

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

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES 7ค

Jeffery H. Birk, Ph.D. BASF 26 Davis Drive Research Triangle Park, NC 27709

JUN 13 2008

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

Dear Dr.Birk:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated April 22, 2008 for:

EPA Registration 241-341

Pendulum 3.3 EC Herbicide

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and finds that the label change(s) requested falls within the scope of PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our records.

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

If you have any questions, please contact me directly at 703-305-6249 or Joyce Edwards of my staff at 703-308-85479.

Sincerely,

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

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ELA	almanter		
Electronic Labe	ing Record		
LABEL INFORMATION			
Record Id#:	ELL002432		
Attachment Name:	000241-00341.20080422.NVA 2008-04-123-0122.pdf	Product Status:	Active
Registration #:	000241-00341		
Product:	PENDULUM 3.3 EC HERBICIDE		
PC Code:	108501		
RM Team:	RM 25	Submission Date:	04/22/2008
Version:	Initial	Receipt Date:	
CD Enclosed?:	Yes		
Comments:	NVA 2008-04-123-0122		
Application Correspondence:			. ,
	Attachment: 000241-00341.20080422.NVA 2008-04-123-	0122.pdf	100 - 200 - 20 - 20 - 20 - 20 - 20 - 20
SUBMISSION INFORMA	TION		(21 2)
Statu	s: Pending		
Submiss on B(si 828429 C:		
Actic Cod	n 332 a:		
OPPIN Receipt Date	e: 04/23/2008		
Action Comment	S: Notif Re: PR Notice 2007-4 and 98-10 for upon language for Pendulum 3.3 EC Herbicide	late of container disp	osal
Reviewer Comments	3:		
User Reviews Response Letter			

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The Chemical Company

April 22, 2008

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

RE: Notification: Container Disposal Language Pendulum[®] 3.3 EC herbicide EPA Reg. No. 241-341

Dear Mr. Tompkins:

BASF is hereby submitting a notification updating the container disposal language for Pendulum 3.3 EC herbicide (EPA Reg. No. 241-341) to comply with PRN 2007-04.

Enclosed please find:

- Application form 8570-1
- CD containing electronic copy of the label
- Certification with Respect to Label Integrity
- Pendulum 3.3 EC herbicide label.
- Current Pendulum 3.3 EC herbicide label

No PRIA fee is required for this notification.

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

Regards,

HI BY

Jeffrey H. Birk, Ph.D. Regulatory Manager Phone 919-547-2622 Fax: 919-547-2850 Email: jeffrey.birk@basf.com

Registered Trademark of BASF

	Environmenta	United States		<u>Form</u>		Registr Amend Other	ation	30. Approvel expires 2-28-9 OPP Identifier Number
		Applicati	on for Pesti	cide - Se	ection	1		
1. Company/Product Numbe 241-341	r .	<u>.</u>		A Product N les Tompk	-		3. Pi	None Restricted
4. Company/Product (Name) Pendulum 3.3 EC herbicide		PM# 25						
5. Name and Address of App BASF 26 Davis Drive Research Triangle Pa		ode)	(b)(i) to:		ct is sim	illar or iden	itical in co	FIFRA Section 3(c)(3) Emposition and labeling
Check if this	is a new address		Pro	duct Name)			
			Section	- 11				
Amendment - Explain	onse to Agency letter	dated	[_	Me Too	ited label etter dat " Applica xplain be	ation.		IFICATION N 1 3 2008
consistent with the guidance i other changes have been ma to willfully make any false sta 156.144, 156.146, and 156.1 of FIFRA. This notification is a	de to the labeling or the tement to EPA. I furthe 56, this product may be	e confidential s er understand t e in violation of	tatement of formul hat if the amended FIFRA and I may I	a of this prod l label is not o be subject to 9-547-2622 (j	uct. Lund consistent enforcem	derstand that I with the req ient action ar	t it is a viola uirements o nd penalties	ation of 18 U.S.C. Sec. 1001 of 40 CFR 156.10, 156.140, s under sections 12 and 14
1. Material This Product Will	Be Packaged In:							
Child-Resistant Packaging Yes V No * Certification must be submitted	Unit Packaging Yes Vo No If "Yes" Unit Packaging wgt.	No, per conteiner	Water Soluble Yes V No If "Yes" Package wgt	Packaging No. pe contai		2. Түрө of	Container Metal Plastic Glass Paper Other (S	
3. Location of Net Contents I	nformation ontainer	4. Size(s) Re	tail Container 2.5 gallons		5. Loc	ation of Lal		to container
6. Manner in Which Label is a	I	Lithog Paper Stenc	raph glued iled	Ot	ner			
			Section -	IV				
1. Contact Point <i> Complete i</i>	terns directly below f	or identificatio	n of individual to	be contacte	d, if nece	issary, to pr	ocess this	application.)
Name Jeffrey H. Birk			Title Regulatory Mar	nager			Telephone 919-547-2	e No. (Include Area Code) 2622
l certify that the statem acknowledge that any both under applicable is	knowlingly false or r		all attachments t				· (6. Date Application Received (Stamped)
2. Signature	43.V	2	3. Title Regulatory Mana	ger				
4. Typed Name Jeffrey H. Birk			5. Date Ap	oril 22, 20	80			

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Certification with Respect to Label Integrity

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

PROPOSED LABEL					
EPA Registration #	Date Submitted to EPA	Electronic file name			
241-341	4-22-08	000241-00341.20080422.NVA 2008-04-123-0122			

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

Signature

04/22/2008

Date

Jeffrey H. Birk Name (typed)

Regulatory Manager Title



FOR USE IN TURFGRASSES, ORNAMENTALS, LANDSCAPE OR GROUNDS MAINTENANCE, AND NONCROPLAND AREAS

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Active Ingredient		2. The second s					
pendimethalin, N-(1	l-ethylpropyl)-3	4-dimethyl-2,	6-dinitrobe	nzenamine			37.4%
Other Ingedients'	and the second secon		di Arabi			الله المراجعة المراج المراجعة المراجعة الم	62.6%
Total:							100.0%
 (1 gallon contains 3.3 lb	s of pendimethalin)						

EPA Reg. No. 241-341

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCION

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

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

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

Net Contents:

BASF Corporation 26 Davis Drive Research Triangle Park, NC 27709



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NOTIFICATION

	FIRST AID
If in eyes	 Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.
If swallowed	 Immediately call a poison control center or doctor. DO NOT induce vomiting unless told to do so by a poison control center or doctor. DO NOT GIVE ANY LIQUID TO THE PERSON. 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 inhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.
	HOT LINE NUMBER
In case of eme	rgency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).
	NOTE TO PHYSICIAN
т	his product may pose an aspiration pneumonia hazard. Contains petroleum distillates.

Precautionary Statements

HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

CAUTION

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

Personal Protective Equipment (PPE) NON-WPS USES:

Applicators and other handlers (except mixers/loaders) who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR Part 170) - in general, only agricultural-plant uses are covered by the WPS -must wear:

- · Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as nitrile rubber (≥ 14 mils)
- Shoes plus socks

Mixers and loaders must wear:

- Long-sleeved shirt and long pants, or coveralls
- Chemical-resistant gloves, such as barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, neoprene rubber \geq 14 mils, or viton \geq 14 mils
- Shoes plus socks
- Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them.

WPS USES:

Some materials that are chemically resistant to this product are listed below. If you want more options, follow the instructions for **Category F** on an EPA chemical-resistance category selection chart. Applicators and other handlers who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR part 170) - in general, agricultural-plant uses are covered - must wear: ″ις

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥ 14 mils
- Shoes plus socks

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

Engineering Controls

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240)(d)(4-6), the handler PPE-requirements may be reduced or modified as specified in the WPS.

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User Safety Recommendatio	ns "
 Users should: Wash hands before eating, drinking, che using tobacco, or using the toilet. Remove clothing immediately if pesticide Then wash thoroughly and put on clean Remove PPE immediately after handling Wash the outside of gloves before remove as possible, wash thoroughly and chang clothing. 	ອ gets inside. clothing: this product. ving, 4ຮູ soon

Environmental Hazards

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

ENDANGERED SPECIES PROTECTION

If endangered plant species occur in proximity to the appli-Scation site, the following mitigation measures are required:

If applied by ground, leave an untreated buffer zone of 200 feet. The product must be applied using a low boom (20 inches above the ground) and ASAE fine to medium/coarse nozzles.

To determine if your county has an endangered plant species, consult the website http://www.epa.gov/espp/usa-map.htm.

Endangered Species Bulletins may also be obtained from extension offices or state pesticide agencies. If the bulletin is not available for your specific area, check with the appropriate local state agency to determine if known populations of endangered plant species occur in the area to be treated.

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 herbicide application.

DO NOT apply this product through any type of irrigation system.

DO NOT apply by aerial methods.

DO NOT apply **Pendulum® 3.3 EC herbicide** in greenhouses, shadehouses or other enclosed structures. 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 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, such as barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥ 14 mils.
- 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 sprays have dried.

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

Storage and Disposal

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

PESTICIDE STORAGE: DO NOT STORE BELOW 40° F.

Extended storage at temperatures below 40° F canvesult in the formation of crystals on the bottorn of the container. If crystallization does occur, store the container on its side at room temperature (70° F) and rock obcasionally until crystals redissolve.

PESTICIDE DISPOSAL: Pesticide wastes are toxic/ Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL:

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity \leq 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Triple rinse containers too large to shake (capacity > 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

Observe all cautions and limitations on this label and the labels of products used in combination with **Pendulum® 3.3 EC herbicide**. The use of **Pendulum 3.3 EC** not consistent with this label can result in injury to crops, animals, or persons. Keep containers closed to avoid spills and contamination.

General Information

Pendulum 3.3 EC provides preemergence control of most annual grasses and certain broadleaf weeds as they germinate in any turfgrass site (lawns, sod, turf areas). Examples of such sites include but are not limited to: grounds or lawns around residential and commercial establishments, multifamily dwellings, military and other institutions, parks, airports, roadsides, schools, picnic grounds, athletic fields, houses of worship, cemeteries, golf courses, prairiegrass areas, and sod farms.

Pendulum 3.3 EC can also be used in and around field-, liner-, and container-grown ornamental nurseries; established landscape ornamentals and ornamental gardens; listed groundcovers; nonbearing fruit and nut trees; conifer and hardwood seedling nurseries; and for tree plantation site preparation and maintenance.

In addition, **Pendulum 3.3 EC** can be applied for general grounds maintenance around areas such as parking lots, driveways and roadsides, alleyways, bike and jogging paths, vacant lots, buildings, stone gardens and gravel yards, markers and fence lines, mulch beds and other similar areas. It may be used under asphalt or concrete treatments as part of a site preparation program.

Pendulum 3.3 EC is recommended for preemergence control of most annual grasses and certain broadleaf weeds as they germinate in any noncropland area such as railroad, utility, highway, and pipeline rights-of-way; highway guardrails, delineators, and sign posts; bridge abutments and approaches; utility substations; petroleum tank farms; pumping installations; storage areas; fence rows; windbreaks and shelterbelts; paved or gravel surfaces; and other similar areas where weed control is desired.

Pendulum 3.3 EC controls weeds as they germinate but will not control established weeds. Therefore, areas to be treated should be free of established weeds. For the control of established weeds, **Pendulum 3.3 EC** may be used in conjunction with herbicides registered for postemergence use. Consult the labels of those herbicides for use rates, timings, and precautions or restrictions.

Unusually cold, excessively wet, or hot and dry conditions that delay germination or extend germination over a long period of time can reduce weed control.

The efficacy of **Pendulum 3.3 EC** will improve if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. If **Pendulum 3.3 EC** is not activated by rainfall or irrigation within 30 days, erratic weed control may result.

Applied according to label directions and under normal growing conditions, **Pendulum 3.3 EC** or **Pendulum 3.3 EC** tank mix combinations will not cause crop injury. Overapplication can result in crop stand loss, crop injury, or soil residues. Uneven application can decrease weed control or cause crop 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 3.3 EC**.

Pendulum 3.3 EC may cause temporary discoloration of sprayed surfaces. Rinse immediately to avoid staining. Spray colorants or dyes can be added to alter the color of the spray solution to match the treated surfaces.

MIXING INSTRUCTIONS FOR PENDULUM 3.3 EC

Respective sections of this leaflet define recommended **Pendulum 3.3 EC** or **Pendulum 3.3 EC**-registered tank mix treatments.

Ground Driven Sprayer:

1. Fill tank one-half to three-guarters full with clean water.

- 2. Add **Pendulum® 3.3 EC herbicide** to the partially filled tank while agitating and then fill the remainder of the tank with water.
- MAINTAIN CONTINUOUS AGITATION WHILE ADDING PENDULUM 3.3 EC AND UNTIL SPRAY-ING IS COMPLETED. If the spray mixture is allowed to settle for any period of time, thorough agitation is essential before spraying is resumed. Continue agitation while spraying.
- 4. If **Pendulum 3.3 EC** is to be used in tank mixtures with other registered herbicides, follow directions on the labels of those products which recommend tank mixing.

Backpack Sprayer: Begin with a clean spray tank. Fill the spray tank one-half full with clean water and add the required amount of **Pendulum 3.3 EC** to the sprayer. Cap sprayer and agitate to ensure mixing. Uncap sprayer and finish filling tank to desired level. Cap sprayer and agitate once again. During application it is desirable to agitate the mixture on occasion to ensure mixing. If the spray mixture is allowed to settle for any period of time, thorough agita-tion is essential before spraying is resumed.

Liquid Fertilizers: Prior to mixing, small quantities should always be tested using a simple jar test. Add the required amount of **Pendulum 3.3 EC** to half-filled spray tank while agitating then add the fertilizer product. Complete filling spray tank to desired level.

Dry Bulk Fertilizers: Pendulum 3.3 EC may be impregnated on dry bulk fertilizers. When applied as directed, Pendulum 3.3 EC/dry bulk fertilizer mixtures provide weed control equal to that provided by the same rates of Pendulum 3.3 EC applied in water.

MANAGING OFF-TARGET MOVEMENT

The following information is provided as general guidance for managing off-target movement. Specific use recommendations for **Pendulum 3.3 EC** may differ depending on the application technique used and the vegetation management objective.

Spray Drift: Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

It is the responsibility of the applicator to avoid spray drift onto nontarget areas.

Spray drift from applying this product may result in damage to sensitive plants adjacent to the treatment area. Only apply this product when the potential for drift to these and other adjacent sensitive areas (e.g. residential areas, bodies of water, known habitat for threatened or endangered species, or nontarget crops) is minimal. **DO NOT** apply when the following conditions exist that increase the likelihood of spray drift from intended targets: high or gusty winds, high temperatures, low humidity, temperature inversions. To minimize spray drift, the applicator should be familiar with and take into account the following drift reduction advisory information. Additional information may be available from state enforcement agencies or the Cooperative Extension on the application of this product. 7,0

The best drift management strategy and most effective way to reduce drift potential are to apply large droplets that provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see **Wind**, **Temperature and Humidity** and **Temperature Inversions**).

Controlling Droplet Size:

- **Volume** Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- Pressure DO NOT exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- Number of Nozzles Use the minimum number of nozzles that provide uniform coverage.
- Nozzle Orientation Orienting nozzles so that the spray is released parallel to the airstream produces larger droplets than other orientations and is recommended practice. Significant deflection from the horizontal will reduce droplet size and increase drift potential.
- Nozzle Type Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid-stream nozzles oriented straight back produce the largest droplets and the lowest drift.
 DO NOT use nozzles producing a mist droplet spray.

Application Height: Making applications at the lowest possible height (aircraft, ground-driven spray boom) that is safe and practical reduces exposure of droplets to evaporation and wind.

Swath Adjustment: When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the application equipment (e.g. air-craft, ground) upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller droplets, etc.).

Wind: Drift potential is lowest between wind speeds of 3 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Application should be avoided below 3 mph due to variable wind direction and high inversion potential. **NOTE:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity: When making applications in low relative humidity, set up equipment to produce larger

droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions: Drift potential is high during a temperature inversion. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud, which can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Wind Erosion: Avoid treating powdery, dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

SPRAYING INSTRUCTIONS FOR PENDULUM® 3.3 EC HERBICIDE

Apply with properly calibrated ground equipment in sufficient water per acre to provide uniform spray distribution (at least 40 gallons of water per acre). Low-pressure (e.g. 20 to 40 psi) sprayers are recommended. Maintain continuous agitation during spraying with good mechanical or bypass agitation. Check sprayer routinely to determine proper calibration. Avoid overlaps that will increase rates above those recommended. Avoid application when winds may cause drift.

Avoid unintentional contact of spray solution with driveways, stone, wood or other porous surfaces. Rinse immediately to avoid staining.

The efficacy of **Pendulum 3.3 EC** will be improved if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. If **Pendulum 3.3 EC** is not activated by rainfall or irrigation within 30 days, erratic weed control may result.

To prevent establishment of weeds along the edges of lawns, it may be necessary to overlap the spray three to six inches onto sidewalks or driveways, etc., to ensure effective application rates in these especially vulnerable sites. Where temporary discoloration of pavement is to be avoided, rinse immediately to avoid staining.

TURFGRASS TANK MIXES

Pendulum 3.3 EC can be mixed with postemergence herbicides to control emerged weeds in turfgrasses. For annual grass control, applications can be made with **Acclaim® Extra** or MSMA to control emerged weeds. Broadleaf weeds can be controlled using **Trimec®**, **Three-Way™**, 2,4-D, and other similar products.

Before tank mixing, a simple jar test is recommended to insure compatibility of herbicides.

Refer to manufacturers' labels for specific use directions, precautions, and limitations before tank mixing with **Pendulum 3.3 EC** and follow those that are most restrictive.

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 greens or injury may occur.

Delay reseeding or winter overseeding of treated turfgrass for at least three (3) months following the last **Pendulum 3.3 EC** 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 3.3 EC** 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, Browntop panicum, Texas panicum, Field sandbur, Signalgrass, Mexican sprangletop, Red sprangletop, Witchgrass, Woolly cupgrass, Carpetweed, Fiddleneck, Filaree, Kochia, Lambsquarters, Pigweed, Puncturevine, Florida pusley, London rocket, Shepherdspurse, Pennsylvania smartweed, Annual spurge, and Velvetleaf.

Apply before weeds germinate. A postemergence herbicide, such as 2,4-D, MSMA, or similar products, may be tank mixed to control established weeds. Apply according to label instructions for the respective products and follow the most restrictive wording.

	<u>`</u>	APPLICATION RATES FOR WEED CONTRO	
Turfgrass Species	Weeds Controlled	Rates of Pendulum [®] 3.3 EC herbicide	Comments
COOL SEASON	GRASSES		
Bluegrass, Kentucky Fescue, fine Fescue, tall Ryegrass, perennial	Barnyardgrass Crabgrass Evening primrose Fall panicum Foxtail Hop clover Knotweed Oxalis <i>Poa annua</i> Prostrate spurge Purslane	3.6 to 4.8 pts/acre or 1.3 to 1.8 oz/1000 sq ft. Initial application prior to weed germination in spring.	Apply a repeat application of 2.5 to 3.6 pts/acre (1 to 1.3 oz/1000 sq ft) after to to 8 weeks for extended control or where heavy weed infestations are expected.
•	Goosegrass	 Residential² Turf Uses Only: 3.6 to 4.8 pts/acre or 1.3 to 1.8 oz/1000 sq ft. Initial application prior to weed germination in spring. Commercial or Other Non-Residential Turf Uses: 3.6 to 7.2 pts/acre or 1.3 to 2.6 oz/1000 sq ft. Initial application prior to weed germination in spring. 	Apply a repeat application of 3.6 pts/acre (1.3 oz/1000 sq ft) if the lower rate was used initially for extended goosegrass control.
	Chickweed Corn speedwell Cudweed Henbit Lawn burweed <i>Poa annua</i>	3.6 to 4.8 pts/acre or 1.3 to 1.8 cz/1000 sq ft.	Apply in late summer or early fall prior to weed germination.
WARM SEASON	GRASSES		
Bahiagrass Bermudagrass Buffalograss Centipedegrass Fescue, tall <i>Paspalum</i> , seashore St. Augustinegrass Zoysiagrass	Barnyardgrass Crabgrass Evening primrose Fall panicum Foxtail Hop clover Knotweed Oxalis <i>Poa annua</i> Prostrate spurge Purslane	 Residential² Turf Uses Only: 3.6 to 4.8 pts/acre or 1.3 to 1.8 oz/1000 sq ft. Initial application prior to weed germination in spring. Commercial or Other Non-Residential Turf Uses: 3.6 to 7.2 pts/acre or 1.3 to 2.6 oz/1000 sq ft. Initial application prior to weed germination in spring. 	Apply a repeat application of 2.5 to 3.6 pts/acre (1 to 1.3 oz/1000 sq ft) after 5 to 8 weeks if necessary.
	Goosegrass	3.6 pts/acre or 1.3 oz/1000 sq ft.	An additional application of 3.6 pts/acre (1.3 oz/1000 sq ft) may be made for
		Apply prior to weed germination in spring.	extended goosegrass control 8 weeks afte
		Make a second application 6 to 8 weeks later.	the second application.
	Chickweed Corn speedwell Cudweed Henbit Lawn burweed <i>Poa annua</i>	3.6 to 4.8 pts/acre or 1.3 to 1.8 oz/1000 sq ft.	Apply in late summer or early fall prior to weed germination.

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The efficacy of Pendulum 3.3 EC will be improved if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation.

If **Pendulum 3.3 EC** is not activated by rainfall or irrigation within 30 days, erratic weed control may result. To prevent establishment of weeds along the edges of lawns, it may be necessary to overlap the spray three to six inches onto sidewalks or driveways, etc., to ensure effective application rates in these especially vulnerable sites. Where temporary discoloration of pavement is to be avoided, rinse immediately to avoid staining.

ORNAMENTALS

RECOMMENDED SPECIES

Pendulum® 3.3 EC herbicide sprays are safe around and over the top of the established plants listed below. However, not all varieties or strains of the plants listed have been tested. Unintentional consequences, such as crop injury, may result because of certain environmental or growing conditions, manner of use or application. Therefore, before treating a large number of plants, spray a

few plants and observe for plant damage prior to full scale application.

DO NOT apply **Pendulum 3.3 EC** in greenhouses, shadehouses or other enclosed structures.

Refer to APPLICATION RATE TABLE for rates.

GROL	IND COVERS
Common Name	Scientific Name
Ajuga	Ajuga reptans
Capeweed	Arctotheca calendula
Cinquefoil, spring	Potentilla verna
Daisy, trailing African	Osteospermum fruticosum
Gazania	Gazania splendens
Iceplant, large leaf	Carpobrotus edulis
lvy, English	Hedera helix
Ivy, Geranium	Pelargonium peltatum
Jasmine, Asiatic	Trachelospermum asiaticum
Jasmine, primrose	Jasminum mesnyi
Mondograss	Ophiopogon japonica
Myoporum	Myoporum parviflolium
Pachysandra	Pachysandra terminalis
Potentilla	Potentilla fruticosa
Rose-Of-Sharon	Hypericum calycinum
Wintercreeper	Euonymous fortunei

PERENNIALS **Common Name Scientific Name** Bleeding heart Dicentra spectabilis Calla lily Zantedeschia aethiopica Canna, common garden Canna generalis 'Lucifer' Chincherinchee Ornithogalum thyrsoides Crinum lily Crinum spp. Fern, asparagus Asparagus officinalis Fern, leatherleaf Rumohra adiantiformis Freesia Freesia x hybrida Heather, dwarf Calluna vulgaris Hosta Hosta spp. Lily Lillium spp. Liriope, creeping Liriope spicata Liriope, variegated Liriope muscari Montbretia Crocosmia crocosmiiflora Orchid, peacock Acidanthera bicolor Peony, Chinese Paeonia lactiflora Wisteria Wisteria spp.

ORNAMENTAL GRASSES			
Common Name	Scientific Name		
Beach brass	Ammophila breviligulata		
Fescue, blue	Festuca ovina		
Fescue, sheep	Festuca ovina		
Fountain grass	Pennisetum setaceum		
Pampas grass	Cortaderia selloana		
Reed canary grass	Phalaris arundinacea		
Reed, giant	Arundo spp.		
Ribbon grass	Phalaris arundinacea		
Tufted hair grass	Deschampsia caespitosa		

Zephyranthes spp.

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Zephyr lily

Common Name	Scientific Name
Alder, European black	Alnus glutinosa
Apple	Malus spp.
Arborvitae, American	Thuja occidentalis
Arbutus	Arbutus spp.
Ash, red	Fraxinus pennsylvanica
Ash, white	Fraxinus americana
Aspen, bigtooth	Populus grandidentata
Aspen, quaking	Populus tremuloides
Basswood	Tilia spp.
Birch, European weeping	Bètula pendula
Birch, river.	Betula nigra
Buckeye, red	Aesculus pavia
Cedar, white	Thuja occidentalis
Chamaecyparis, boulevard	Chamaecyparis pisifera
Cherry, black	Prunus serotina
Cherry, choke	Prunus virginiana
Cherry, Kwanzan	Prunus serrulata
Cherry, Nanking	Prunus tomentosa
Cottonwood	Populus deltoides
Crabappie	Malus spp.
Crepe Myrtle	Lagerstroemia indica
Cryptomeria, Japanese cedar	Cryptomeria japonica
Cypress, bald	Taxodium distichum
Cypress, leyland	Cupressocyparis leylandii
Dogwood, flowering	Cornus florida
Dogwood, Korean	Cornus kousa
Dogwood, shrub	Comus spp.
Dogwood, silky	Comus amomum
Elm	Ulmus japonica
Fir, balsam	Abies balsamae
Fir, Douglas	Pseudotsuga menziesii
Fir, Fraser	Abies fraseri
Fir, white	Abies concolor
Franklinia	Franklinia spp.
Ginkgo	Ginkgo biloba
Gum, black	Nyssa sylvatica
Gum, sour	Nyssa sylvatica
Haw, black	Viburnum prunifolium
Hawthorn	Crataegus spp.
Hemlock, Canada	
Hemlock, Canada Hemlock, Eastern	Tsuga canadensis Tsuga canadensis
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Holly, American	llex opaca
	Gleditsia triacanthos
Lilac, common	Syringa vulgaris
Lilac, Japanese tree	Syringa reticulata
Linden	Tilia spp.
Magnolia, saucer	Magnolia soulangiana
Magnolia, Southern	Magnolia grandiflora
Magnolia, star	Magnolia stellata
Maidenhair tree	Ginkgo biloba

Common Name	Scientific Name
Maple, Japanese	Acer palmatum
Maple, Norway	Acer platanoides
Maple, red	Acer rubrum
Maple, sugar	Acer saccharum
Nannyberry, rusty	Viburnum rufidulum
Oak, Chinquapin	Quercus muehlenbergii
Oak, live	Quercus virginiana
Oak, pin	Quercus palustris
Oak, red	Quercus rubra
Oak, swamp chestnut	Quercus michauxii
Oak, water	Quercus nigra
Oak, white	Quercus alba
Dak, willow	Quercus phellos
Olive	Olea europaea
Palm, date	Phoenix spp.
Palm, fan	
	Washingtonia spp.
Palm, pindo	Butia spp.
Palm, Washington	Washingtonia spp.
	Prunus persica
Pear, Bradford	Pyrus calleryana 'Bradford'
Pecan	Carya illinoensis
Pine, Austrian	Pinus nigra
Pine, Italian stone	Pinus pinea
Pine, loblolly	Pinus taeda
Pine, Monterey	Pinus radiata
Pine, red	Pinus resinosa
Pine, scotch	Pinus sylvestris
Pine, slash	Pinus elliottii
Pine, Virginia	Pinus virginiana
Pine, white	Pinus strobus
Plum, purple leaf	Prunus cerasifera
^D oplar, black	Populus nigra
Redcedar, Eastern	Juniperus virginiana
Redcedar, Western	Thuja plicata
Red ironbark	Eucalyptus sideroxylon 'Rosea
Redwood, dawn	Metasequoia glyptostroboides
Sequoia, giant	Sequoiadendron giganteum
Serviceberry	Amelanchier laevis
Sourwood	Oxydendrum arboreum
Spruce, Colorado blue	Picea pungens
Spruce, dwarf Alberta	Picea glauca 'albertiana'
Spruce, Uwan Aberta Spruce, Norway	Picea abies
Spruce, white	Picea glauca
	Liquidambar styraciflua
	Platanus occidentalis
Trachycarpus	Trachycarpus spp.
Tulip Tree	Lindendron tuipitera
Walnut, black	Juglans nigra
Nillow, weeping	Salix babylonica

Common Name	Scientific Name
Abelia, glossy	Abelia grandiflora
Aucuba, gold	Aucuba japonica
Adeuba, gold Azalea	Rhododendron spp.
Bamboo, heavenly	Nandina domestica
Barberry	Berberis gladwynensis
Barberry, Japanese	Berberis thunbergii
Blue Indigo bush	Dalea gregii
Bottlebrush, lemon	Callistemon citrinus
Boxwood, common	Buxus sempervirens
Boxwood, Japanese	Buxus microphylla
	Camellia japonica
Cape Jasmine	Gardenia jasminoides
Cordyline	Cordyline spp.
Correa	Correa spp.
Cotoneaster	Cotoneaster apiculatus
Cotoneaster, bearberry	Cotoneaster dammeri
Cotoneaster, rock	Cotoneaster horizontalis
Cypress, Italian	Cupressus sempervirens
Cypress, leýland	Cupressocyparis leylandii
Deutzia, slender	Deutzia gracilis
Dogwood, red twig	Cornus sericea
Elaeagnus	Elaeagnus ebbingei
Escallonia	Escallonia fradesii
Euonymus	Euonymus fortunei
Euonymus, golden	Euonymus japonica
Euonymus, winged	Euonymus alata
Firethorn	Pyracantha coccinea
Forsythia, border	Forsythia intermedia
Fragrant olive	Osmanthus fragrans
Fuschia, California	Zauschineria californica
Gardenia	Gardenia jasminoides
Hawthorne, Indian	Raphiolepis indica
Hibiscus	Hibiscus syriacus
Holly, Chinese	llex cornuta
Holly, Fosters	Ilex attenuata 'Fosteri'
Holly, Japanese	llex crenata
Holly, Savannah	llex attenuata
Holly, Yaupon	llex vomitoria
Honeysuckle, bush	Diervilla Ionicera
Juniper	Juniperus spp.
Juniper, Chinese	Juniperus chinensis v. pfitzer
Juniper, shore	Juniperus conferta
Juniper, trailing	Juniperus horizontalis
Laurel, Cherry	Prunus laurocerasus
	Kalmia latifolia
Laurel, mountain	
Laurel, Otto Luyken	Prunus laurocerasus
Laurel, Schipka	Prunus schipkanensis
Laurustinus	Viburnum tinus
Lavender, English	Lavandula angustifolia
Leucothoe	Leucothoe fontanesiana

Common Name	Scientific Name	
Leucothoe, coast	Leucothoe axillaris	
Lilac, cut-leaf	Syringa laciniata	
_ily-of-the-Nile	Agapanthus africanus	
<i>M</i> ahonia	Mahonia aquifolium	
Nock orange	Pittosporum tobira	
lyrtle, compact	Myrtus communis	
Ayrtle, wax	Myrica cerifera	
Jandina	Nandina domestica	
Dleander	Nerium oleander	
)regon grape	Mahonia aquifolium	
)smanthus	Osmanthus fragrans	
alm, European fan	Chamaerops humilis	
alm, Mediterranean fan	Chamaerops spp.	
hlox, prickly	Leptodactylon californicum	
hotinia, Fraser	Photinia X Fraseri	
ieris, Japanese	Pieris japonica	
ine, Mugo	Pinus mugo	
lum, Natal	Carissa grandiflora	
rivet, California	Ligustrum ovalifolium	
rivet, glossy	Ligustrum lucidum	
rivet, variegated	Ligustrum sinensis	
ivet, waxleaf	Ligustrum japonicum	
yracantha	Pyracantha coccinea	
uince, flowering	Chaenomeles japonica	
anger, Texas	Leucophyllum frutescens	
edroot	Ceanothus spp.	
nododendron	Rhododendron spp.	
obira		
·	Pittosporum tobiri	
pice plant	Illicium parviflorum	
	Spiraea vanhouttei	
piraea, Anthony Waterer	Spiraea X burnalda	
biraea, Japanese	Spirea japonica	
weet bay	Laurus nobilis	
umpet bush	Tecoma stans	
erbena, lemon	Aloysia triphylla	
iburnum	Vibumum suspensum	
itex	Vitex spp.	
/eigela	Weigela florida	
Vild lilac	Ceanothus spp.	
ylosma	Xylosma congestum	
ellowbells	Tecoma stans	
ew*	Taxus media	
ew, Japanese*	Taxus cuspidata	
ew, Southern	Podocarpus macrophyllus	
ucca, Adam's	Yucca filamentosa	
ucca, weeping	Yucca pendula	

ORNAMENTA	L INSTRUCTIONS AND RESTRICTIONS
Site	Application Instructions and Restrictions
Newly transplanted field-grown nursery stock	 DO NOT make over-the-top applications at time of field transplanting. Use shielded sprayer until plantings have been established for one (1) year or more in the field. DO NOT APPLY until transplants have been watered and soil has been thoroughly packed and settled around transplants. Care must be taken to ensure there are no cracks in the soil where Pendulum[®] 3.3 EC herbicide could come into contact with the roots. DO NOT APPLY during bud swell, bud break or at time of first flush of new growth. Direct sprays away from graphed or budded tissue on transplants at all times.
Newly transplanted container-grown nursery stock	 DO NOT APPLY until transplants have been watered and soil has been thoroughly packed and settled around transplants. Care must be taken to ensure there are no cracks in the soil where Pendulum 3.3 EC could come into contact with the roots. For container-grown ornamentals, delay first application of the product to bare root liners for two (2) to four (4) weeks after transplanting. DO NOT APPLY during bud swell, bud break or at time of first flush of new growth. Direct sprays away from graphed or budded tissue on transplants at all times.
Established container, field-grown nursery stock	 DO NOT APPLY during bud swell, bud break or at time of first flush of new growth. Apply as a directed or over-the-top spray. If newly budded or graphed rootstock, make an application using a shielded sprayer. Care must be taken to ensure there are no cracks in the soil where Pendulum 3.3 EC could come into contact with the roots.
Landscape plantings	 DO NOT APPLY to newly transplanted ornamentals until plants have been watered and soil has been thoroughly packed and settled around roots. Apply as a directed or over-the-top spray. It is recommended to use the lowest labeled rate when making applications to annuals. Repeat applications can be made for extended landscape weed control.
Bare ground for container placement	 Apply to soil and water in (including mulch, gravel, wood chips, or other perme able base); replace containerized ornamentals onto pad.
Greenhouses, shadehouses or other enclosed structures.	DO NOT APPLY in greenhouses, shadehouses or other enclosed structures.

Pendulum® 3.3 EC herbicide may be used on plant species not listed on this label. The suitability for such uses should be determined by treating a small number of such plants at the recommended rate. Treated plants should be evaluated 1 to 2 months following treatment for possible injury. To the extent allowed by law, **THE USER ASSUMES RESPONSIBILITY FOR ANY CROP DAM-AGE OR OTHER LIABILITY.** <u>DO NOT treat plants</u> <u>grown for food or feed.</u> <u>DO NOT use treated plants</u> <u>for food or feed</u>.

It is recommended that treated plants be evaluated for 1 to 2 months prior to making application to a large number of plants. To the extent allowed by law, **THE USER ASSUMES RESPONSIBILITY FOR ANY CROP DAM-AGE OR OTHER LIABILITY.**

ORNAMENTAL TANK MIXES

Emerged weeds in ornamentals can be controlled using tank mixes containing **Roundup Pro**[®], **Finale™**, **Ornamec[®]**, **Gallery™**, **Princep[®]**, and other similar products. **DO NOT** apply sprays containing **Roundup Pro** or Finale over the top of ornamental plants. Before tank mixing, a simple jar test is recommended to insure compatibility of herbicides.

Refer to manufacturer's labels for specific use directions, precautions, and limitations before tank mixing with **Pendulum 3.3 EC**, and follow those that are most restrictive.

LANDSCAPE AND GROUND MAINTENANCE

Pendulum 3.3 EC can be incorporated into landscape and grounds maintenance programs to provide extended preemergence control of most annual grasses and certain broadleaf weeds. Areas to be treated, such as mulch beds, parking areas and roadsides, fencelines and borders, around statuary or monuments, and similar areas, should be free of emerged weeds before application. To remove emerged weeds, either cultivate or tank mix **Pendulum 3.3 EC** with a postemergence product labeled for such use.

Refer to **APPLICATION RATE TABLE** for rates. Avoid unintentional contact of spray solution on stone, wood, or other porous surfaces as staining may occur. Rinse immediately to avoid staining.

NONBEARING FRUIT AND NUT CROPS AND VINEYARDS

Pendulum 3.3 EC may be applied for preemergence control of most annual grasses and certain broadleaf weeds on the following nonbearing crops:

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Citrus	Olive	Pistachio
Fig	Peach	Plum .
Grape	Pear	Prune
Nectarine	Pecan	Walnut, English
	Citrus Fig Grape	Fig Peach Grape Pear

Refer to APPLICATION RATE TABLE for rates.

Apply the spray directly to the ground below the trees or vines. Care must be taken that soil or planting mixes have settled firmly following transplanting and that there are no cracks that would allow direct contact of **Pendulum 3.3 EC** and roots. Directed sprays where soil and media surfaces are uniformly covered will result in best weed control and plant tolerance. For newly transplanted and one-year-old grapevines, apply only when they are dormant. **DO NOT** apply if buds have started to swell. **Pendulum 3.3 EC** may be used where the roots of a fruit, vine, nut, or ornamental plant encroach into a treatable area.

NONCROPLAND AREAS INCLUDING TREE PLANTATIONS

Pendulum 3.3 EC is recommended for grounds maintenance in noncropland areas; preemergence control of the weed species listed in and around established tree plantations (including Christmas trees); pulpwood and fiber farms; in and around established ornamentals planted in noncropland areas, such as highway rights-of-way, and utility substations. **Pendulum 3.3 EC** may be used for hardwood and conifer regeneration on conservation reserve program land or similar areas.

Refer to APPLICATION RATE TABLE for rates.

Pendulum 3.3 EC may be applied at planting or to established trees. When making an application at planting, it is important that slit closure be achieved to prevent **Pendulum 3.3 EC** from directly contacting the tree roots, or being washed into the root zone via the open slit, or root stunting may occur.

For postemergence control of weeds, tank mix combinations of **Pendulum 3.3 EC** plus **Roundup Pro**, **Finale**, or other labeled herbicides are recommended. Refer to approved labeling for species recommendations. Recommended rates for the tank mix compounds should be determined from the product labels of both **Pendulum 3.3 EC** and partner herbicides prior to use. Precaution must be exercised to prevent combination sprays from direct contact with desirable foliage or injury may result. **Pendulum 3.3 EC** plus diuron or simazine combinations will broaden weed control spectrum; however, use of combinations may restrict **Pendulum 3.3 EC** usage in sensitive areas. Refer to manufacturers' labels for specific use directions, precautions, and limitations before use, and follow those that are most restrictive.

TOTAL VEGETATIVE CONTROL

Pendulum 3.3 EC may be tank mixed with **Arsenal®**, **Plateau®**, **Roundup Pro, Karmex®**, **Finale, Oust®**, diuron, or other products to provide bare ground or total vegetation control. **Pendulum 3.3 EC** can be used to provide greater plant selectivity in areas where such action may be desired. Such sites might have roots of landscape vegetation, ornamentals, or desirable trees encroaching into the treated zone. Refer to tank mix partner labels regarding effects on desirable plants. DO NOT tank mix with **Arsenal** in California. Applications may be made to existing weeds controlled by the partner herbicide. Recommended rates should be determined from the product labels prior to use. Follow the most restrictive label instructions.

For Kochia: Combinations of Pendulum[®] 3.3 EC herbicide with Arsenal[®] herbicide or diuron are recommended if control has been a problem for other herbicides.

APPLICATION RATES

For preemergence control of the weed species listed using broadcast spray equipment, apply **Pendulum 3.3 EC** at the following rates:

Length of Control	Quarts required to treat 1 acre	Ounces required to treat 1000 sq ft
Short Term (2 to 4 months)	2.4	1.8
Long Term (6 to 8 months)	- 4.8	3.6

Hand-held Spray Equipment: Use the table above to determine the amount of **Pendulum 3.3 EC** to be applied per 1000 square feet. The amount of water used for the application is not critical but should be sufficient for thorough coverage without runoff. Calibration of backpack or other hand-held equipment will vary with each operator. Determine the amount of water needed to treat 1000 square feet before mixing the spray solution. Follow mixing instructions discussed elsewhere on this label.

The efficacy of **Pendulum 3.3 EC** will improve if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. If **Pendulum 3.3 EC** is not activated by rainfall or irrigation within 30 days, erratic weed control may result.

Pendulum 3.3 EC will not control established weeds.

If weeds should develop prior to activation of herbicide, shallow cultivate to destroy existing weeds or, where practical, remove by hand. When cultivating for any reason, it should be shallow. **Pendulum 3.3 EC** may be used in conjunction with herbicides registered for postemergence use (i.e. **Roundup Pro®** or **Finale®**) for the control of established weeds. **DO NOT** apply sprays containing **Roundup Pro** or **Finale** over the top of desirable plants. A **Pendulum 3.3 EC** treatment may be followed by any registered herbicide to control weeds not listed on the **Pendulum 3.3 EC** label.

WEED SPECIES CONTROLLED

Pendulum 3.3 EC is recommended for preemergence control of the weed species listed. Applications can be made around and over the top of the ornamentals and to the sites listed on this label.

GRASSES CONTROLLED		
Common Name	Scientific Name	
Barnyardgrass	Echinochloa crus-galli	
Bluegrass, annual	Poa annua	
Crabgrass	Digitaria spp.	
Crowfootgrass	Dactyloctenium aegyptium	
Foxtail, giant	Setaria faberi	
Foxtail, green	Setaria viridis	
Foxtail, yellow	Şetaria glauca	
Goosegrass	Eleusine indica	
Itchgrass	Rottboellia exaltata	
Johnsongrass (from seed)	Sorghum halepense	
Junglerice	Echinochloa colona	
Lovegrass (from seed)	Eragrostis spp.	
Panicum, browntop	Panicum fasciculatum	
Panicum, fall	Panicum dichotomiflorum	
Panicum, Texas	Panicum texanum	
Sandbur, field	Cenchrus incertus	
Signalgrass	Brachiaria platyphylla	
Sprangletop, Mexican	Leptochloa uninervia	
Sprangletop, red	Leptochloa filiformis	
Witchgrass	Panicum capillare	
Woolly cupgrass	Eriochloa villosa	

BROADLEAF WEEDS CONTROLLED		
Common Name	Scientific Name	
Burweed, lawn	Soliva pterosperma	
Carpetweed	Mollugo verticillata	
Chickweed, common	Stellaria media	
Chickweed, mouseear	Cerastium vulgatum	
Dlover, hop	Trifolium procumbens	
Dudweed	Gnaphalium spp.	
Evening primrose	Oenothera biennis	
Fiddleneck	Amsinckia intermedia	
laree	Erodium spp.	
Henbit	Lamium amplexicaule	
Knotweed, prostrate	Polygonum aviculare	
Kochia	Kochia scoparia	
ambsquarters	Chenopodium album	
Digweed	Amaranthus spp.	
Puncturevine	Tribulus terrestris	
Purslane	Portulaca oleracea	
Pusley, Florida	Richardia scabra	
Rocket, London	Sisymbrium irio	
Shepherdspurse	Capsella bursa-pastoris	
Smartweed, Pennsylvania	Polygonum pensylvanicum	
Speedwell, corn	Veronica arvensis	
Spurge, annual	Euphorbia spp.	
Spurge, prostrate	Euphorbia humistrata	
Woodsorrel, yellow	Oxalis stricta	
Velvetleaf (Buttonweed)	Abutilon theophrasti	

Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

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