..... 98.0%

Total: 100.0%

(40 lbs contains 0.8 lb of pendimethalin)

EPA Reg. No. 241-375

EPA Est No. _____

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.)

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

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

Net Contents: _____

BASF Corporation
Agricultural Products
26 Davis Drive
Research Triangle Park, NC 27709

 **BASF**
The Chemical Company

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FIRST AID	
If in eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • 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 person.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS
CAUTION

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing.

Personal Protective Equipment (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for **Category A** on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves.
- Shoes plus socks.

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

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

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

DIRECTIONS FOR USE

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

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

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® 2G granule herbicide in greenhouses, shadehouses or other enclosed structures.

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.

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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
- Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

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

DO NOT enter or allow others to enter the treated area until dusts have settled.

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

STORAGE AND DISPOSAL

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

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

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

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

Observe all cautions and limitations on this label and the labels of products used in combination with **Pendulum® 2G granule herbicide**. The use of **Pendulum 2G** not consistent

with this label can result in injury to crops, animals, or persons. Keep containers closed to avoid spills and contamination.

GENERAL INFORMATION

Pendulum 2G provides preemergence control of most annual grasses and certain broadleaf weeds as they germinate in any turfgrass site (lawns, sod, turf areas). Examples of such sites include but are not limited to: grounds or lawns around residential and commercial establishments, multifamily dwellings, military and other institutions, parks, airports, roadsides, schools, picnic grounds, athletic fields, houses of worship, cemeteries, golf courses, prairiegrass areas, and sod farms.

Pendulum 2G can be used in and around field-, liner-, and container-grown ornamental nurseries; established landscape ornamentals and ornamental gardens; listed groundcovers and bulbs; nonbearing fruit and nut trees; conifer and hardwood seedling nurseries; and for tree plantation site preparation and maintenance.

In addition, **Pendulum 2G** can be applied for general grounds maintenance around areas such as parking lots, driveways and roadsides, alleyways, bike and jogging paths, vacant lots, buildings, stone gardens and gravel yards, markers and fence lines, mulch beds and other similar areas. It may be used under asphalt or concrete treatments as part of a site preparation program.

Pendulum 2G is recommended for preemergence control of most annual grasses and certain broadleaf weeds as they germinate in any noncropland area such as railroad, utility, highway, and pipeline rights-of-way; highway guardrails, delineators, and sign posts; bridge abutments and approaches; utility substations; petroleum tank farms; pumping installations; storage areas; fence rows; windbreaks and shelterbelts; paved or gravel surfaces; established wildflower plantings, and other similar areas where weed control is desired.

Pendulum 2G controls weeds as they germinate but will not control established weeds. Therefore, areas to be treated should be free of established weeds. For the control of established weeds, **Pendulum 2G** may be used in conjunction with herbicides registered for postemergence use. Consult the labels of those herbicides for use rates, timings, and precautions or restrictions.

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.

The efficacy of **Pendulum 2G** will improve if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. If **Pendulum 2G** is not activated by rainfall or irrigation within 30 days, erratic weed control may result.

Applied according to label directions and under normal growing conditions, **Pendulum 2G** 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.

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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® 2G granule herbicide**.

Dry Fertilizers: Pendulum 2G may be mixed with dry fertilizers. When applied as directed, **Pendulum 2G**/dry fertilizer mixtures provide weed control equal to that provided by the same rates of **Pendulum 2G** applied alone.

Pendulum 2G may cause temporary discoloration of treated surfaces. Sweep surface clean immediately to avoid staining.

TURFGRASSES

APPLICATION RATES FOR TURF WEED CONTROL¹

Turfgrass Species	Weeds	Rates of Pendulum 2G	Comments
COOL SEASON GRASSES			
Bluegrass, Kentucky Fescue, fine Fescue, tall Ryegrass, perennial	Barnyardgrass	75 to 100 lbs/acre as the initial application prior to weed germination in the spring.	Apply a repeat application of 51 to 75 lbs/acre after 5 to 8 weeks for extended control or where heavy weed infestations are expected.
	Crabgrass		
	Evening primrose		
	Fall panicum		
	Foxtail		
	Hop clover		
	Knotweed		
	Oxalis		
	<i>Poa annua</i>		
	Prostrate spurge		
	Purslane		
	Goosegrass	Residential² Turf Uses Only: 75 to 100 lbs/acre in the spring prior to weed germination.	Apply a repeat application of 75 lbs/acre after 5 to 8 weeks if the lower rate was used initially or for extended goosegrass control.
		Industrial and Commercial Turf Uses: 75 to 150 lbs/acre in the spring prior to weed germination.	
	Chickweed	75 to 100 lbs/acre	Apply in late summer or early fall prior to weed germination.
	Corn speedwell		
	Cudweed		
	Henbit		
	Lawn burweed		
	<i>Poa annua</i>		
Bentgrass or established <i>Poa annua</i> ³ (½-inch height or taller)	Barnyardgrass	75 lbs/acre in the spring prior to weed germination.	Apply a repeat application of 51 to 75 lbs/acre after 5 to 8 weeks where heavy weed infestations are expected.
	Crabgrass		
	Evening primrose		
	Fall panicum		
	Foxtail		
	Hop clover		
	Knotweed		
	Oxalis		
	<i>Poa annua</i>		
	Prostrate spurge		
	Purslane		
	Goosegrass	75 lbs/acre in the spring prior to weed germination. Apply a repeat application of 75 lbs/acre after 5 to 8 weeks.	
	Chickweed	75 to 100 lbs/acre	Apply in late summer or early fall prior to weed germination.
	Corn speedwell		
	Cudweed		
	Henbit		
	Lawn burweed		
	<i>Poa annua</i>		

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TURFGRASSES

APPLICATION RATES FOR TURF WEED CONTROL¹ (continued)

Turfgrass Species	Weeds	Rates of Pendulum [®] 2G granule herbicide	Comments
WARM SEASON GRASSES			
Bahiagrass	Barnyardgrass	Residential² Turf Uses Only: 75 to 100 lbs/acre in the spring prior to weed germination. Industrial and Commercial Turf Uses: 75 to 150 lbs/acre in the spring prior to weed germination.	Apply a repeat application of 51 to 75 lb/acre after 5 to 8 weeks if necessary.
Bermudagrass	Crabgrass		
Buffalograss	Evening primrose		
Centipedegrass	Fall panicum		
Fescue, tall	Foxtail		
<i>Paspalum</i> , seashore	Hop clover		
St. Augustinegrass	Knotweed		
Zoysiagrass	Oxalis		
	<i>Poa annua</i>		
	Prostrate spurge		
	Purslane		
	Goosegrass	75 lbs/acre prior to weed germination in the spring. Apply a repeat application of 75 to 100 lbs/acre after 5 to 8 weeks.	An additional application of 75 lbs/acre may be applied for extended goosegrass control 8 weeks after the second application.
	Chickweed	75 to 100 lbs/acre	Apply in late summer or early fall prior to weed germination.
	Corn speedwell		
	Cudweed		
	Henbit		
	Lawn burweed		
	<i>Poa annua</i>		

¹ **DO NOT** exceed a maximum rate of 100 pounds per acre per application for use on residential turfgrass.

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

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

The efficacy of **Pendulum 2G** will be improved if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. If **Pendulum 2G** is not activated by rainfall or irrigation within 30 days, erratic weed control may result.

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

TURFGRASS PRECAUTIONS

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

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

DO NOT use on bentgrass or *Poa annua* greens and tees or injury may occur.

Delay reseeding or winter overseeding of treated turfgrass for at least three (3) months following the last **Pendulum 2G** application. Delay sprigging turfgrass for five (5) months after application.

INDUSTRIAL (UNIMPROVED) TURF

Industrial or unimproved turf areas often have a different spectrum of weeds to be controlled than those found in fine turf as described elsewhere in this leaflet. **Pendulum 2G** will control

annual grasses and broadleaf weeds mentioned in that section of this label as well as the following weeds that might germinate in established grasses in rights-of-way, roadsides, construction sites, parks, substations, lots, or similar areas: 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.

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**APPLICATION INSTRUCTIONS
FOR Pendulum® 2G granule herbicide**

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

Avoid application when winds may cause drift.

Avoid unintentional contact of granules with driveways, stone, wood or other porous surfaces. Sweep immediately to avoid staining. If granules are crushed into surface, then rinse thoroughly.

SUGGESTED SPREADER SETTINGS FOR TURF

To provide proper distribution, calibrate your spreader before application.
25 lbs treats 11,000 sq ft (¼ acre) at the 100 lbs product per acre rate.

Spreader	Ground or PTO Speed (mph)	Width of Coverage (ft)	Recommended Rate Range (lbs of product per acre)		
			75	100	150
Lesco Rotary			C	D	F
Scott Rotaries	R-7, R-7X	3	B ½	D	E ½
	R-8, R-8A. SR-1 (cone 9)	3	H ½	I	J ½
Lely Models	(see below)	4.5	3 ¼ III	3 ½ III	4 ½ III
Vicon	(Model 02)	4.5	12	16	20
	(Model 03)	4.5	9	10	13
Lely models WTR, WFR, HR and 1250. PTO at 450 rpm.					

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ORNAMENTALS

RECOMMENDED SPECIES

Pendulum® 2G granule herbicide is safe around and over the top of the established plants listed below.
Refer to **APPLICATION RATE TABLE** for rates.

TREES		TREES (continued)	
Common Name	Scientific Name	Common Name	Scientific Name
Alder, European Black	<i>Alnus glutinosa</i>	Maple, Japanese	<i>Acer palmatum</i>
Apple	<i>Malus</i> spp.	Maple, Norway	<i>Acer platanoides</i>
Arborvitae, American	<i>Thuja occidentalis</i>	Maple, Paper-bark	<i>Acer griseum</i>
Arbutus	<i>Arbutus</i> spp.	Maple, Red	<i>Acer rubrum</i>
Ash, Red	<i>Fraxinus pennsylvanica</i>	Maple, Sugar	<i>Acer saccharum</i>
Ash, White	<i>Fraxinus americana</i>	Nannyberry, Rusty	<i>Viburnum rufidulum</i>
Aspen, Bigtooth	<i>Populus grandidentata</i>	Oak, Chinquapin	<i>Quercus muehlenbergii</i>
Aspen, Quaking	<i>Populus tremuloides</i>	Oak, Live	<i>Quercus virginiana</i>
Basswood	<i>Tilia</i> spp.	Oak, Pin	<i>Quercus palustris</i>
Birch, European Weeping	<i>Betula pendula</i>	Oak, Red	<i>Quercus rubra</i>
Birch, River	<i>Betula nigra</i>	Oak, Swamp Chestnut	<i>Quercus michauxii</i>
Buckeye, Red	<i>Aesculus pavia</i>	Oak, Water	<i>Quercus nigra</i>
Cedar, White	<i>Thuja occidentalis</i>	Oak, White	<i>Quercus alba</i>
Chamaecyparis, Boulevard	<i>Chamaecyparis pisifera</i>	Oak, Willow	<i>Quercus phellos</i>
Cherry, Black	<i>Prunus serotina</i>	Olive	<i>Olea europaea</i>
Cherry, Choke	<i>Prunus virginiana</i>	Palm, Date	<i>Phoenix</i> spp.
Cherry, Kwanzan	<i>Prunus serrulata</i>	Palm, Fan	<i>Washingtonia</i> spp.
Cherry, Nanking	<i>Prunus tomentosa</i>	Palm, Pindo	<i>Butia</i> spp.
Cottonwood	<i>Populus deltoides</i>	Palm, Washington	<i>Washingtonia</i> spp.
Crabapple	<i>Malus</i> spp.	Peach	<i>Prunus persica</i>
Crape Myrtle	<i>Lagerstroemia indica</i>	Pear, Bradford	<i>Pyrus calleryana</i> 'Bradford'
Cryptomeria, Japanese Cedar	<i>Cryptomeria japonica</i>	Pecan	<i>Carya illinoensis</i>
Cypress, Bald	<i>Taxodium distichum</i>	Pine, Austrian	<i>Pinus nigra</i>
Cypress, Leyland	<i>Cupressocyparis leylandii</i>	Pine, Italian Stone	<i>Pinus pinea</i>
Dogwood, Flowering	<i>Cornus florida</i>	Pine, Loblolly	<i>Pinus taeda</i>
Dogwood, Korean	<i>Cornus kousa</i>	Pine, Monterey	<i>Pinus radiata</i>
Dogwood, Shrub	<i>Cornus</i> spp.	Pine, Red	<i>Pinus resinosa</i>
Dogwood, Silky	<i>Cornus amomum</i>	Pine, Scotch	<i>Pinus sylvestris</i>
Elm	<i>Ulmus japonica</i>	Pine, Virginia	<i>Pinus virginiana</i>
Fir, Balsam	<i>Abies balsamae</i>	Pine, White	<i>Pinus strobus</i>
Fir, Douglas	<i>Pseudotsuga menziesii</i>	Plum, Purple Leaf	<i>Prunus cerasifera</i>
Fir, Fraser	<i>Abies fraseri</i>	Poplar, Black	<i>Populus nigra</i>
Fir, White	<i>Abies concolor</i>	Redcedar, Eastern	<i>Juniperus virginiana</i>
Franklinia	<i>Franklinia</i> spp.	Redcedar, Western	<i>Thuja plicata</i>
Ginkgo	<i>Ginkgo biloba</i>	Red Ironbark	<i>Eucalyptus sideroxylon</i> 'Rosea'
Gum, Black	<i>Nyssa sylvatica</i>	Redwood, Dawn	<i>Metasequoia glyptostroboides</i>
Gum, Sour	<i>Nyssa sylvatica</i>	Sequoia, Giant	<i>Sequoiadendron giganteum</i>
Haw, Black	<i>Viburnum prunifolium</i>	Serviceberry	<i>Amelanchier laevis</i>
Hawthorn	<i>Crataegus</i> spp.	Sourwood	<i>Oxydendrum arboreum</i>
Hemlock, Canada	<i>Tsuga canadensis</i>	Spruce, Colorado Blue	<i>Picea pungens</i>
Hemlock, Eastern	<i>Tsuga canadensis</i>	Spruce, Dwarf Alberta	<i>Picea glauca</i> 'Albertiana'
Holly, American	<i>Ilex opaca</i>	Spruce, Norway	<i>Picea abies</i>
Honeylocust	<i>Gleditsia triacanthos</i>	Spruce, White	<i>Picea glauca</i>
Lilac, Common	<i>Syringa vulgaris</i>	Sweetgum	<i>Liquidambar styraciflua</i>
Lilac, Japanese Tree	<i>Syringa reticulata</i>	Sycamore	<i>Platanus occidentalis</i>
Linden	<i>Tilia</i> spp.	Trachycarpus	<i>Trachycarpus</i> spp.
Magnolia, Saucer	<i>Magnolia soulangiana</i>	Tulip tree	<i>Liriodendron tulipifera</i>
Magnolia, Southern	<i>Magnolia grandiflora</i>	Walnut, Black	<i>Juglans nigra</i>
Magnolia, Star	<i>Magnolia stellata</i>	Willow, Weeping	<i>Salix babylonica</i>
Maidenhair Tree	<i>Ginkgo biloba</i>	Yellowwood	<i>Cladrastis lutea</i>

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ORNAMENTALS (continued)

RECOMMENDED SPECIES

Pendulum® 2G granule herbicide is safe around and over the top of the established plants listed below.
Refer to **APPLICATION RATE TABLE** for rates.

SHRUBS		SHRUBS (continued)	
Common Name	Scientific Name	Common Name	Scientific Name
Abelia, Glossy	<i>Abelia grandiflora</i>	Juniper, Shore	<i>Juniperus conferta</i>
Althaea	<i>Hibiscus syriacus</i>	Juniper, Trailing	<i>Juniperus horizontalis</i>
Aucuba, Gold	<i>Aucuba japonica</i>	Laurel, Cherry	<i>Prunus laurocerasus</i>
Azalea	<i>Rhododendron</i> spp.	Laurel, Mountain	<i>Kalmia latifolia</i>
Bamboo, Heavenly	<i>Nandina domestica</i>	Laurel, Otto Luyken	<i>Prunus laurocerasus</i>
Barberry	<i>Berberis gladwynensis</i>	Laurel, Schipka	<i>Prunus schipkanensis</i>
Barberry, Japanese	<i>Berberis thunbergii</i>	Laurustinus	<i>Viburnum tinus</i>
Blue Indigo Bush	<i>Dalea gregii</i>	Lavender, English	<i>Lavandula angustifolia</i>
Bottlebrush, Lemon	<i>Callistemon citrinus</i>	Leucothoe	<i>Leucothoe fontanesiana</i>
Boxwood, Common	<i>Buxus sempervirens</i>	Leucothoe, Coast	<i>Leucothoe axillaris</i>
Boxwood, Japanese	<i>Buxus microphylla</i>	Lilac, Cut-leaf	<i>Syringa laciniata</i>
Brittlebush	<i>Encelia farinosa</i>	Lily-of-the-Nile	<i>Agapanthus africanus</i>
Buttonbush	<i>Cephalanthus occidentalis</i>	Mahonia	<i>Mahonia aquifolium</i>
Butterfly bush	<i>Buddleia davidii</i>	Mock Orange	<i>Pittosporum tobira</i>
Camellia	<i>Camellia japonica</i>	Myrtle, Compact	<i>Myrtus communis</i>
Cape Jasmine	<i>Gardenia jasminoides</i>	Myrtle, Wax	<i>Myrica cerifera</i>
Cassia, Feathery	<i>Cassia artemisioides</i>	Nandina	<i>Nandina domestica</i>
Cordylone	<i>Cordylone</i> spp.	Oleander	<i>Nerium oleander</i>
Correa	<i>Correa</i> spp.	Oregon Grape	<i>Mahonia aquifolium</i>
Cotoneaster	<i>Cotoneaster apiculatus</i>	Osmanthus	<i>Osmanthus fragrans</i>
Cotoneaster, Bearberry	<i>Cotoneaster dammeri</i>	Palm, European Fan	<i>Chamaerops humilis</i>
Cotoneaster, Rock	<i>Cotoneaster horizontalis</i>	Palm, Mediterranean Fan	<i>Chamaerops</i> spp.
Cypress, Italian	<i>Cupressus sempervirens</i>	Phlox, Prickly	<i>Leptodactylon californicum</i>
Cypress, Leyland	<i>Cupressocyparis leylandii</i>	Photinia, Fraser	<i>Photinia x Fraseri</i>
Deutzia, Slender	<i>Deutzia gracilis</i>	Pieris, Japanese	<i>Pieris japonica</i>
Dogwood, Red Twig	<i>Cornus sericea</i>	Pine, Mugo	<i>Pinus mugo</i>
Elaeagnus	<i>Elaeagnus ebbingei</i>	Plum, Natal	<i>Carissa grandiflora</i>
Escallonia	<i>Escallonia fradesii</i>	Privet, California	<i>Ligustrum ovalifolium</i>
Euonymus	<i>Euonymus fortunei</i>	Privet, Glossy	<i>Ligustrum lucidum</i>
Euonymus, Golden	<i>Euonymus japonica</i>	Privet, Variegated	<i>Ligustrum sinensis</i>
Euonymus, Winged	<i>Euonymus alata</i>	Privet, Waxleaf	<i>Ligustrum japonicum</i>
Firethorn	<i>Pyracantha coccinea</i>	Pyracantha	<i>Pyracantha coccinea</i>
Forsythia, Border	<i>Forsythia intermedia</i>	Quince, Flowering	<i>Chaenomeles japonica</i>
Fragrant Olive	<i>Osmanthus fragrans</i>	Ranger, Texas	<i>Leucophyllum frutescens</i>
Fuschia, California	<i>Zauschneria californica</i>	Redroot	<i>Ceanothus</i> spp.
Gardenia	<i>Gardenia jasminoides</i>	Rhododendron	<i>Rhododendron</i> spp.
Hawthorne, Indian	<i>Raphiolepis indica</i>	Robira	<i>Pittosporum tobira</i>
Hibiscus	<i>Hibiscus syriacus</i>	Rose	<i>Rosa</i> spp.
Holly, Chinese	<i>Ilex cornuta</i>	Rose-of-Sharon	<i>Hibiscus syriacus</i>
Holly, Japanese	<i>Ilex crenata</i>	Spice Plant	<i>Illicium parviflorum</i>
Holly, Fosters	<i>Ilex attenuata</i> 'Fosteri'	Spiraea	<i>Spiraea vanhouttei</i>
Holly, Savannah	<i>Ilex attenuata</i>	Spiraea, Anthony Waterer	<i>Spiraea x bumalda</i>
Holly, Yaupon	<i>Ilex vomitoria</i>	Spiraea, Japanese	<i>Spiraea japonica</i>
Honeysuckle, Bush	<i>Diervilla lonicera</i>	Sweet Bay	<i>Laurus nobilis</i>
Hopbush	<i>Dodonaea viscosa</i>	Trumpet Bush	<i>Tecoma stans</i>
Hopseed Bush	<i>Dodonaea viscosa</i>	Verbena, Lemon	<i>Aloysia triphylla</i>
Hydrangea	<i>Hydrangea macrophylla</i>	Viburnum	<i>Viburnum suspensum</i>
Juniper	<i>Juniperus</i> spp.	Vitex	<i>Vitex</i> spp.
Juniper, Chinese	<i>Juniperus chinensis</i> v. <i>pfitzer</i>	Weigela	<i>Weigela florida</i>

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ORNAMENTALS (continued)

RECOMMENDED SPECIES

Pendulum® 2G granule herbicide is safe around and over the top of the established plants listed below. Refer to **APPLICATION RATE TABLE** for rates.

SHRUBS (continued)		PERENNIALS	
Common Name	Scientific Name	Common Name	Scientific Name
Wild Lilac	<i>Ceanothus</i> spp.	Acacia	<i>Acacia redolens</i>
Wisteria	<i>Wisteria</i> spp.	Alumroot	<i>Heuchera sanguinea</i>
Xylosma	<i>Xylosma congestum</i>	Asparagus	<i>Asparagus</i> spp.
Yellowbells	<i>Tecoma stans</i>	Aster, New York	<i>Aster novi-belgii</i>
Yew	<i>Taxus media</i>	Aster, Stokes	<i>Stokesia laevis</i>
Yew, Japanese	<i>Taxus cuspidata</i>	Astilbe (False Spirea)	<i>Astilbe</i> spp.
Yew, Southern	<i>Podocarpus macrophyllus</i>	Baby's Breath	<i>Gypsophila elegans</i>
Yucca, Adam's Needle	<i>Yucca filamentosa</i>	Beard Tongue	<i>Penstemon digitalis</i> , <i>P. x mexicali</i>
Yucca, Weeping	<i>Yucca pendula</i>	Bee Balm	<i>Monarda didyma</i>
GROUND COVERS		Bellflower	<i>Campanula</i> spp.
Common Name	Scientific Name	Bergenia, Heart-leaved	<i>Bergenia cordifolia</i>
Ajuga	<i>Ajuga reptans</i>	Bird of Paradise	<i>Caesalpinia pulcherrima</i>
Baby Sun Rose	<i>Aptenia cordifolia</i>	Black-eyed Susan	<i>Rudbeckia hirta</i>
Beach Strawberry	<i>Fragaria chiloensis</i>	Blanket Flower	<i>Gaillardia x grandiflora</i>
Capeweed	<i>Arctotheca calendula</i>	Bleeding Heart	<i>Dicentra spectabilis</i>
Cinquefoil, Spring	<i>Potentilla verna</i>	Bluestar	<i>Amsonia tabernaemontan</i> , <i>Amsonia hubrichtii</i>
Coyotebrush, Dwarf	<i>Baccharis pitularis</i>	Blue False Indigo	<i>Baptisia australis</i>
Daisy, Trailing African	<i>Osteospermum fruticosum</i>	Bugbane	<i>Cimicifuga racemosa</i>
Dymondia	<i>Dymondia margaretae</i>	Butterfly Weed	<i>Asclepias tuberosa</i>
Gazania	<i>Gazania splendens</i>	California Poppy	<i>Eschscholzia californica</i>
Iceplant, Large Leaf	<i>Carpobrotus edulis</i>	Calla Lily	<i>Zantedeschia aethiopica</i>
Ivy, English	<i>Hedera helix</i>	Canna, Common Garden	<i>Canna-generalis</i> 'Lucifer'
Ivy, Geranium	<i>Pelargonium peltatum</i>	Canadian Ginger	<i>Asarum canadense</i>
Jasmine, Asiatic	<i>Trachelospermum asiaticum</i>	Candytuft	<i>Iberis</i> spp.
Jasmine, Primrose	<i>Jasminum mesnyi</i>	Carex	<i>Carex</i> spp.
Jessamine, Carolina	<i>Gelsemium sempervirens</i>	Cast Iron Plant	<i>Aspidistra elatior</i>
Lilyturf, Big Blue, Giant	<i>Liriope muscari</i>	Chincherinchee	<i>Ornithogalum thyrsoides</i>
Manzanita, Bearberry	<i>Arctostaphylos uva-ursi</i>	Christmas Rose	<i>Helleborus niger</i>
Miscanthus	<i>Miscanthus</i> spp.	Clematis	<i>Clematis</i> spp.
Mondograss	<i>Ophiopogon japonica</i>	Clover, Crimson	<i>Trifolium incarnatum</i>
Morningglory	<i>Convolvulus</i> spp.	Cohosh, Black	<i>Cimicifuga racemosa</i>
Myoporum	<i>Myoporum parvifolium</i>	Columbine	<i>Aquilegia</i> -'McKana Giant'
Pachysandra	<i>Pachysandra terminalis</i>	Coral Bells	<i>Heuchera sanguinea</i>
Potentilla	<i>Potentilla fruticosa</i>	Coreopsis	<i>Coreopsis lanceolata</i>
Red Apple	<i>Aptenia cordifolia</i>	Crinum Lily	<i>Crinum</i> spp.
Rosemary	<i>Rosemarinus officinalis</i>	Crocus	<i>Crocus</i> spp.
Rose-of-Sharon	<i>Hibiscus syriacus</i> L.	Daffodil	<i>Narcissus</i> spp.
St. Johnswort, Creeping	<i>Hypericum calycinum</i>	Daylily	<i>Hemerocallis</i> spp.
Sand Strawberry	<i>Fragaria chiloensis</i>	False Dragonhead	<i>Physostegia virginiana</i>
Sedum	<i>Sedum spurium</i>	Fairy Duster	<i>Calliandra eriophylla</i>
Stonecrop	<i>Sedum spurium</i>	Fern, Asparagus	<i>Asparagus officinalis</i>
Verbena, Peruvian	<i>Verbena peruviana</i>	Fern, Boston	<i>Nephrolepis exaltata</i>
Vervain	<i>Verbena peruviana</i>	Fern, Leatherleaf*	<i>Rumohra adiantiformis</i>
Vetch, Crown	<i>Vicia sativa</i>	Fern, Tree	<i>Asparagus virgatus</i>
Vinca	<i>Vinca minor</i>	Foamflower, Heartleaf	<i>Tiarella cordifolia</i> , <i>T. wherryi</i>
Wintercreeper	<i>Euonymus fortunei</i>	Fortnight Lily	<i>Moraea</i> spp.
		Foxglove	<i>D. thaspi</i>
		Foxglove, Common	<i>Digitalis purpurea</i>

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ORNAMENTALS (continued)

RECOMMENDED SPECIES

Pendulum® 2G granule herbicide is safe around and over the top of the established plants listed below. Refer to **APPLICATION RATE TABLE** for rates.

PERENNIALS (continued)		PERENNIALS (continued)	
Common Name	Scientific Name	Common Name	Scientific Name
Freesia	<i>Freesia x hybrida</i>	Nightshade	<i>Solanum</i> spp.
Flax, Blue	<i>Linum perenne</i>	Orchid, Peacock	<i>Acidanthera bicolor</i>
Flax, New Zealand	<i>Phlormium colinsoi</i>	Oxeye Daisy	<i>Chrysanthemum leucanthemum</i>
Fuschia, Arizona	<i>Zauschneria Californica</i>	Oxeye, Smooth	<i>Heliopsis helianthoides</i>
Gaillardia	<i>Gaillardia pulchella</i>	Peony, Chinese	<i>Paeonia lactiflora</i>
Gaura	<i>Gaura lindheimeri</i>	Phlox, Creeping	<i>Phlox subulata</i>
Gazania	<i>Gazania linearis</i>	Pincushion Flower	<i>Scabiosa</i> spp.
Geum	<i>Geum</i> spp.	Prickly Pear, Devil's-Tongue	<i>Opuntia humifusa</i>
Gladiolus	<i>Gladiolus</i> spp.	Primrose, Fairy	<i>Primula malacoides</i>
Globe Amaranth	<i>Gomphrena globosa</i>	Purple Coneflower	<i>Echinacea purpurea</i>
Golden Rockets	<i>Ligularia stenocephala</i>	Purple Loosestrife	<i>Lythrum virgatum</i>
Goldenrod, Wrinkleleaf	<i>Solidago rugosa</i>	Pussy-Toes, Stoloniferous	<i>Antennaria dioica</i>
Goldenrod, Seaside	<i>S. sempervirens</i>	Pussy-Toes, Small-Leaf	<i>A. parvifolia</i>
Goldenrod, Showy	<i>S. specia</i>	Red-Hot-Poker	<i>Kniphofia uvaria</i>
Heather, Dwarf	<i>Calluna vulgaris</i>	Rosemary	<i>Rosmarinus officinalis</i>
Heather, Elfin	<i>Cuphea hyssopifolia</i>	Rock Cress	<i>Aubrieta</i> spp.
Heather, False	<i>Cuphea hyssopifolia</i>	Ruscus, Israeli	<i>Ruscus hypophyllum</i>
Heather, Mexican	<i>Cuphea hyssopifolia</i>	Sage, Romona	<i>Salvia sylvestris</i>
Hellebore	<i>Helleborus niger</i>	Sage, Russian	<i>Perovskia atriplicifolia</i>
Hen and Chicks	<i>Sempervivum arachnoideum</i> , <i>S. tectorum</i>	Sedge	<i>Carex</i> spp.
Hopflower Oregano	<i>Origanum libanoticum</i>	Shasta Daisy	<i>Chrysanthemum-x superbum</i>
Hosta	<i>Hosta</i> spp.	Shellplant	<i>Alpinia zerumbet</i>
Hyssop	<i>A. rugosa x foeniculum</i>	Shrub Verbena	<i>Lantana</i> spp., <i>L. montevidensis</i> , <i>L. hybrida</i>
Hyssop spp.	<i>Agastache aurantiaca</i>	Sneezeweed, Common	<i>Helenium autumnale</i>
Hyssop, Sunset	<i>Agastache rupestris</i>	Spiderwort	<i>Tradescantia virginiana</i> , <i>T. x andersoniana</i>
Ice plant, Hardy	<i>Delosperma nubigenum</i>	Stonecrop	<i>Sedum</i> spp.
Ice plant, Yellow	<i>Delosperma nubigenum</i>	Sunflower	<i>Helianthus</i> spp.
Indian Blanket	<i>Gaillardia pulchella</i>	Sunflower, False	<i>Heliopsis helianthoides</i>
Ironweed, New York	<i>Vernonia noveboracensis</i>	Sun Rose, Rock Rose	<i>Helianthemum</i> spp.
Jacob's Ladder	<i>Polemonium boreale</i>	Sweet Flag	<i>Acorus calamus</i>
Joeye Weed, Spotted	<i>Eupatorium maculatum</i>	Texas Bluebonnet	<i>Lupinus texensis</i>
Joeye Weed, Sweetscented	<i>E. purpureum</i>	Thoroughwort	<i>Eupatorium rugosa</i>
Jupiter's Beard	<i>Centranthus ruber</i>	Thrift, Sea Pink	<i>Armeria maritima</i>
Lantana, Weeping	<i>Lantana montevidensis</i>	Tickseed	<i>Coreopsis lanceolata</i>
Lady's-Mantle	<i>Alchemilla mollis</i>	Transvaal Daisy	<i>Gerbera jamesonii</i>
Lavender Cotton	<i>Santolinia chamaecyparissus</i>	Trumpet, Golden	<i>Allamanda cathartica</i>
Lavender, English	<i>Lavandula angustifolia</i>	Tulip	<i>Tulipa</i> spp.
Lenten Rose	<i>Helleborus niger</i>	Turtlehead, Snakehead	<i>Chelone</i> spp.
Leopard's Bane	<i>Doronicum cordatum</i>	Twinspur	<i>Diastascia barbaerae</i>
Lily	<i>Lilium</i> spp.	Wonder Flower	<i>Ornithogalum thyrsoides</i>
Lily, Plantain	<i>Lilium fortunei</i>	Vervain	<i>Verbena Canadensis</i>
Liriope, Big Blue	<i>Liriope muscari</i>	Veronica, Turkish	<i>Veronica livanensis</i>
Liriope, Creeping	<i>Liriope spicata</i>	Yarrow	<i>Achillea millefolium</i>
Liriope, Variegated	<i>Liriope muscari</i>	Zephyr Lily	<i>Zephyranthes</i> spp.
Loosestrife, Garden	<i>Lysimachia punctata</i>		
Mexican Petunia	<i>Ruellia carolinensis</i> , <i>R. brittoniana</i>		
Moonbeam	<i>Coreopsis verticillata</i>		
Montbretia	<i>Crococsmia crocosmiiflora</i>		

* Applications of **Pendulum 2G** to immature ferns (during periods of new growth of fronds) may result in some injury.

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ORNAMENTALS (continued)

RECOMMENDED SPECIES

Pendulum® 2G granule herbicide is safe around and over the top of the established plants listed below. Refer to **APPLICATION RATE TABLE** for rates.

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

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>

* After planting bedding plants and before **Pendulum 2G** is applied, area to be treated should be watered sufficiently to pack soil around roots.

Pendulum 2G may be used on plant species not listed on this label. The suitability for such uses should be determined by treating a small number of such plants at the recommended rate. Treated plants should be evaluated 1 to 2 months following treatment for possible injury.

THE USER ASSUMES RESPONSIBILITY FOR ANY CROP DAMAGE OR OTHER LIABILITY.

DO NOT treat plants grown for food or feed.

DO NOT use treated plants for food or feed.

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ORNAMENTAL BULBS

Pendulum® 2G granule herbicide may be applied for control of susceptible annual weeds in ornamental bulbs listed on the label (crocus, daffodil (narcissus), gladiolus, tulip, etc.). Apply **Pendulum 2G** prior to, during or after bulb emergence. If weeds have already germinated, use a labeled postemergence herbicide to control emerged weeds.

WILDFLOWERS

Pendulum 2G 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 2G** may be applied to established perennial wildflowers before emergence of weeds or wildflowers. For wildflowers being established from seed, apply **Pendulum 2G** 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 **Pendulum 2G** may vary greatly. Careful testing on desirable species is recommended to determine if area-wide applications can be made.

ORNAMENTAL PRECAUTIONS

Apply **Pendulum 2G** to established plantings. **DELAY** applying **Pendulum 2G** to seedbeds, transplant beds, or liners until plants have become well rooted. 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 2G** 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 **Pendulum** product or injury may occur.

For container-grown ornamentals, delay first application of this product to bare root liners 2 to 4 weeks after transplanting.

DO NOT APPLY Pendulum 2G in greenhouses, shadehouses or other enclosed structures.

LANDSCAPE AND GROUNDS MAINTENANCE

Pendulum 2G 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, such as mulch beds, parking areas and roadsides, fencelines and borders, around statuary or monuments, and similar areas, should be free of emerged weeds before application. To remove emerged weeds, either cultivate or apply a postemergence product labeled for such use.

Refer to **APPLICATION RATE TABLE** for rates. Avoid unintentional contact of granules with stone, wood, or other porous surfaces as staining may occur. Sweep immediately to avoid staining. If granules are crushed into surface, then rinse thoroughly.

NONBEARING FRUIT AND NUT CROPS AND VINEYARDS

Pendulum 2G may be applied for preemergence control of most annual grasses and certain broadleaf weeds on the following nonbearing crops:

Almond	Grape	Pistachio
Apple	Nectarine	Plum
Apricot	Olive	Prune
Cherry	Peach	Walnut, English
Citrus	Pear	
Fig	Pecan	

Refer to **APPLICATION RATE TABLE** for rates.

Apply granules directly to the ground below the trees or vines. 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 2G** and roots. Applications where soil and media surfaces are uniformly covered will result in best weed control and plant tolerance. For newly transplanted and one-year-old grapevines, apply only when they are dormant. **DO NOT** apply if buds have started to swell.

Pendulum 2G may be used where the roots of a fruit, vine, nut, or ornamental plant encroach into a treatable area.

NONCROPLAND AREAS INCLUDING TREE PLANTATIONS

Pendulum 2G is recommended for grounds maintenance in noncropland areas; preemergence control of the weed species listed in and around established tree plantations (including Christmas trees); in and around established ornamentals planted in noncropland areas such as highway rights-of-way, and utility substations. **Pendulum 2G** may be used for hardwood and conifer regeneration on conservation reserve program land or similar areas.

Refer to **APPLICATION RATE TABLE** for rates.

Pendulum 2G may be applied at planting or to established trees. When making an application at planting, it is important that slit closure be achieved to prevent **Pendulum 2G** from directly contacting the tree roots, or being washed into the root zone via the open slit, or root stunting may occur.

TOTAL VEGETATIVE CONTROL

Pendulum 2G may be mixed with a granular formulation or used in sequence with any formulation of **Arsenal®, Roundup Pro®, Karmex®, Finale®, Oust®**, diuron, or other products to provide bare ground or total vegetation control. **Pendulum 2G** can be used to provide greater plant selectivity in areas where such action may be desired. Such sites might have roots of landscape vegetation, ornamentals, or desirable trees encroaching into the treated zone.

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Applications may be made to existing weeds controlled by the partner herbicide. Recommended rates should be determined from the product labels prior to use. Follow the most restrictive label instructions.

For Kochia: Applications of **Pendulum® 2G granule herbicide** following **Arsenal® herbicide** or diuron are recommended if control has been a problem for other herbicides.

APPLICATION RATE TABLE

For preemergence control of the weed species listed using broadcast spreader equipment, apply **Pendulum 2G** at the following rates:

Length of Control	Pounds required to treat 1 acre	Pounds required to treat 1000 sq ft
Short Term (2 to 4 months)	100	2.3
Long Term (6 to 8 months)	200	4.6

Rate settings for a specific type of spreader device must be determined by applicator. To deliver the proper rate (2.3 to 4.6 lbs/1000 sq ft), calibrate prior to application of product.

One bag (40 lbs) will cover 1/5 acre (8700 sq ft) at a rate of 4.6 lbs per 1000 sq ft.

The efficacy of **Pendulum 2G** will improve if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. If **Pendulum 2G** is not activated by rainfall or irrigation within 30 days, erratic weed control may result.

Pendulum 2G will not control established weeds.

If weeds should develop prior to activation of herbicide, shallow cultivate to destroy existing weeds or, where practical, remove by hand. When cultivating for any reason, it should be shallow. **Pendulum 2G** may be used before or after applications of herbicides registered for postemergence use (i.e.

Roundup® or **Finale®**) for the control of established weeds.

DO NOT apply sprays containing **Roundup** or **Finale** over the top of desirable plants. A **Pendulum 2G** treatment may be followed by any registered herbicide to control weeds not listed on the **Pendulum 2G** label.

WEED SPECIES CONTROLLED

Pendulum 2G is recommended for preemergence control of the weed species listed. Applications can be made around and over the top of the ornamentals and to the sites listed on this label.

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WEED SPECIES CONTROLLED

Pendulum® 2G granule herbicide is recommended for preemergence control of the weed species listed. Applications can be made around and over the top of the ornamentals and to the sites listed on this label.

GRASSES CONTROLLED	
Common Name	Scientific Name
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 uninervia</i>
Sprangletop, Red	<i>Leptochloa filiformis</i>
Witchgrass	<i>Panicum capillare</i>
Woolly Cupgrass	<i>Eriochloa villosa</i>

BROADLEAF WEEDS CONTROLLED	
Common Name	Scientific Name
Burweed, Lawn	<i>Soliva pterosperma</i>
Carpetweed	<i>Mollugo verticillata</i>
Chickweed, Common	<i>Stellaria media</i>
Chickweed, Mouseear	<i>Cerastium vulgatum</i>
Clover, Hop	<i>Trifolium procumbens</i>
Cudweed	<i>Gnaphalium</i> spp.
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>

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Conditions of Sale and Warranty
<p>The Directions For Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.</p> <p>BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions For Use, subject to the inherent risks, referred to above.</p> <p>TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing Conditions of Sale and Warranty which may be varied only by agreement in writing signed by a duly authorized representative of BASF.</p>

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