241-424

09/12/2003

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF PESTICIDE: <u>x</u> Registration EPA Reg. Number:241-424 Term of Issuance: Conditional Name of Pesticide Product: Pendimethalin 0.86% plus fertilizer

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

- Submit and/or cite all data required for registration/ reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
- 2. Within 18 months of the date of this registration, submit one-year storage stability and corrosion characteristics studies for review and acceptance.
- 3. Add on the front panel, "EPA Reg. No. 241-424" and "EPA Est. No. 241-XX-XX."
- 4. Make the following label changes listed below before you release the product for shipment:
 - a. "Under Caution";

Change "Avoid breathing mist" to "Avoid breathing dust."

b. Under "Personal Protective Equipment":

Replace the glove statement with the following:

"Chemical resistant gloves, made of waterproof materials, such as butyl rubber >14 mils, nitrile rubber >14 mils, or neoprene rubber >14 mils."

c. Under "Direction for Use";

Add "Do not apply this product through any irrigation system. Keep children and Pets out of treated area until dusts have settled."

d. Under "Directions for Use";

Add the following spray drift management statement:

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"Do not allow dust to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, nontarget crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals."

e. Under "Agricultural Use Requirements";

Replace the glove statement with the following:

"Chemical resistant gloves, made of waterproof materials, such as butyl rubber >14 mils, nitrile rubber >14 mils, or neoprene rubber >14 mils."

f. "Under Storage and Disposal";

Change "Storage" to "Pesticide Storage."

g. Under "Application Rates for Turf Weed Control";

The maximum application rate for this product is 233 lbs (2 lbs AI) /acre. Adjust the application rate to this limit.

h. Complete the following sentence:

"NOT FOR USE on for commercial seed production."

- 5. This product contains an active ingredient and a fertilizer. The fertilizer has different variations in percent concentration of total nitrogen (N), available phosphoric acid (P), and soluble potash (K). Your submission includes labels for the following fertilizer compositions:
 - 0.86% AI + 28%(N) + 4%(P) + 8%(K) SCU.
 - 0.86% AI + 25%(N) + 5%(P) + 10%(K) SCU.
 - 0.86% AI + 25%(N) + 4%(P) + 8%(K).
 - 0.86% AI + 25%(N) + 0%(P) + 8%(K) SCU.
 - 0.86% AI + 22%(N) + 4%(P) + 4%(K) SCU.
 - 0.86% AI + 22%(N) + 2%(P) + 5%(K) SCU.
 - 0.86% AI + 19%(N) + 3%(P) + 7%(K).
 - 0.86% AI + 19%(N) + 3%(P) + 5%(K).
 - 0.86% AI + 19%(N) + 2%(P) + 5%(K).
 - 0.86% AI + 19%(N) + 0%(P) + 7%(K).
 - 0.86% AI + 18%(N) + 0%(P) + 12%(K).
 - 0.86% AI + 15%(N) + 3%(P) + 7%(K).

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•	0.86% AI +	12%(N)	+4%(P) +	8%(K).
•			+ 10%(P) +	
•	0.86% AI +	5%(N)	+ 10%(P) +	20%(K).
•	0.86% AI +	5%(N)	+ 0%(P) +	1 7%(K) .
•	0.86% AI +	0%N)	+ 0%(P) +	7%(K).

Submit one copy of your final printed labeling for the above products before you release these products for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of these products constitutes acceptance of these conditions. A stamped copy of each label is enclosed for your records.

Your submission includes a confidential statement of formula (CSF) for each variation in fertilizer composition. The current Agency filing practice for products containing fertilizers is listing all fertilizer compositions as an addendum to the CSF. Please list all fertilizer compositions in an addendum when you submit an alternate CSF in the future.

Enclosures

CONCURRENCES							
SINBOL -	7505C	7505C					
SURNAME -	Bien	Torickins					
DATE	8-27-03	quests					
EPA Form 132	0-1 (12-70)					OFFICIAL FIL	E COPY

PENDULUM® 0.86% PLUS FERTILIZER Preemergent Weed Control

0.86% pendimethalin + 28-4-8 SCU Fertilizer

FOR USE ON TURFGRASSES AND ESTABLISHED ORNAMENTALS IN THE LANDSCAPE

ACTIVE INGREDIENT:

pendimethalin, N-(1-ethylpropyl)-3,4-dimethy	1-2, 6-dinitrobenzenamine0.86%
INERT INGREDIENTS.	<u>99.14%</u>
TOTAL EPA Reg. No. 241- リチリ	

GUARANTEED ANALYSIS

Total Nitrogen (N).	28.00%
1.5% Ammoniacal Nitrogen	
26.5% Urea Nitrogen*	
Available Phosphoric Acid (P ₂ O ₅)	4.00%
Soluble Potash (K ₂ O).	8.00%
Derived from: Urea, Diammonium Phosphate, Sulfur Coated Urea and Sulfate of	Potash.
* 7.0% Slowly Available Nitrogen from Sulfur Coated Urea.	

KEEP OUT OF REACH OF CHILDREN CAUTION PRECAUCION!

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

Have the product container or label with you when calling a poison control center or doctor, or for going for treatment.

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

See Inside Leaflet For Additional Precautionary Statements and Directions For Use.

ACCEPTED with COMMENTS in EPA Letter Dated

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 241-424 © 2002 BASF Corporation All rights reserved SEP 1 2 2003 NVA 2002-04-123-0075

BASF Corporation 26 Davis Drive Research Triangle Park, NC 27709



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	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. 				
If on skin or clothing	 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 in eyes Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lense, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for advice. 				
If 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. 			
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-HELP (4357).

Precautionary Statements

Hazards to Humans and Domestic Animals CAUTION

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

Personal Protective Equipment (PPE):

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

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material (such as nitrile, butyl, neoprene, and/or barrier laminate).
- Shoes plus socks
- Protective eyewear

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 0.86% PLUS FERTILIZER in greenhouses, shadehouses or other enclosed structures.

NOT FOR USE on for commercial seed production.

DO NOT APPLY this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

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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 any waterproof material (such as nitrile, butyl, neoprene, and/or barrier laminate).
- 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 0.86% PLUS FERTILIZER. The use of PENDULUM 0.86% PLUS FERTILIZER not consistent with this label can result in injury to crops, animals, or persons. Keep containers closed to avoid spills and contamination.

DISCLAIMER

The label instructions for use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the use or application of the product contrary to label instructions, all of which are beyond the control of BASF Corporation (BASF). All such risks shall be assumed by the user.

BASF warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risk referred to above.

Any damages arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or values or any other special or indirect damages.

BASF makes no other express or implied warranty, including other express or implied warranty of FITNESS or of MERCHANTABILITY.

GENERAL INFORMATION

PENDULUM 0.86% PLUS FERTILIZER is a combination preemergent herbicide and fertilizer formulated to provide control of most annual grasses and certain broadleaf weeds found in any turfgrass site (lawns, sod, turf areas). Examples of such sites include, but are not limited to: golf courses, lawns in residential, commercial establishments, or grounds around military or other institutions, parks, airports, roadsides, schools or cemeteries; athletic fields or recreational areas; prairiegrass areas; and sod farms. PENDULUM 0.86% PLUS FERTILIZER can be used around established ornamentals in the landscape and in established wildflower plantings. PENDULUM 0.86% PLUS FERTILIZER may be used for hardwood and conifer regeneration on conservation reserve program land or similar areas.

PENDULUM 0.86% PLUS FERTILIZER is labeled for use on the following turfgrass species: Kentucky bluegrass, perennial ryegrass, fine fescue, tall fescue, bentgrass, <u>Poa annua</u> (except putting greens and tees), bermudagrass, St. Augustinegrass, bahiagrass, centipedegrass, zoysiagrass and blends of these grasses.

PENDULUM 0.86% 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 recommended rate using a properly calibrated spreader. The efficacy of PENDULUM 0.86% PLUS FERTILIZER will be improved if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. This will remove the product from the turfgrass foliage and establish a preemergent herbicide barrier in the soil. If PENDULUM 0.86% 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 0.86% 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 Vantage®¹, Acclaim Extra®², or MSMA containing products, to control emerged weeds. Broadleaf weeds can be controlled using Trimec^{TM3} Three-Way^{TM4}, 2-4,D, and other similar products.

Applied according to label directions, and under normal growing conditions, PENDULUM 0.86% PLUS FERTILIZER. will not cause injury to desirable plants. Over-application can result in stand loss, plant injury, or soil residues. Uneven application can decrease weed control or cause plant injury.

Seedling diseases, cold weather, excessive moisture, high soil pH, high soil salt concentration, or drought can weaken seedlings and plants, and increase the possibility of plant damage from PENDULUM 0.86% 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 recommended.

Avoid application when winds may cause drift.

Recommended Rates:					
			lb	s. per acre	
Spreader	Ground Speed	Spreading Width	<u>152</u>	227	<u>303</u>
LESCO Rotary	3 mph	9 ft.	C 1/2 10"/32	D 1/2 12"/32	E 1/2 14"/32
Scotts R-7,R-7x	3 mph	12 ft.	F	I	ĸ
Scotts R-8, R-8a	3 mph	11 ft.	J	L 1/2	N
1 _{Lely}	4.5 mph	30 ft.	4 1/4 III	5 1/2 III	6 1/2 III
² Vicon	4.5 mph	30 ft.	21	25	29

175 lbs. treats 1 acre delivering 1.5 lb. ai/A and 1.12 lb. N/1,000 ft.²

¹Models WTR, WRF, HR, and 1250 PTO-450 rpm ²Vicon - All models PTO-540 rpm

Important: Spreader settings are only approximate. Age, condition of spreader, and operator speed can cause wide variation in application rate. Spreader should be calibrated prior to each application by the operator.

WEED SPECIES CONTROLLED

PENDULUM 0.86% PLUS FERTILIZER is recommended for preemergence control of the weed species listed. Applications can be made around and over the top of the ornamentals and to the sites listed on this label.

GRASSES CONTROLLED

<u>Common Name</u>	<u>Scientific Name</u>
Barnyardgrass	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

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Panicum, Texas Sandbur, Field Signalgrass Sprangletop, Mexican Sprangletop, Red Witchgrass Woolly Cupgrass

BROADLEAF WEEDS CONTROLLED

Common Name

Burweed, Lawn Carpetweed Chickweed, Common Chickweed, Mouseear Clover, Hop Cudweed Eveningprimrose Fiddleneck Filaree Henbit Knotweed, prostrate Kochia Lambsquarters Pigweed Puncturevine Purslane Pusley, Florida Rocket, London Shepherdspurse Smartweed, Pennsylvania Speedwell, Corn Spurge, Annual Spurge, Prostrate Woodsorrel, Yellow Velvetleaf (Buttonweed)

Panicum texanum Cenchrus incertus Brachiaria platyphylla Leptochloa uninervia Leptochloa filiformis Panicum capillare Eriochloa villosa 12/69

Scientific Name

Soliva pterosperma Mollugo verticillata Stellaria media Cerastium vulgatum Trifolium procumbens Gnaphalium spp. Oenothera biennis Amsinckia intermedia Erodium spp. Lamium amplexicaule Polygonum aviculare Kochia scoparia Chenopodium album Amaranthus spp. Tribulus terrestris Portulaca oleracea Richardia scabra Sisvmbrium irio Capsella bursa-pastoris Polygonum pensylvanicum Veronica arvensis Euphorbia spp. Euphorbia numistrata Oxalis stricta Abutilon theophrasti

TURFGRASSES

APPLICATION RATES FOR TURF WEED CONTROL $^{\rm 1}$

Turfgrass Species	Weeds	Rates of PENDULUM 0.86% PLUS FERTILIZER	Comments
COOL SEASON GRASSES			
Bluegrass, Kentucky Fescue, fine Fescue, tall Ryegrass, perennial	crabgrass foxtail <i>Poa annua</i> barnyardgrass fall panicum oxalis prostrate spurge purslane knotweed evening primrose hop clover	175-233 lbs./acre as the initial application prior to weed germination in the spring.	Apply a repeat application of 116-175 lbs./acre after 5 - 8 weeks for extended control or where heavy weed infestations are expected.
	goosegrass	Residential ² Turf Uses Only: 116-175 lbs./acre in the spring prior to weed germination.	Apply a repeat application of 116 lbs./acre after 5 – 8 weeks if the lower rates was used initially or for extended goosegrass
		Golf Course and Commercial Turf Uses: 116-350 lbs./acre in the spring prior to weed germination.	control.
	cudweed <i>Poa annua</i> chickweed lawn burweed henbit corn speedwell	175-233 lbs./acre	Apply in late summer or early fall prior to weed germination.

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Bentgrass or established *Poa annua*⁴ (1/2 inch height or taller) crabgrass foxtail *Poa annua* barnyardgrass fall panicum oxalis prostrate spurge purslane knotweed evening primrose hop clover 175 lbs./acre in the spring prior to weed germination.

Apply a repeat application of 116-175 lbs./acre after 5 -8 weeks where heavy weed infestations are expected.

goosegrass	175 lbs./acre in the spring prior to weed germination. Apply a repeat application of 175 lbs./acre after5 6- 8 weeks.	
cudweed Poa annua chickweed lawn burweed henbit corn speedwell	175-233 lbs./acre	Apply in late summer or early fall prior to weed germination.

WARM SEASON

GRASSES			
Bahiagrass	Crabgrass	Residential ² Turf	Apply a repeat
Bermudagrass	foxtail,	Uses Only:	application of 116-
Buffalograss	Poa annua	175-233 lbs./acre in	175 lb./acre after 5-8
Centipedegrass	Barnyardgrass	the spring prior to	weeks if necessary.
Fescue, tall	fall panicum	weed germination.	
St. Augustinegrass	oxalis		
Zoysiagrass	prostrate spurge	Golf Course and	
	purslane	Commerical Turf	
	knotweed	Uses: 175-350	
	evening primrose	lbs./acre in the spring	
	hop clover	prior to weed	
	*	germination.	
	goosegrass	175 lbs./acre	An additional
		prior to weed	application of
		germination in	175 lbs./acre may
		the spring.	be applied for
		Apply a repeat	extended goosegrass
		application of	control 8 weeks
		175-233 lbs./acre	after the second



after 5 – 8 weeks. ap

application.

cudweed	175-233 lbs./acre	Apply in late
Poa annua		summer or early
chickweed		fall prior to
lawn burweed		weed germination.
henbit		·
corn speedwell		

¹ DO NOT exceed a maximum rate of 233 pounds <u>per acre per application</u> for use on residential turfgrass.

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

³ DO NOT exceed a maximum rate of 233 pounds per acre per application for use on sod farms.

⁴ Not for use on bentgrass or *Poa annua* greens or tees.

TURFGRASS PRECAUTIONS

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

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

Do not use on bentgrass or Poa annua greens and tees or injury may occur.

Delay reseeding or winter overseeding of treated turfgrass for at least three (3) months following the last PENDULUM 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 0.86% PLUS FERTILIZER 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, MCPA, MSMA, or similar product is recommended to control established weeds.

LANDSCAPE AND GROUNDS MAINTENANCE

PENDULUM 0.86% 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 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 <u>shallow</u> cultivate to destroy existing weeds or, where practical, remove by hand, or apply a postemergence product labeled for such use prior to an application of PENDULUM 0.86% PLUS FERTILIZER. PENDULUM 0.86% PLUS FERTILIZER may be used before or after applications of herbicides registered for postemergence use (i.e. Vantage®, Roundup PRO®⁵ or Finale®⁶) for the control of established weeds. Do not apply sprays containing Roundup or Finale over the top of desirable plants, and follow the label restrictions. A PENDULUM 0.86% PLUS FERTILIZER treatment may be followed by any registered herbicide to control weeds not listed on the PENDULUM 0.86% PLUS FERTILIZER label.

ORNAMENTAL BULBS

PENDULUM 0.86% 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 0.86% PLUS FERTILIZER prior to, during or after bulb emergence. If weeds have already germinated use a labeled postemergence herbicide to control emerged weeds.

WILDFLOWERS

PENDULUM 0.86% PLUS FERTILIZER herbicide may be applied for control of susceptible annual weeds in plantings of wildflowers listed on the label (Black-eyed Susan, California Poppy, Coreopsis, Oxeye Daisy, etc.). PENDULUM 0.86% PLUS FERTILIZER may be applied to established perennial wildflowers before emergence of weeds or wildflowers. For wildflowers being established from seed, apply PENDULUM 0.86% PLUS FERTILIZER 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 0.86% PLUS FERTILIZER may vary greatly. Careful testing on desirable species is recommended to determine if area-wide applications can be made.

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ORNAMENTAL PRECAUTIONS

Apply PENDULUM 0.86% 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 0.86% 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 any PENDULUM product or injury may occur.

RECOMMENDED ORNAMENTAL SPECIES

PENDULUM 0.86% PLUS FERTILIZER is safe around and over the top of the established plants listed below.

TREES

<u>Common Name</u>

Alder, European Black Apple Arborvitae, American Arbutus Ash, Red Ash, White Aspen, Bigtooth Aspen, Quaking Basswood Birch, European Weeping Birch, River Buckeye, Red Cedar, White Chamaecyparis, Boulevard Cherry, Black Cherry, Choke Cherry, Kwanzan Cherry, Nanking Cottonwood Crabapple Crepe Myrtle Cryptomeria, Japanese Cedar Cypress, Bald Cypress, Leyland Dogwood, Flowering Dogwood, Korean Dogwood, Silky Dogwood, Shrub Elm Fir, Balsam

Scientific Name

Alnus glutinosa Malus spp. Thuja occidentalis Arbutus spp. Fraxinus pennsylvanica Fraxinus americana Populus grandidentata Populus tremuloides Tilia spp. Betula pendula Betula nigra Aesculus pavia Thuja occidentalis Chamaecyparis pisifera Prunus serotina Prunus virginiana Prunus serrulata Prunus tomentosa Populus deltoides Malus spp. Lagerstroemia indica Cryptomeria japonica Taxodium distichum Cupressocyparis leylandii Cornus florida Cornus kousa Cornus amomum Cornus spp. Ulmus japonica Abies balsamae

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Fir. Douglas Fir, Fraser Fir, White Franklinia Ginkgo Gum, Black Gum. Sour Haw, Black Hawthorn Hemlock, Canada Hemlock, Eastern Holly, American Honeylocust Lilac, Common Lilac, Japanese Tree Linden Magnolia, Saucer Magnolia, Southern Magnolia, Star Maidenhair Tree Maple, Paper-bark Maple, Norway Maple, Japanese Maple, Red Maple, Sugar Nannyberry, Rusty Oak, Chinquapin Oak, Live Oak, Pin Oak, Red Oak, Swamp Chestnut Oak, Water Oak, White Oak, Willow Olive Palm, Date Palm, Fan Palm, Pindo Palm, Washington Peach Pear, Bradford Pecan Pine, Austrian Pine, Italian Stone Pine, Loblolly Pine, Monterey Pine, Red Pine, Scotch Pine, Virginia

Pseudotsuga menziesii Abies fraseri Abies concolor Franklinia spp. Ginkgo biloba Nyssa sylvatica Nyssa sylvatica Viburnum prunifolium Crataegus spp. Tsuga canadensis Tsuga canadensis Ilex opaca Gleditsia triacanthos Syringa vulgaris Syringa reticulata Tilia spp. Magnolia soulangiana Magnolia grandiflora Magnolia stellata Ginkgo biloba Acer griseum Acer platanoides Acer palmatum Acer rubrum Acer saccharum Viburnum rufidulum Quercus muehlenbergii Quercus virginiana *Quercus palustris* Ouercus rubra Quercus michauxii Ouercus nigra Quercus alba Quercus phellos Olea europaea Phoenix spp. Washingtonia spp. Butia spp. Washingtonia spp. Prunus persica Pyrus calleryana 'Bradford' Carya illinoensis Pinus nigra Pinus pinea Pinus taeda Pinus radiata Pinus resinosa Pinus sylvestris Pinus virginiana

19/69

Pine. White Plum, Purple Leaf Poplar, Black Redcedar, Eastern Redcedar, Western **Red Ironbark** Redwood, Dawn Sequoia, Giant Serviceberry Sourwood Spruce, Colorado Blue Spruce, Dwarf Alberta Spruce, Norway Spruce, White Sweetgum Sycamore Trachycarpus Tulip tree Walnut, Black Willow, Weeping Yellowwood

SHRUBS

Common Name

Abelia, Glossy Aucuba, Gold Azalea Bamboo, Heavenly Barberry Barberry, Japanese Blue Indigo Bush Bottlebrush, Lemon Boxwood, Common Boxwood, Japanese Brittlebush **Buttonbush** Camellia Cape Jasmine Cassia, Feathery Cordvline Correa Cotoneaster Cotoneaster, Bearberry Cotoneaster, Rock Cypress, Italian Cypress, Leyland

Pinus strobus Prunus cerasifera Populus nigra Juniperus virginiana Thuja plicata Eucalyptus sideroxylon 'Rosea' Metasequoia glyptostroboides Sequoiadendron giganteum Amelanchier laevis Oxydendrum arboreum Picea pungens Picea glauca 'albertiana' Picea abies Picea glauca Liquidambar styraciflua Platanus occidentalis Trachycarpus spp. Liriodendron tulipifera Juglans nigra Salix babylonica Cladrastis lutea

Scientific Name

Abelia grandiflora_ Aucuba japonica Rhododendron sp. Nandina domestica Berberis gladwynensis Berberis thunbergii Dalea gregii Callistemon citrinus Buxus sempervirens Buxus microphylla Encelia farinosa Cephalanthus occidentalis Camellia japonica Gardenia jasminoides Cassia artemisioides Cordyline spp. Correa spp. Cotoneaster apiculatus Cotoneaster dammeri Cotoneaster horizontalis Cupressus sempervirens Cupressocyparis leylandii

Deutzia. Slender Dogwood, Red Twig Elaeagnus Escallonia Euonymus Euonymus, Golden Euonymus, Winged Firethorn Forsythia, Border **Fragrant** Olive Fuschia, California Gardenia Hawthorne, Indian Hibiscus Holly, Chinese Holly, Japanese Holly, Fosters Holly, Savannah Holly, Yaupon Honeysuckle, Bush Hopseed Bush Hopbush Hydrangea Juniper Juniper, Chinese Juniper, Shore Juniper, Trailing Laurel, Cherry Laurel, Mountain Laurel, Otto Luyken Laurel, Schipka Laurustinus Lavender, English Leucothoe Leucothoe, Coast Lilac, Cut-leaf Lilv-of-the-Nile Mahonia Mock Orange Myrtle, Compact Myrtle, Wax Nandina Oleander Oregon Grape Osmanthus Palm, European Fan Palm, Mediterranean Fan Phlox, Prickly Photinia, Fraser

Deutzia gracilis Cornus sericea Elaeagnus ebbingei Escallonia fradesii Euonymus fortunei Euonymus japonica Euonvmus alata Pyracantha coccinea Forsythia intermedia Osmanthus fragrans Zauschineria californica Gardenia jasminoides Raphiolepis indica Hibiscus svriacus Ilex cornuta Ilex crenata Ilex attenuata 'Fosteri' Ilex attenuata Ilex vomitoria Diervilla lonicera Dodonaea viscosa Dodonaea viscosa Hydrangea macrophylla Juniperus sp. Juniperus chinensis v. pfitzer Juniperus conferta Juniperus horizontalis Prunus laurocerasus Kalmia latifolia Prunus laurocerasus Prunus schipkanensis Viburnum tinus Lavandula angustifolia Leucothoe fontanesiana Leucothoe axillaris Syringa laciniata Agapanthus africanus Mahonia aquifolium Pittosporum tobira Myrtus communis Myrica cerifera Nandina domestica Nerium oleander Mahonia aquifolium Osmanthus fragrans Chamaerops humilis Chamaerops spp. Leptodactylon californicum Photinia X Fraseri

20/69

21/69

Pieris, Japanese Pine, Mugo Plum, Natal Privet, California Privet, Glossy Privet, Variegated Privet Waxleaf **Pyracantha** Quince, Flowering Ranger, Texas Redroot Rhododendron Robira Rose Spice Plant Spiraea Spiraea, Anthony Waterer Spiraea, Japanese Sweet Bay Trumpet Bush Verbena, Lemon Viburnum Vitex Weigela Wild Lilac Wisteria Xylosma Yellowbells Yew Yew, Japanese Yew, Southern Yucca, Adam's Needle Yucca, Weeping

GROUND COVERS

Common Name

Ajuga Baby Sun Rose Beach Strawberry Capeweed Cinquefoil, Spring Coyotebrush, Dwarf Daisy, Trailing African Dymondia Gazania Iceplant, Large Leaf Ivy, English

Pieris japonica Pinus mugo Carissa grandiflora Ligustrum ovalifolium Ligustrum lucidum Ligustrum sinensis Ligustrum japonicum Pyracantha coccinea Chaenomeles japonica Leucophyllum frutescens Ceanothus spp. Rhododendron spp. Pittosporum tobira Rosa spp. Illicium parviflorum Spiraea vanhouttei Spiraea X bumalda Spiraea japonica Laurus nobilis Tecoma stans Aloysia triphylla Viburnum suspensum Vitex spp. Weigela florida Ceanothus spp. Wisteria spp. Xylosma congestum Tecoma stans Taxus media Taxus cuspidata Podocarpus macrophyllus Yucca filamentosa Yucca pendula

Scientific Name

Ajuga reptans Aptenia cordifolia Fragaria chiloensis Arctotheca calendula Potentilla verna Baccharis pitularis Osteospermum fruticosum Dymondia margaretae Gazania splendens Carpobrotus edulis Hedera helix

22/69

Ivy, Geranium Jasmine, Asiatic Jasmine, Primrose Jessamine, Carolina Manzanita, Bearberry Miscanthus Mondograss Morninglory Myoporum Pachysandra Potentilla Periwinkle, Common Red Apple Rosemary Rose-Of-Sharon Sand Strawberry Sedum St. Johnswort, Creeping Stonecrop Verbena, Peruvian Vervain Vetch, Crown Vinca or Greater Periwinkle Wintercreeper

PERENNIALS

Common Name

Acacia Asparagus Aster, New York Aster, Stokes Astilibe (False Spirea) **Babys Breath** Beard-Tongue Bellflower **Bird of Paradise** Black-eved Susan **Blanket** Flower **Bleeding Heart** Butterfly Weed California Poppy Calla Lily Canna, Common Garden Carex Cast Iron plant Chincherinchee

Pelargonium peltatum Trachelospermum asiaticum Jasminum mesnyi Gelsemium sempervirens Arctostaphylos uva-ursi Miscanthus spp. Ophiopogon japonica Convolvulus spp. Myoporum parviflolium Pachysandra terminalis Potentilla fruticosa Vinca minor Aptenia cordifolia Rosemarinus officinalis Hypericum calycinum Fragaria chiloensis Sedum spurium Hypericum calycinum Sedum spurium Verbena peruviana Verbena peruviana Vicia sativa Vinca major Euonymous fortunei

Scientific Name

Acacia redolens Asparagus spp. Aster novi-belgii Stokesia laevis Astilibe spp. Gypsophila elegans Penstemon spp. Campanula spp. Caesalpinia pulcherrima Rudbeckia hirta *Gaillardia* x grandiflora Dicentra spectabilis Asclepias tuberosa Eschscholzia california Zantedeschia aethiopica Canna generalis 'Lucifer' Carex spp. Aspidistra elatior Ornithogalum thyrsoides

23/69

Clover, Crimson Columbine Coreopsis Crinum Lily Crocus Daffodil Daylily False dragonhead **Fiary Duster** Fern, Asparagus Fern, Tree Fern, Boston Fern, Leatherleaf* Fortnight Lily Foxglove, Common Freesia Fushcia, Arizona Gayfeather Gaillardia Geum Gladiolus Heather, Dwarf Hosta Hyssop, Sunset Indian Blanket Lantana, Weeping Leopards Bane Lily Liriope, Big Blue Liriope, Creeping Liriope, Variegated Loosestrife, Garden Moonbeam Montbretia Nightshade Orchid, Peacock Oxeye Daisy Peony, Chinese Purple Coneflower Purple Loosestrife Rosemary Ruscus, Israeli Sage, Russian Sedge Shasta Daisy Sweet Flag Tickseed Texas Bluebonnet Tulip

Trifolium incarnatum Aquilegia 'McKana Giant' Coreopsis lanceolata Crinum spp. Crocus spp. Narcissus spp. Hemerocallis spp. Physostegia virginiana Calliandra eriophylla Asparagus officinalis Asparagus virgatus Nephrolepis exaltata Rumohra adiantiformis Moraea spp. Digitalis purpurea Freesia x hybrida Zauschneria Californica Liatris spp. Gaillardia pulchella Geum spp. Gladiolus spp. Calluna vulgaris Hosta spp. Agastache rupestris Gaillardia pulchella Lantana montevidensis Doronicum cordatum Lillium spp. Liriope muscari Liriope spicata Liriope muscari Lysimachia punctata Coreopsis verticillata Crocosmia crocosmiiflora Solanum spp. Acidanthera bicolor Chrysanthemum leucanthemum Paeonia lactiflora Echinacea purpurea Lythrum virgatum Rosmarinus officinalis Ruscus hypophyllum Perovskia atriplicifolia Carex spp. *Chrysanthemum* x superbum Acorus calamus Coreopsis lanceolata Lupinus texenis Tulipa spp.

Twinspur Wonder Flower Yarrow Zephyr Lily Diasciascia barbaerae Ornithogalum thyrsoides Achillea millefolium Zephyranthes spp.

* Applications of PENDULUM 0.86% PLUS FERTILIZER to immature ferns (during periods of new growth of fronds) may result in some injury.

ORNAMENTAL GRASSES

Common Name

Beach Grass Fescue, Blue Fescue, Sheep Fountain Grass Pampas Grass Reed Canary Grass Reed, Giant Ribbon Grass Tufted Hair Grass

BEDDING PLANTS*

Common Name

Ageratum Alyssum Anemone, Poppy-flowered Artemesia Balloonflower Begonia Cabbage, Ornamental Caladium China Aster Crocosmia, Montebretia Dahlia Dianthus Dusty Miller Gazania, Treasure Flower Gazania, Trailing Geranium Gloxinia Impatiens Kale, Ornamental Marigold, African Moss Rose Mum, Garden

Scientific Name

Ammophila breviligulata Festuca ovina Festuca ovina Pennisetum setaceum Cortaderia selloana Phalaris arundinacea Arundo spp. Phalaris arundinacea Deschampsia caespitosa

Scientific Name

Ageratum houstonianum Alyssum saxatile Anemone coronaria Artemesia spp. Platycodon grandiflorum Begonia spp. Brassica olereacea Caladium spp. Callistephus chinensis Crocosmia x crocosmiiflora Dahlia spp. Dianthus barbatus Senecio cineraria Gazania rigens Gazania rigens leucolaena Geranium sp. Gloxinia simningia Impatiens sp. Brassica napus Tagetes erecta Portulaca grandiflora Chrysanthemum spp.

24/69

Pansy, Garden Periwinkle, Rose

Petunia Plumosa Cockscomb Portulaca Salvia Snapdragon Statice Sweet William Vinca or Periwinkle Zinnia Viola x Wittrockiana Catharanthus roseus or Vinca rosea Petunia spp. Celosia cristata Portulaca grandiflora Salvia splendens Antirrhinum majus Limonium spp. Dianthus barbatus Catharanthus roseus Zinnia sp. 25/69

*After planting bedding plants and before PENDULUM 0.86% PLUS FERTILIZER is applied, area to be treated should be watered sufficiently to pack soil around roots.

PENDULUM 0.86% 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 recommended rate. Treated plants should be evaluated 1-2 months following treatment for possible injury. THE USER ASSUMES RESPONSIBILITY FOR ANY CROP DAMAGE OR OTHER LIABILITY. Do not treat plants grown for food or feed. Do not use treated plants for food or feed.

- ¹ PENDULUM and Vantage are registered trademarks of BASF Corporation
- ^{2,6}₃ Acclaim Extra and Finale are registered trademarks of Bayer Environmental Sciences
- ³ Trimec is a trademark of PBI Gordon Corporation
- ⁴ Three-Way is a trademark of Lesco Inc.
- ⁵ Roundup PRO is a registered trademark of Monsanto Company

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BASF Corporation P.O. Box 13258 Research Triangle Park, NC 27709



Specialty Products

PENDULUM® 0.86% PLUS FERTILIZER Preemergent Weed Control

0.86% pendimethalin + 25-4-8 Fertilizer

FOR USE ON TURFGRASSES AND ESTABLISHED ORNAMENTALS IN THE LANDSCAPE

ACTIVE INGREDIENT:

pendimethalin, N-(1-ethylpropyl)-3,4-dimethyl-2	, 6-dinitrobenzenamine
INERT INGREDIENTS.	<u>99.14%</u>
ТОТАL EPA Reg. No. 241- ИЕЧ	

GUARANTEED ANALYSIS

Total Nitrogen (N).	25.00%
1.5% Ammoniacal Nitrogen	
23.5% Urea Nitrogen	
Avaliable Posphoric cid (P ₂ O ₅)	4.00%
Soluble Potash (K ₂ O).	8.00%
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 this label, find someone to explain it to you in detail.)

Have the product container or label with you when calling a poison control center or doctor, or for going for treatment.

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

See Inside Leaflet For Additional Precautionary Statements and Directions For Use.

ACCEPTED

with COMMENTS

in EPA Letter Dated

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. SEF 1 2 2000

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BASF Corporation 26 Davis Drive Research Triangle Park, NC 27709



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	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.
If on skin or clothing	 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 in eyes	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lense, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for advice.
If 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.

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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-HELP (4357).

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

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

Personal Protective Equipment (PPE):

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

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material (such as nitrile, butyl, neoprene, and/or barrier laminate).
- Shoes plus socks
- Protective eyewear

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

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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 0.86% PLUS FERTILIZER in greenhouses, shadehouses or other enclosed structures.

NOT FOR USE on for commercial seed production.

DO NOT APPLY this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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 any waterproof material (such as nitrile, butyl, neoprene, and/or barrier laminate).
- 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 0.86% PLUS FERTILIZER. The use of PENDULUM 0.86% PLUS FERTILIZER not consistent with this label can result in injury to crops, animals, or persons. Keep containers closed to avoid spills and contamination.

DISCLAIMER

The label instructions for use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the use or application of the product contrary to label instructions, all of which are beyond the control of BASF Corporation (BASF). All such risks shall be assumed by the user.

BASF warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risk referred to above.

Any damages arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or values or any other special or indirect damages.

BASF makes no other express or implied warranty, including other express or implied warranty of FITNESS or of MERCHANTABILITY.

GENERAL INFORMATION

PENDULUM 0.86% PLUS FERTILIZER is a combination preemergent herbicide and fertilizer formulated to provide control of most annual grasses and certain broadleaf weeds found in any turfgrass site (lawns, sod, turf areas). Examples of such sites include, but are not limited to: golf courses, lawns in residential, commercial establishments, or grounds around military or other institutions, parks, airports, roadsides, schools or cemeteries; athletic fields or recreational areas; prairiegrass areas; and sod farms. PENDULUM 0.86% PLUS FERTILIZER can be used around established ornamentals in the landscape and in established wildflower plantings. PENDULUM 0.86% PLUS FERTILIZER may be used for hardwood and conifer regeneration on conservation reserve program land or similar areas.

PENDULUM 0.86% PLUS FERTILIZER is labeled for use on the following turfgrass species: Kentucky bluegrass, perennial ryegrass, fine fescue, tall fescue, bentgrass, <u>Poa annua</u> (except putting greens and tees), bermudagrass, St. Augustinegrass, bahiagrass, centipedegrass, zoysiagrass and blends of these grasses.

ds as they germinate, but will not control

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PENDULUM 0.86% 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.

APPLICATION INSTRUCTIONS

Apply product uniformly at the recommended rate using a properly calibrated spreader. The efficacy of PENDULUM 0.86% PLUS FERTILIZER will be improved if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. This will remove the product from the turfgrass foliage and establish a preemergent herbicide barrier in the soil. If PENDULUM 0.86% 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 0.86% 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 Vantage®¹, Acclaim Extra®², or MSMA containing products, to control emerged weeds. Broadleaf weeds can be controlled using Trimec^{TM3} Three-Way^{TM4}, 2-4,D, and other similar products.

Applied according to label directions, and under normal growing conditions, PENDULUM 0.86% PLUS FERTILIZER. will not cause injury to desirable plants. Over-application can result in stand loss, plant injury, or soil residues. Uneven application can decrease weed control or cause plant injury.

Seedling diseases, cold weather, excessive moisture, high soil pH, high soil salt concentration, or drought can weaken seedlings and plants, and increase the possibility of plant damage from PENDULUM 0.86% 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 recommended.

Avoid application when winds may cause drift.

commended Rates	3:				
			lbs. per acre		
Spreader	Ground Speed	Spreading Width	<u>152</u>	227	<u>303</u>
LESCO Rotary	3 mph	9 ft.	C 1/2	D 1/2	E 1/2
~ ~ ~ ~ ~ ~	- ·		10"/32	12"/32	14"/32
Scotts R-7,R-7x	3 mph	12 ft.	F	Ι	K
Scotts R-8,R-8a	3 mph	11 ft.	J	L 1/2	Ν
1 _{Lely}	4.5 mph	30 ft.	4 1/4 III	5 1/2 III	6 1/2 III
² Vicon	4.5 mph	30 ft.	21	25	29

treats 1 acre delivering 1 5 lb ai/A and 1 0 lb N/1 000 ft 2 175 lbs

Models WTR, WRF, HR, and 1250 P10-450 rpm ²Vicon - All models PTO-540 rpm

Important: Spreader settings are only approximate. Age, condition of spreader, and operator speed can cause wide variation in application rate. Spreader should be calibrated prior to each application by the operator.

WEED SPECIES CONTROLLED

PENDULUM 0.86% PLUS FERTILIZER is recommended for preemergence control of the weed species listed. Applications can be made around and over the top of the ornamentals and to the sites listed on this label.

GRASSES CONTROLLED

• •

<u>Common Name</u>	<u>Sciențific Name</u>
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 Sandbur, Field Signalgrass Sprangletop, Mexican Sprangletop, Red Witchgrass Woolly Cupgrass

BROADLEAF WEEDS CONTROLLED

Common Name

Burweed, Lawn Carpetweed Chickweed, Common Chickweed, Mouseear Clover, Hop Cudweed Eveningprimrose Fiddleneck Filaree Henbit Knotweed, prostrate Kochia Lambsquarters Pigweed Puncturevine Purslane Pusley, Florida Rocket, London Shepherdspurse Smartweed, Pennsylvania Speedwell, Corn Spurge, Annual Spurge, Prostrate Woodsorrel, Yellow Velvetleaf (Buttonweed)

Panicum texanum Cenchrus incertus Brachiaria platyphylla Leptochloa uninervia Leptochloa filiformis Panicum capillare Eriochloa villosa

Scientific Name

Soliva pterosperma Mollugo verticillata Stellaria media Cerastium vulgatum Trifolium procumbens Gnaphalium spp. Oenothera biennis Amsinckia intermedia Erodium spp. Lamium amplexicaule Polygonum aviculare Kochia scoparia Chenopodium album Amaranthus spp. Tribulus terrestris Portulaca oleracea Richardia scabra Sisvmbrium irio Capsella bursa-pastoris Polygonum pensylvanicum Veronica arvensis Euphorbia spp. Euphorbia numistrata Oxalis stricta Abutilon theophrasti

TURFGRASSES

APPLICATION RATES FOR TURF WEED CONTROL $^{\rm 1}$

Turfgrass Species	Weeds	Rates of PENDULUM 0.86% PLUS FERTILIZER	Comments
COOL SEASON GRASSES	· · · · · · · · · · · · · · · · · · ·		
Bluegrass, Kentucky Fescue, fine Fescue, tall Ryegrass, perennial	crabgrass foxtail <i>Poa annua</i> barnyardgrass fall panicum oxalis prostrate spurge purslane knotweed evening primrose hop clover	175-233 lbs./acre as the initial application prior to weed germination in the spring.	Apply a repeat application of 116-175 lbs./acre after 5 - 8 weeks for extended control or where heavy weed infestations are expected.
	goosegrass	Residential ² Turf Uses Only: 116-175 lbs./acre in the spring prior to weed germination.	Apply a repeat application of 116 lbs./acre after $5 - 8$ weeks if the lower rates was used initially or for extended goosegrass
		Golf Course and Commercial Turf Uses: 116-350 lbs./acre in the spring prior to weed germination.	control.
	cudweed <i>Poa annua</i> chickweed lawn burweed henbit corn speedwell	175-233 lbs./acre	Apply in late summer or early fall prior to weed germination.

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Bentgrass or established <i>Poa annua</i> ⁴ (1/2 inch height or taller)	crabgrass foxtail <i>Poa annua</i> barnyardgrass fall panicum oxalis prostrate spurge purslane knotweed evening primrose hop clover	175 lbs./acre in the spring prior to weed germination.	Apply a repeat application of 116- 175 lbs./acre after 5 - 8 weeks where heavy weed infestations are expected.
· · ·	goosegrass	175 lbs./acre in the spring prior to weed germination. Apply a repeat application of 175 lbs./acre after5 6- 8 weeks.	
	cudweed Poa annua chickweed lawn burweed henbit corn speedwell	175-233 lbs./acre	Apply in late summer or early fall prior to weed germination.
WARM SEASON GRASSES		· · · · · · · · · · · · · · · · · · ·	
Bahiagrass Bermudagrass Buffalograss Centipedegrass Fescue, tall St. Augustinegrass Zoysiagrass	Crabgrass foxtail, <i>Poa annua</i> Barnyardgrass fall panicum oxalis prostrate spurge purslane knotweed evening primrose hop clover	Residential ² Turf Uses Only: 175-233 lbs./acre in the spring prior to weed germination. Golf Course and Commerical Turf Uses: 175-350 lbs./acre in the spring prior to weed germination.	Apply a repeat application of 116- 175 lb./acre after 5-8 weeks if necessary.
·	goosegrass	175 lbs./acre prior to weed germination in the spring. Apply a repeat application of 175-233 lbs./acre	An additional application of 175 lbs./acre may be applied for extended goosegrass control 8 weeks after the second

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	after 5 – 8 weeks.	application.
cudweed	175-233 lbs./acre	Apply in late
Poa annua		summer or early
chickweed		fall prior to
lawn burweed		weed germination
henbit		
corn speedwell		

- ¹ DO NOT exceed a maximum rate of 233 pounds <u>per acre per application</u> for use on residential turfgrass.
- ² Residential is defined as turf in any residential situation as well as schools, parks and playgrounds.

³ DO NOT exceed a maximum rate of 233 pounds <u>per acre per application</u> for use on sod farms.

⁴ Not for use on bentgrass or *Poa annua* greens or tees.

TURFGRASS PRECAUTIONS

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

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

Do not use on bentgrass or Poa annua greens and tees or injury may occur.

Delay reseeding or winter overseeding of treated turfgrass for at least three (3) months following the last PENDULUM 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 0.86% PLUS FERTILIZER 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, MCPA, MSMA, or similar product is recommended to control established weeds.

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LANDSCAPE AND GROUNDS MAINTENANCE

PENDULUM 0.86% 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 limited to established trees or ornamentals in the landscape or in mulch beds; or, other commercially maintained landscape areas such as borders, around statuary or monuments in parks or in parking areas. If emerged weeds are present at time of application either shallow cultivate to destroy existing weeds or, where practical, remove by hand, or apply a postemergence product labeled for such use prior to an application of PENDULUM 0.86% PLUS FERTILIZER. PENDULUM 0.86% PLUS FERTILIZER may be used before or after applications of herbicides registered for postemergence use (i.e. Vantage®, Roundup PRO®⁵ or Finale®⁶) for the control of established weeds. Do not apply sprays containing Roundup or Finale over the top of desirable plants, and follow the label restrictions. A PENDULUM 0.86% PLUS FERTILIZER treatment may be followed by any registered herbicide to control weeds not listed on the PENDULUM 0.86% PLUS FERTILIZER label.

ORNAMENTAL BULBS

PENDULUM 0.86% 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 0.86% PLUS FERTILIZER prior to, during or after bulb emergence. If weeds have already germinated use a labeled postemergence herbicide to control emerged weeds.

WILDFLOWERS

PENDULUM 0.86% PLUS FERTILIZER herbicide may be applied for control of susceptible annual weeds in plantings of wildflowers listed on the label (Black-eyed Susan, California Poppy, Coreopsis, Oxeye Daisy, etc.). PENDULUM 0.86% PLUS FERTILIZER may be applied to established perennial wildflowers before emergence of weeds or wildflowers. For wildflowers being established from seed, apply PENDULUM 0.86% PLUS FERTILIZER 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 0.86% PLUS FERTILIZER may vary greatly. Careful testing on desirable species is recommended to determine if area-wide applications can be made.

ORNAMENTAL PRECAUTIONS

Apply PENDULUM 0.86% 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 0.86% 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 any PENDULUM product or injury may occur.

RECOMMENDED ORNAMENTAL SPECIES

PENDULUM 0.86% PLUS FERTILIZER is safe around and over the top of the established plants listed below.

TREES

<u>Common Name</u>

Alder, European Black Apple Arborvitae, American Arbutus Ash, Red Ash, White Aspen, Bigtooth Aspen, Quaking Basswood Birch, European Weeping Birch, River Buckeye, Red Cedar, White Chamaecyparis, Boulevard Cherry, Black Cherry, Choke Cherry, Kwanzan Cherry, Nanking Cottonwood Crabapple Crepe Myrtle Cryptomeria, Japanese Cedar Cypress, Bald Cypress, Leyland Dogwood, Flowering Dogwood, Korean Dogwood, Silky Dogwood, Shrub Elm Fir. Balsam

<u>Scientific Name</u>

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Alnus glutinosa Malus spp. Thuja occidentalis Arbutus spp. Fraxinus pennsylvanica Fraxinus americana Populus grandidentata Populus tremuloides Tilia spp. Betula pendula Betula nigra Aesculus pavia Thuja occidentalis Chamaecyparis pisifera Prunus serotina Prunus virginiana Prunus serrulata Prunus tomentosa Populus deltoides Malus spp. Lagerstroemia indica Cryptomeria japonica Taxodium distichum Cupressocyparis leylandii Cornus florida Cornus kousa Cornus amomum Cornus spp. Ulmus japonica Abies balsamae

Fir. Douglas Fir, Fraser Fir, White Franklinia Ginkgo Gum, Black Gum, Sour Haw. Black Hawthorn Hemlock, Canada Hemlock, Eastern Holly, American Honeylocust Lilac, Common Lilac, Japanese Tree Linden Magnolia, Saucer Magnolia, Southern Magnolia, Star Maidenhair Tree Maple, Paper-bark Maple, Norway Maple, Japanese Maple, Red Maple, Sugar Nannyberry, Rusty Oak, Chinquapin Oak, Live Oak, Pin Oak. Red Oak, Swamp Chestnut Oak, Water Oak, White Oak, Willow Olive Palm, Date Palm, Fan Palm, Pindo Palm, Washington Peach Pear, Bradford Pecan Pine, Austrian Pine, Italian Stone Pine, Loblolly Pine, Monterey Pine, Red Pine, Scotch Pine, Virginia

Pseudotsuga menziesii Abies fraseri Abies concolor Franklinia spp. Ginkgo biloba Nyssa sylvatica Nyssa sylvatica Viburnum prunifolium Crataegus spp. Tsuga canadensis Tsuga canadensis Ilex opaca Gleditsia triacanthos Syringa vulgaris Syringa reticulata Tilia spp. Magnolia soulangiana Magnolia grandiflora Magnolia stellata Ginkgo biloba Acer griseum Acer platanoides Acer palmatum Acer rubrum Acer saccharum Viburnum rufidulum Quercus muehlenbergii Quercus virginiana Quercus palustris Quercus rubra Ouercus michauxii Quercus nigra Quercus alba Quercus phellos Olea europaea Phoenix spp. Washingtonia spp. Butia spp. Washingtonia spp. Prunus persica Pyrus calleryana 'Bradford' Carya illinoensis Pinus nigra Pinus pinea Pinus taeda Pinus radiata Pinus resinosa Pinus sylvestris Pinus virginiana

Pine, White Plum, Purple Leaf Poplar, Black Redcedar, Eastern Redcedar, Western Red Ironbark Redwood, Dawn Sequoia, Giant Serviceberry Sourwood Spruce, Colorado Blue Spruce, Dwarf Alberta Spruce, Norway Spruce, White Sweetgum Sycamore Trachycarpus Tulip tree Walnut, Black Willow, Weeping Yellowwood

SHRUBS

Common Name

Abelia, Glossy Aucuba, Gold Azalea Bamboo, Heavenly Barberry Barberry, Japanese Blue Indigo Bush Bottlebrush. Lemon Boxwood, Common Boxwood, Japanese Brittlebush Buttonbush Camellia Cape Jasmine Cassia, Feathery Cordyline Correa Cotoneaster Cotoneaster, Bearberry Cotoneaster, Rock Cypress, Italian Cypress, Leyland

Pinus strobus Prunus cerasifera Populus nigra Juniperus virginiana Thuja plicata Eucalyptus sideroxylon 'Rosea' Metasequoia glyptostroboides Sequoiadendron giganteum Amelanchier laevis Oxvdendrum arboreum Picea pungens Picea glauca 'albertiana' Picea abies Picea glauca Liquidambar styraciflua Platanus occidentalis Trachycarpus spp. Liriodendron tulipifera Juglans nigra Salix babylonica Cladrastis lutea

Scientific Name

Abelia grandiflora_ Aucuba japonica Rhododendron sp. Nandina domestica Berberis gladwynensis Berberis thunbergii Dalea gregii Callistemon citrinus Buxus sempervirens Buxus microphylla Encelia farinosa Cephalanthus occidentalis Camellia japonica Gardenia jasminoides Cassia artemisioides Cordyline spp. Correa spp. Cotoneaster apiculatus Cotoneaster dammeri Cotoneaster horizontalis Cupressus sempervirens Cupressocyparis leylandii

Deutzia gracilis Cornus sericea Elaeagnus ebbingei Escallonia fradesii Euonymus fortunei Euonymus japonica Euonymus alata Pyracantha coccinea Forsythia intermedia Osmanthus fragrans Zauschineria californica Gardenia jasminoides Raphiolepis indica Hibiscus svriacus Ilex cornuta Ilex crenata Ilex attenuata 'Fosteri' Ilex attenuata Ilex vomitoria Diervilla lonicera Dodonaea viscosa Dodonaea viscosa Hydrangea macrophylla Juniperus sp. Juniperus chinensis v. pfitzer Juniperus conferta Juniperus horizontalis Prunus laurocerasus Kalmia latifolia Prunus laurocerasus Prunus schipkanensis Viburnum tinus Lavandula angustifolia Leucothoe fontanesiana Leucothoe axillaris Syringa laciniata Agapanthus africanus Mahonia aquifolium Pittosporum tobira Myrtus communis Myrica cerifera Nandina domestica Nerium oleander Mahonia aquifolium Osmanthus fragrans Chamaerops humilis

Chamaerops spp.

Photinia X Fraseri

Leptodactylon californicum

Deutzia, Slender Dogwood, Red Twig Elaeagnus Escallonia Euonymus Euonymus, Golden Euonymus, Winged Firethorn Forsythia, Border Fragrant Olive Fuschia, California Gardenia Hawthorne, Indian Hibiscus Holly, Chinese Holly, Japanese Holly, Fosters Holly, Savannah Holly, Yaupon Honeysuckle, Bush Hopseed Bush Hopbush Hydrangea Juniper Juniper, Chinese Juniper. Shore Juniper, Trailing Laurel, Cherry Laurel, Mountain Laurel, Otto Luyken Laurel, Schipka Laurustinus Lavender, English Leucothoe Leucothoe, Coast Lilac, Cut-leaf Lily-of-the-Nile Mahonia Mock Orange Myrtle, Compact Myrtle, Wax Nandina Oleander **Oregon Grape** Osmanthus Palm, European Fan Palm, Mediterranean Fan Phlox, Prickly Photinia, Fraser

Pieris, Japanese Pine, Mugo Plum, Natal Privet, California Privet, Glossy Privet, Variegated Privet, Waxleaf Pyracantha Quince, Flowering Ranger, Texas Redroot Rhododendron Robira Rose Spice Plant Spiraea Spiraea, Anthony Waterer Spiraea, Japanese Sweet Bay **Trumpet Bush** Verbena, Lemon Viburnum Vitex Weigela Wild Lilac Wisteria Xvlosma Yellowbells Yew Yew, Japanese Yew, Southern Yucca, Adam's Needle Yucca, Weeping

GROUND COVERS

Common Name

Ajuga Baby Sun Rose Beach Strawberry Capeweed Cinquefoil, Spring Coyotebrush, Dwarf Daisy, Trailing African Dymondia Gazania Iceplant, Large Leaf Ivy, English

Pieris japonica Pinus mugo Carissa grandiflora Ligustrum ovalifolium Ligustrum lucidum Ligustrum sinensis Ligustrum japonicum Pyracantha coccinea Chaenomeles japonica Leucophyllum frutescens Ceanothus spp. Rhododendron spp. Pittosporum tobira Rosa spp. Illicium parviflorum Spiraea vanhouttei *Spiraea* X bumalda Spiraea japonica Laurus nobilis Tecoma stans Aloysia triphylla Viburnum suspensum Vitex spp. Weigela florida Ceanothus spp. Wisteria spp. Xylosma congestum Tecoma stans Taxus media Taxus cuspidata Podocarpus macrophyllus Yucca filamentosa Yucca pendula

Scientific Name

Ajuga reptans Aptenia cordifolia Fragaria chiloensis Arctotheca calendula Potentilla verna Baccharis pitularis Osteospermum fruticosum Dymondia margaretae Gazania splendens Carpobrotus edulis Hedera helix

Ivy, Geranium Jasmine, Asiatic Jasmine. Primrose Jessamine, Carolina Manzanita, Bearberry Miscanthus Mondograss Morninglory Myoporum Pachysandra Potentilla Periwinkle, Common Red Apple Rosemary Rose-Of-Sharon Sand Strawberry Sedum St. Johnswort, Creeping Stonecrop Verbena, Peruvian Vervain Vetch. Crown Vinca or Greater Periwinkle Wintercreeper

PERENNIALS

Common Name

Acacia Asparagus Aster, New York Aster, Stokes Astilibe (False Spirea) **Babys Breath Beard-Tongue** Bellflower Bird of Paradise Black-eved Susan **Blanket** Flower **Bleeding Heart** Butterfly Weed California Poppy Calla Lily Canna, Common Garden Carex Cast Iron plant Chincherinchee

Pelargonium peltatum Trachelospermum asiaticum Jasminum mesnyi Gelsemium sempervirens Arctostaphylos uva-ursi Miscanthus spp. Ophiopogon japonica Convolvulus spp. Myoporum parviflolium Pachysandra terminalis Potentilla fruticosa Vinca minor Aptenia cordifolia Rosemarinus officinalis Hypericum calycinum Fragaria chiloensis Sedum spurium Hypericum calycinum Sedum spurium Verbena peruviana Verbena peruviana Vicia sativa Vinca maior Euonymous fortunei

Scientific Name

Acacia redolens Asparagus spp. Aster novi-belgii Stokesia laevis Astilibe spp. Gypsophila elegans Penstemon spp. Campanula spp. Caesalpinia pulcherrima Rudbeckia hirta Gaillardia x grandiflora Dicentra spectabilis Asclepias tuberosa Eschscholzia california Zantedeschia aethiopica Canna generalis 'Lucifer' Carex spp. Aspidistra elatior Ornithogalum thyrsoides

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Clover, Crimson Columbine Coreopsis Crinum Lily Crocus Daffodil Davlily False dragonhead **Fiary Duster** Fern, Asparagus Fern, Tree Fern, Boston Fern, Leatherleaf* Fortnight Lily Foxglove, Common Freesia Fushcia, Arizona Gayfeather Gaillardia Geum Gladiolus Heather, Dwarf Hosta Hyssop, Sunset Indian Blanket Lantana, Weeping Leopards Bane Lily Liriope, Big Blue Liriope, Creeping Liriope, Variegated Loosestrife, Garden Moonbeam Montbretia Nightshade Orchid, Peacock Oxeye Daisy Peony, Chinese Purple Coneflower Purple Loosestrife Rosemary Ruscus, Israeli Sage, Russian Sedge Shasta Daisy Sweet Flag Tickseed Texas Bluebonnet Tulip

Trifolium incarnatum Aquilegia 'McKana Giant' Coreopsis lanceolata Crinum spp. Crocus spp. Narcissus spp. Hemerocallis spp. Physostegia virginiana Calliandra eriophylla Asparagus officinalis Asparagus virgatus Nephrolepis exaltata Rumohra adiantiformis Moraea spp. Digitalis purpurea Freesia x hybrida Zauschneria Californica Liatris spp. Gaillardia pulchella Geum spp. Gladiolus spp. Calluna vulgaris Hosta spp. Agastache rupestris Gaillardia pulchella Lantana montevidensis Doronicum cordatum Lillium spp. Liriope muscari Liriope spicata Liriope muscari Lysimachia punctata Coreopsis verticillata Crocosmia crocosmiiflora Solanum spp. Acidanthera bicolor Chrysanthemum leucanthemum Paeonia lactiflora Echinacea purpurea Lythrum virgatum Rosmarinus officinalis Ruscus hypophyllum Perovskia atriplicifolia Carex spp. Chrysanthemum x superbum Acorus calamus Coreopsis lanceolata Lupinus texenis Tulipa spp.

Twinspur Wonder Flower Yarrow Zephyr Lily Diasciascia barbaerae Ornithogalum thyrsoides Achillea millefolium Zephyranthes spp.

* Applications of PENDULUM 0.86% PLUS FERTILIZER to immature ferns (during periods of new growth of fronds) may result in some injury.

ORNAMENTAL GRASSES

Common Name

Beach Grass Fescue, Blue Fescue, Sheep Fountain Grass Pampas Grass Reed Canary Grass Reed, Giant Ribbon Grass Tufted Hair Grass

BEDDING PLANTS*

<u>Common Name</u>

Ageratum Alyssum Anemone, Poppy-flowered Artemesia Balloonflower Begonia Cabbage, Ornamental Caladium China Aster Crocosmia, Montebretia Dahlia Dianthus **Dusty Miller** Gazania, Treasure Flower Gazania, Trailing Geranium Gloxinia Impatiens Kale, Ornamental Marigold, African Moss Rose Mum, Garden

Scientific Name

Ammophila breviligulata Festuca ovina Festuca ovina Pennisetum setaceum Cortaderia selloana Phalaris arundinacea Arundo spp. Phalaris arundinacea Deschampsia caespitosa

Scientific Name

Ageratum houstonianum Alvssum saxatile Anemone coronaria Artemesia spp. Platycodon grandiflorum Begonia spp. Brassica olereacea Caladium spp. Callistephus chinensis Crocosmia x crocosmiiflora Dahlia spp. Dianthus barbatus Senecio cineraria Gazania rigens Gazania rigens leucolaena Geranium sp. Gloxinia simningia Impatiens sp. Brassica napus Tagetes erecta Portulaca grandiflora Chrysanthemum spp.

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Pansy, Garden Periwinkle, Rose

Petunia Plumosa Cockscomb Portulaca Salvia Snapdragon Statice Sweet William Vinca or Periwinkle Zinnia Viola x Wittrockiana Catharanthus roseus or Vinca rosea Petunia spp. Celosia cristata Portulaca grandiflora Salvia splendens Antirrhinum majus Limonium spp. Dianthus barbatus Catharanthus roseus Zinnia sp.

*After planting bedding plants and before PENDULUM 0.86% PLUS FERTILIZER is applied, area to be treated should be watered sufficiently to pack soil around roots.

PENDULUM 0.86% 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 recommended rate. Treated plants should be evaluated 1-2 months following treatment for possible injury. THE USER ASSUMES RESPONSIBILITY FOR ANY CROP DAMAGE OR OTHER LIABILITY. Do not treat plants grown for food or feed. Do not use treated plants for food or feed.

- ¹ PENDULUM and Vantage are registered trademarks of BASF Corporation
- ^{2,6} Acclaim Extra and Finale are registered trademarks of Bayer Environmental Sciences
- ³ Trimec is a trademark of PBI Gordon Corporation
- ⁴ Three-Way is a trademark of Lesco Inc.
- ⁵ Roundup PRO is a registered trademark of Monsanto Company

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BASF Corporation P.O. Box 13258 Research Triangle Park, NC 27709



Specialty Products

PENDULUM® 0.86% PLUS FERTILIZER Preemergent Weed Control

0.86% pendimethalin + 25-5-10 SCU Fertilizer

FOR USE ON TURFGRASSES AND ESTABLISHED ORNAMENTALS IN THE LANDSCAPE

ACTIVE INGREDIENT:

pendimethalin, N-(1-ethylpropyl)-3,4-dimethy	1-2, 6-dinitrobenzenamine
INERT INGREDIENTS.	<u>99.14%</u>
TOTAL EPA Reg. No. 241- ปั๔๚	

GUARANTEED ANALYSIS

Total Nitrogen (N).	25.00%
2.1% Ammoniacal Nitrogen	
22.9% Urea Nitrogen*	*
Avaliable Posphoric cid (P ₂ O ₅)	5.00%
Soluble Potash (K ₂ O).	10.00%
Derived from: Urea, Diammonium Phosphate, Sulfur Coated Urea and Sulfate of	Potash.
*6.25% slowly Available Nitrogen from Sulfur Coated Urea.	

KEEP OUT OF REACH OF CHILDREN CAUTION PRECAUCION!

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

Have the product container or label with you when calling a poison control center or doctor, or for going for treatment.

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

See Inside Leaflet For Additional Precautionary Statements and Directions For Use.

ACCEPTED with COMMENTS in EPA Letter Dated

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 7.41-424 614 1 **2** 2000

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BASF Corporation 26 Davis Drive Research Triangle Park, NC 27709



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and and a second se	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.
If on skin or clothing	 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 in eyes	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lense, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for advice.
If 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.

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-HELP (4357).

Precautionary Statements

Hazards to Humans and Domestic Animals CAUTION

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

Personal Protective Equipment (PPE):

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

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves made of any waterproof material (such as nitrile, butyl, neoprene, and/or barrier laminate).
- Shoes plus socks
- Protective eyewear

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 0.86% PLUS FERTILIZER in greenhouses, shadehouses or other enclosed structures.

NOT FOR USE on for commercial seed production.

DO NOT APPLY this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

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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 any waterproof material (such as nitrile, butyl, neoprene, and/or barrier laminate).
- 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.

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Observe all cautions and limitations on this label and the labels of products used in combination with PENDULUM 0.86% PLUS FERTILIZER. The use of PENDULUM 0.86% PLUS FERTILIZER not consistent with this label can result in injury to crops, animals, or persons. Keep containers closed to avoid spills and contamination.

DISCLAIMER

The label instructions for use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the use or application of the product contrary to label instructions, all of which are beyond the control of BASF Corporation (BASF). All such risks shall be assumed by the user.

BASF warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risk referred to above.

Any damages arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or values or any other special or indirect damages.

BASF makes no other express or implied warranty, including other express or implied warranty of FITNESS or of MERCHANTABILITY.

GENERAL INFORMATION

PENDULUM 0.86% PLUS FERTILIZER is a combination preemergent herbicide and fertilizer formulated to provide control of most annual grasses and certain broadleaf weeds found in any turfgrass site (lawns, sod, turf areas). Examples of such sites include, but are not limited to: golf courses, lawns in residential, commercial establishments, or grounds around military or other institutions, parks, airports, roadsides, schools or cemeteries; athletic fields or recreational areas; prairiegrass areas; and sod farms. PENDULUM 0.86% PLUS FERTILIZER can be used around established ornamentals in the landscape and in established wildflower plantings. PENDULUM 0.86% PLUS FERTILIZER may be used for hardwood and conifer regeneration on conservation reserve program land or similar areas.

PENDULUM 0.86% PLUS FERTILIZER is labeled for use on the following turfgrass species: Kentucky bluegrass, perennial ryegrass, fine fescue, tall fescue, bentgrass, <u>Poa annua</u> (except putting greens and tees), bermudagrass, St. Augustinegrass, bahiagrass, centipedegrass, zoysiagrass and blends of these grasses.

PENDULUM 0.86% 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 recommended rate using a properly calibrated spreader. The efficacy of PENDULUM 0.86% PLUS FERTILIZER will be improved if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. This will remove the product from the turfgrass foliage and establish a preemergent herbicide barrier in the soil. If PENDULUM 0.86% 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 0.86% 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 Vantage®¹, Acclaim Extra®², or MSMA containing products, to control emerged weeds. Broadleaf weeds can be controlled using Trimec^{TM3} Three-Way^{TM4}, 2-4,D, and other similar products.

Applied according to label directions, and under normal growing conditions, PENDULUM 0.86% PLUS FERTILIZER. will not cause injury to desirable plants. Over-application can result in stand loss, plant injury, or soil residues. Uneven application can decrease weed control or cause plant injury.

Seedling diseases, cold weather, excessive moisture, high soil pH, high soil salt concentration, or drought can weaken seedlings and plants, and increase the possibility of plant damage from PENDULUM 0.86% 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 recommended.

Avoid application when winds may cause drift.

			lb	s. per acre	
Spreader	Ground Speed	Spreading Width	<u>152</u>	<u>227</u>	<u>303</u>
LESCO Rotary	3 mph	9 ft.	C 1/2 10"/32	D 1/2 12"/32	E 1/2 14"/32
Scotts R-7,R-7x	3 mph	12 ft.	F	Ι	K
Scotts R-8,R-8a	3 mph	11 ft.	J	L 1/2	Ν
¹ Lely	4.5 mph	30 ft.	4 1/4 III	5 1/2 III	6 1/2 II
2 _{Vicon}	4.5 mph	30 ft.	21	25	29

175 lbs. treats 1 acre delivering 1.5 lb. ai/A and 1.0 lb. N/1,000 ft.²

¹Models WTR, WRF, HR, and 1250 PTO-450 rpm ²Vicon - All models PTO-540 rpm

Important: Spreader settings are only approximate. Age, condition of spreader, and operator speed can cause wide variation in application rate. Spreader should be calibrated prior to each application by the operator.

WEED SPECIES CONTROLLED.

PENDULUM 0.86% PLUS FERTILIZER is recommended for preemergence control of the weed species listed. Applications can be made around and over the top of the ornamentals and to the sites listed on this label.

GRASSES CONTROLLED

<u>Common Name</u>	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 Sandbur, Field Signalgrass Sprangletop, Mexican Sprangletop, Red Witchgrass Woolly Cupgrass

BROADLEAF WEEDS CONTROLLED

Common Name

Burweed, Lawn Carpetweed Chickweed, Common Chickweed. Mouseear Clover, Hop Cudweed Eveningprimrose Fiddleneck Filaree Henbit Knotweed, prostrate Kochia Lambsquarters Pigweed Puncturevine Purslane Pusley, Florida Rocket, London Shepherdspurse Smartweed, Pennsylvania Speedwell, Corn Spurge, Annual Spurge, Prostrate Woodsorrel, Yellow Velvetleaf (Buttonweed)

Panicum texanum Cenchrus incertus Brachiaria platyphylla Leptochloa uninervia Leptochloa filiformis Panicum capillare Eriochloa villosa 56/69

Scientific Name

Soliva pterosperma Mollugo verticillata Stellaria media Cerastium vulgatum Trifolium procumbens Gnaphalium spp. Oenothera biennis Amsinckia intermedia Erodium spp. Lamium amplexicaule Polygonum aviculare Kochia scoparia Chenopodium album Amaranthus spp. Tribulus terrestris Portulaca oleracea Richardia scabra Sisvmbrium irio Capsella bursa-pastoris Polygonum pensylvanicum Veronica arvensis Euphorbia spp. Euphorbia numistrata Oxalis stricta Abutilon theophrasti

TURFGRASSES

APPLICATION RATES FOR TURF WEED CONTROL $^{\rm 1}$

Turfgrass Species	Weeds	Rates of PENDULUM 0.86% PLUS FERTILIZER	Comments
COOL SEASON GRASSES	<u></u>		
Bluegrass, Kentucky Fescue, fine Fescue, tall	crabgrass foxtail <i>Poa annua</i>	175-233 lbs./acre as the initial application prior	Apply a repeat application of 116-175 lbs./acre
Ryegrass, perennial	barnyardgrass fall panicum oxalis prostrate spurge purslane knotweed evening primrose hop clover	to weed germination in the spring.	after 5 - 8 weeks for extended control or where heavy weed infestations are expected.
	goosegrass	Residential ² Turf Uses Only: 116-175 lbs./acre in the spring prior to weed germination.	Apply a repeat application of 116 lbs./acre after 5 – 8 weeks if the lower rates was used initially or for extended goosegrass
		Golf Course and Commercial Turf Uses: 116-350 lbs./acre in the spring prior to weed germination.	control.
	cudweed <i>Poa annua</i> chickweed lawn burweed henbit corn speedwell	175-233 lbs./acre	Apply in late summer or early fall prior to weed germination.

Bentgrass or established <i>Poa annua</i> ⁴ (1/2 inch height or taller)	crabgrass foxtail <i>Poa annua</i> barnyardgrass fall panicum oxalis prostrate spurge purslane knotweed evening primrose hop clover	175 lbs./acre in the spring prior to weed germination.	Apply a repeat application of 116- 175 lbs./acre after 5 8 weeks where heavy weed infestations are expected.
	goosegrass	175 lbs./acre in the spring prior to weed germination. Apply a repeat application of 175 lbs./acre after5 6- 8 weeks.	
	cudweed Poa annua chickweed lawn burweed henbit corn speedwell	175-233 lbs./acre	Apply in late summer or early fall prior to weed germination.
WARM SEASON GRASSES			
Bahiagrass Bermudagrass Buffalograss Centipedegrass Fescue, tall St. Augustinegrass Zoysiagrass	Crabgrass foxtail, <i>Poa annua</i> Barnyardgrass fall panicum oxalis prostrate spurge purslane knotweed evening primrose hop clover	Residential ² Turf Uses Only: 175-233 lbs./acre in the spring prior to weed germination. Golf Course and Commerical Turf Uses: 175-350 lbs./acre in the spring prior to weed	Apply a repeat application of 116- 175 lb./acre after 5-8 weeks if necessary.
	goosegrass	germination. 175 lbs./acre prior to weed germination in the spring. Apply a repeat application of	An additional application of 175 lbs./acre may be applied for extended goosegrass control 8 weeks

	after 5 – 8 weeks.	application.
cudweed	175-233 lbs./acre	Apply in late
Poa annua		summer or early
chickweed	•	fall prior to
lawn burweed		weed germination.
henbit		U
corn speedwell		

¹ DO NOT exceed a maximum rate of 233 pounds <u>per acre per application</u> for use on residential turfgrass.

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

³ DO NOT exceed a maximum rate of 233 pounds <u>per acre per application</u> for use on sod farms.

⁴ Not for use on bentgrass or *Poa annua* greens or tees.

TURFGRASS PRECAUTIONS

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

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

Do not use on bentgrass or *Poa annua* greens and tees or injury may occur.

Delay reseeding or winter overseeding of treated turfgrass for at least three (3) months following the last PENDULUM 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 0.86% PLUS FERTILIZER 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, MCPA, MSMA, or similar product is recommended to control established weeds.

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LANDSCAPE AND GROUNDS MAINTENANCE

PENDULUM 0.86% 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 limited to established trees or ornamentals in the landscape or in mulch beds; or, other commercially maintained landscape areas such as borders, around statuary or monuments in parks or in parking areas. If emerged weeds are present at time of application either shallow cultivate to destroy existing weeds or, where practical, remove by hand, or apply a postemergence product labeled for such use prior to an application of PENDULUM 0.86% PLUS FERTILIZER. PENDULUM 0.86% PLUS FERTILIZER may be used before or after applications of herbicides registered for postemergence use (i.e. Vantage®, Roundup PRO®⁵ or Finale®⁶) for the control of established weeds. Do not apply sprays containing Roundup or Finale over the top of desirable plants, and follow the label restrictions. A PENDULUM 0.86% PLUS FERTILIZER treatment may be followed by any registered herbicide to control weeds not listed on the PENDULUM 0.86% PLUS FERTILIZER label.

ORNAMENTAL BULBS

PENDULUM 0.86% 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 0.86% PLUS FERTILIZER prior to, during or after bulb emergence. If weeds have already germinated use a labeled postemergence herbicide to control emerged weeds.

WILDFLOWERS

PENDULUM 0.86% PLUS FERTILIZER herbicide may be applied for control of susceptible annual weeds in plantings of wildflowers listed on the label (Black-eyed Susan, California Poppy, Coreopsis, Oxeye Daisy, etc.). PENDULUM 0.86% PLUS FERTILIZER may be applied to established perennial wildflowers before emergence of weeds or wildflowers. For wildflowers being established from seed, apply PENDULUM 0.86% PLUS FERTILIZER 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 0.86% PLUS FERTILIZER may vary greatly. Careful testing on desirable species is recommended to determine if area-wide applications can be made.

ORNAMENTAL PRECAUTIONS

Apply PENDULUM 0.86% 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 0.86% 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 any PENDULUM product or injury may occur.

RECOMMENDED ORNAMENTAL SPECIES

PENDULUM 0.86% PLUS FERTILIZER is safe around and over the top of the established plants listed below.

TREES

Common Name

Alder, European Black Apple Arborvitae, American Arbutus Ash, Red Ash, White Aspen, Bigtooth Aspen, Quaking Basswood Birch, European Weeping Birch. River Buckeye, Red Cedar, White Chamaecyparis, Boulevard Cherry, Black Cherry, Choke Cherry, Kwanzan Cherry, Nanking Cottonwood Crabapple Crepe Myrtle Cryptomeria, Japanese Cedar Cypress, Bald Cypress, Leyland Dogwood, Flowering Dogwood, Korean Dogwood, Silky Dogwood, Shrub Elm Fir, Balsam

Scientific Name

Alnus glutinosa Malus spp. Thuja occidentalis Arbutus spp. Fraxinus pennsylvanica Fraxinus americana Populus grandidentata Populus tremuloides Tilia spp. Betula pendula Betula nigra Aesculus pavia Thuja occidentalis Chamaecyparis pisifera Prunus serotina Prunus virginiana Prunus serrulata Prunus tomentosa Populus deltoides Malus spp. Lagerstroemia indica Cryptomeria japonica Taxodium distichum Cupressocyparis leylandii Cornus florida Cornus kousa Cornus amomum Cornus spp. Ulmus japonica Abies balsamae

Fir, Douglas Fir. Fraser Fir, White Franklinia Ginkgo Gum. Black Gum, Sour Haw, Black Hawthorn Hemlock, Canada Hemlock, Eastern Holly, American Honeylocust Lilac, Common Lilac, Japanese Tree Linden Magnolia, Saucer Magnolia, Southern Magnolia, Star Maidenhair Tree Maple, Paper-bark Maple, Norway Maple, Japanese Maple, Red Maple, Sugar Nannyberry, Rusty Oak, Chinquapin Oak, Live Oak, Pin Oak, Red Oak, Swamp Chestnut Oak, Water Oak, White Oak. Willow Olive Palm, Date Palm, Fan Palm, Pindo Palm, Washington Peach Pear, Bradford Pecan Pine, Austrian Pine, Italian Stone Pine, Loblolly Pine, Monterey Pine, Red Pine, Scotch Pine, Virginia

Pseudotsuga menziesii Abies fraseri Abies concolor Franklinia spp. Ginkgo biloba Nyssa sylvatica Nyssa sylvatica Viburnum prunifolium Crataegus spp. Tsuga canadensis Tsuga canadensis Ilex opaca Gleditsia triacanthos Syringa vulgaris Syringa reticulata Tilia spp. Magnolia soulangiana Magnolia grandiflora Magnolia stellata Ginkgo biloba Acer griseum Acer platanoides Acer palmatum Acer rubrum Acer saccharum Viburnum rufidulum Quercus muehlenbergii Quercus virginiana Quercus palustris Quercus rubra Ouercus michauxii Quercus nigra Quercus alba Quercus phellos Olea europaea Phoenix spp. Washingtonia spp. Butia spp. Washingtonia spp. Prunus persica Pyrus calleryana 'Bradford' Carya illinoensis Pinus nigra Pinus pinea Pinus taeda Pinus radiata Pinus resinosa Pinus sylvestris Pinus virginiana

Pine, White Plum, Purple Leaf Poplar, Black Redcedar, Eastern Redcedar, Western **Red Ironbark** Redwood, Dawn Sequoia, Giant Serviceberry Sourwood Spruce, Colorado Blue Spruce, Dwarf Alberta Spruce, Norway Spruce, White Sweetgum Sycamore Trachycarpus Tulip tree Walnut, Black Willow, Weeping Yellowwood

SHRUBS

Common Name

Abelia, Glossy Aucuba, Gold Azalea Bamboo, Heavenly Barberry Barberry, Japanese **Blue Indigo Bush** Bottlebrush, Lemon Boxwood, Common Boxwood, Japanese Brittlebush Buttonbush Camellia Cape Jasmine Cassia, Feathery Cordyline Correa Cotoneaster Cotoneaster, Bearberry Cotoneaster, Rock Cypress, Italian Cypress, Leyland

Pinus strobus Prunus cerasifera Populus nigra Juniperus virginiana Thuja plicata Eucalyptus sideroxylon 'Rosea' Metasequoia glyptostroboides Sequoiadendron giganteum Amelanchier laevis Oxvdendrum arboreum Picea pungens Picea glauca 'albertiana' Picea abies Picea glauca Liquidambar styraciflua Platanus occidentalis Trachycarpus spp. Liriodendron tulipifera Juglans nigra Salix babylonica Cladrastis lutea

Scientific Name

Abelia grandiflora_ Aucuba japonica Rhododendron sp. Nandina domestica Berberis gladwynensis Berberis thunbergii Dalea gregii Callistemon citrinus Buxus sempervirens Buxus microphylla Encelia farinosa Cephalanthus occidentalis Camellia japonica Gardenia iasminoides Cassia artemisioides Cordyline spp. Correa spp. Cotoneaster apiculatus Cotoneaster dammeri Cotoneaster horizontalis Cupressus sempervirens Cupressocyparis leylandii

Deutzia, Slender Dogwood, Red Twig Elaeagnus Escallonia Euonymus Euonymus, Golden Euonymus, Winged Firethorn Forsythia, Border **Fragrant Olive** Fuschia, California Gardenia Hawthorne, Indian Hibiscus Holly, Chinese Holly, Japanese Holly, Fosters Holly, Savannah Holly, Yaupon Honeysuckle, Bush Hopseed Bush Hopbush Hydrangea Juniper Juniper, Chinese Juniper, Shore Juniper, Trailing Laurel, Cherry Laurel, Mountain Laurel, Otto Luyken Laurel, Schipka Laurustinus Lavender, English Leucothoe Leucothoe, Coast Lilac, Cut-leaf Lilv-of-the-Nile Mahonia Mock Orange Myrtle, Compact Myrtle, Wax Nandina Oleander **Oregon Grape** Osmanthus Palm, European Fan Palm, Mediterranean Fan Phlox, Prickly Photinia, Fraser

Deutzia gracilis Cornus sericea Elaeagnus ebbingei Escallonia fradesii Euonymus fortunei Euonymus japonica Euonymus alata Pyracantha coccinea Forsythia intermedia Osmanthus fragrans Zauschineria californica Gardenia jasminoides Raphiolepis indica Hibiscus svriacus Ilex cornuta Ilex crenata Ilex attenuata 'Fosteri' Ilex attenuata Ilex vomitoria Diervilla lonicera Dodonaea viscosa Dodonaea viscosa Hydrangea macrophylla Juniperus sp. Juniperus chinensis v. pfitzer Juniperus conferta Juniperus horizontalis Prunus laurocerasus Kalmia latifolia Prunus laurocerasus Prunus schipkanensis Viburnum tinus Lavandula angustifolia Leucothoe fontanesiana Leucothoe axillaris Syringa laciniata Agapanthus africanus Mahonia aquifolium Pittosporum tobira Myrtus communis Myrica cerifera Nandina domestica Nerium oleander Mahonia aquifolium Osmanthus fragrans Chamaerops humilis Chamaerops spp. Leptodactylon californicum Photinia X Fraseri

Pieris, Japanese Pine, Mugo Plum, Natal Privet, California Privet, Glossy Privet, Variegated Privet, Waxleaf **Pvracantha Quince**, Flowering Ranger, Texas Redroot Rhododendron Robira Rose Spice Plant Spiraea Spiraea, Anthony Waterer Spiraea, Japanese Sweet Bay Trumpet Bush Verbena, Lemon Vibumum Vitex Weigela Wild Lilac Wisteria Xylosma Yellowbells Yew Yew, Japanese Yew. Southern Yucca, Adam's Needle Yucca, Weeping

GROUND COVERS

Common Name

Ajuga Baby Sun Rose Beach Strawberry Capeweed Cinquefoil, Spring Coyotebrush, Dwarf Daisy, Trailing African Dymondia Gazania Iceplant, Large Leaf Ivy, English

Pieris japonica Pinus mugo Carissa grandiflora Ligustrum ovalifolium Ligustrum lucidum Ligustrum sinensis Ligustrum japonicum Pyracantha coccinea Chaenomeles japonica Leucophyllum frutescens Ceanothus spp. Rhododendron spp. Pittosporum tobira Rosa spp. Illicium parviflorum Spiraea vanhouttei *Spiraea* X bumalda Spiraea japonica Laurus nobilis Tecoma stans Aloysia triphylla Viburnum suspensum Vitex spp. Weigela florida Ceanothus spp. Wisteria spp. Xylosma congestum Tecoma stans Taxus media Taxus cuspidata Podocarpus macrophyllus Yucca filamentosa Yucca pendula

Scientific Name

Ajuga reptans Aptenia cordifolia Fragaria chiloensis Arctotheca calendula Potentilla verna Baccharis pitularis Osteospermum fruticosum Dymondia margaretae Gazania splendens Carpobrotus edulis Hedera helix

Ivy, Geranium Jasmine, Asiatic Jasmine, Primrose Jessamine, Carolina Manzanita, Bearberry Miscanthus Mondograss Morninglory Myoporum Pachysandra Potentilla Periwinkle, Common Red Apple Rosemary. Rose-Of-Sharon Sand Strawberry Sedum St. Johnswort, Creeping Stonecrop Verbena, Peruvian Vervain Vetch, Crown Vinca or Greater Periwinkle Wintercreeper

PERENNIALS

Common Name

Acacia Asparagus Aster, New York Aster, Stokes Astilibe (False Spirea) Babys Breath Beard-Tongue Bellflower Bird of Paradise Black-eved Susan **Blanket Flower Bleeding Heart** Butterfly Weed California Poppy Calla Lily Canna, Common Garden Carex Cast Iron plant Chincherinchee

Pelargonium peltatum Trachelospermum asiaticum Jasminum mesnyi Gelsemium sempervirens Arctostaphylos uva-ursi Miscanthus spp. Ophiopogon japonica Convolvulus spp. Myoporum parviflolium Pachysandra terminalis Potentilla fruticosa Vinca minor Aptenia cordifolia Rosemarinus officinalis Hypericum calycinum Fragaria chiloensis Sedum spurium Hypericum calycinum Sedum spurium Verbena peruviana Verbena peruviana Vicia sativa Vinca maior Euonymous fortunei

Scientific Name

Acacia redolens Asparagus spp. Aster novi-belgii Stokesia laevis Astilibe spp. Gypsophila elegans Penstemon spp. Campanula spp. Caesalpinia pulcherrima Rudbeckia hirta Gaillardia x grandiflora Dicentra spectabilis Asclepias tuberosa Eschscholzia california Zantedeschia aethiopica Canna generalis 'Lucifer' Carex spp. Aspidistra elatior **Ornithogalum** thyrsoides

Clover, Crimson Columbine Coreopsis Crinum Lily Crocus Daffodil Daylily False dragonhead **Fiary Duster** Fern, Asparagus Fern, Tree Fern, Boston Fern, Leatherleaf* Fortnight Lily Foxglove, Common Freesia Fushcia, Arizona Gayfeather Gaillardia Geum Gladiolus Heather, Dwarf Hosta Hyssop, Sunset Indian Blanket Lantana, Weeping Leopards Bane Lily Liriope, Big Blue Liriope, Creeping Liriope, Variegated Loosestrife, Garden Moonbeam Montbretia Nightshade Orchid, Peacock Oxeye Daisy Peony, Chinese Purple Coneflower Purple Loosestrife Rosemary Ruscus, Israeli Sage, Russian Sedge Shasta Daisy Sweet Flag Tickseed **Texas Bluebonnet** Tulip

Trifolium incarnatum Aquilegia 'McKana Giant' Coreopsis lanceolata Crinum spp. Crocus spp. Narcissus spp. Hemerocallis spp. Physostegia virginiana Calliandra eriophylla Asparagus officinalis Asparagus virgatus Nephrolepis exaltata Rumohra adiantiformis Moraea spp. Digitalis purpurea Freesia x hybrida Zauschneria Californica Liatris spp. Gaillardia pulchella Geum spp. Gladiolus spp. Calluna vulgaris Hosta spp. Agastache rupestris Gaillardia pulchella Lantana montevidensis Doronicum cordatum Lillium spp. Liriope muscari *Liriope spicata* Liriope muscari Lysimachia punctata Coreopsis verticillata Crocosmia crocosmiiflora Solanum spp. Acidanthera bicolor Chrysanthemum leucanthemum Paeonia lactiflora Echinacea purpurea Lythrum virgatum Rosmarinus officinalis Ruscus hypophyllum Perovskia atriplicifolia Carex spp. Chrysanthemum x superbum Acorus calamus Coreopsis lanceolata Lupinus texenis Tulipa spp.

Twinspur Wonder Flower Yarrow Zephyr Lily Diasciascia barbaerae Ornithogalum thyrsoides Achillea millefolium Zephyranthes spp. 68/69

* Applications of PENDULUM 0.86% PLUS FERTILIZER to immature ferms (during periods of new growth of fronds) may result in some injury.

ORNAMENTAL GRASSES

<u>Common Name</u>

Beach Grass Fescue, Blue Fescue, Sheep Fountain Grass Pampas Grass Reed Canary Grass Reed, Giant Ribbon Grass Tufted Hair Grass

BEDDING PLANTS*

Common Name

Ageratum Alyssum Anemone, Poppy-flowered Artemesia Balloonflower Begonia Cabbage, Ornamental Caladium China Aster Crocosmia, Montebretia Dahlia Dianthus Dusty Miller Gazania, Treasure Flower Gazania, Trailing Geranium Gloxinia Impatiens Kale, Ornamental Marigold, African Moss Rose Mum, Garden

Scientific Name

Ammophila breviligulata Festuca ovina Festuca ovina Pennisetum setaceum Cortaderia selloana Phalaris arundinacea Arundo spp. Phalaris arundinacea Deschampsia caespitosa

Scientific Name

Ageratum houstonianum Alyssum saxatile Anemone coronaria Artemesia spp. Platycodon grandiflorum Begonia spp. Brassica olereacea Caladium spp. Callistephus chinensis Crocosmia x crocosmiiflora Dahlia spp. Dianthus barbatus Senecio cineraria Gazania rigens Gazania rigens leucolaena Geranium sp. Gloxinia simningia Impatiens sp. Brassica napus Tagetes erecta Portulaca grandiflora Chrysanthemum spp.

Pansy, Garden Periwinkle, Rose

Petunia Plumosa Cockscomb Portulaca Salvia Snapdragon Statice Sweet William Vinca or Periwinkle Zinnia Viola x Wittrockiana Catharanthus roseus or Vinca rosea Petunia spp. Celosia cristata Portulaca grandiflora Salvia splendens Antirrhinum majus Limonium spp. Dianthus barbatus Catharanthus roseus Zinnia sp.

*After planting bedding plants and before PENDULUM 0.86% PLUS FERTILIZER is applied, area to be treated should be watered sufficiently to pack soil around roots.

PENDULUM 0.86% 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 recommended rate. Treated plants should be evaluated 1-2 months following treatment for possible injury. THE USER ASSUMES RESPONSIBILITY FOR ANY CROP DAMAGE OR OTHER LIABILITY. Do not treat plants grown for food or feed. Do not use treated plants for food or feed.

- ¹ PENDULUM and Vantage are registered trademarks of BASF Corporation
- ^{2,6} Acclaim Extra and Finale are registered trademarks of Bayer Environmental Sciences
- ³ Trimec is a trademark of PBI Gordon Corporation
- ⁴ Three-Way is a trademark of Lesco Inc.
- ⁵ Roundup PRO is a registered trademark of Monsanto Company

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BASF Corporation P.O. Box 13258 Research Triangle Park, NC 27709



Specialty Products