



The Chemical Company

SPECIMEN

PENDulum®

3.3 EC herbicide

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

ACTIVE INGREDIENT:

pendimethalin, N-(1-ethylpropyl)-3,4-dimethyl-2, 6-dinitrobenzenamine 37.4%

INERT INGREDIENTS* 62.6%

TOTAL 100.0%

(1 gallon contains 3.3 lbs of pendimethalin)

*Contains Petroleum Distillates

EPA Reg. No. 241-341

EPA Est. No. 241-MO-1

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.)

See inside booklet for complete **First Aid, Precautionary Statements, Directions For Use,** and **Conditions of Sale and Warranty.**

Net contents: _____

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

FIRST AID	
If in eyes	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If inhaled	<ul style="list-style-type: none"> • 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 emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).	
NOTE TO PHYSICIAN	
This 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 (≥ 8 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 ≥ 14 mils, nitrile rubber ≥ 14 mils, neoprene rubber ≥ 14 mils, or viton ≥ 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 chemical-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:

- 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.

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 herbicide application.

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

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

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 storage or disposal.

PESTICIDE STORAGE: DO NOT STORE BELOW 40° F. Extended storage at temperatures below 40° F can result in the formation of crystals on the bottom of container. If crystallization does occur, store the container on its side at room temperature (70° F) and rock occasionally 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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of 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 3.3 EC**. 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.

I. 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 herbicide** 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 post-emergence 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. Over-application 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-quarters full with clean water.
2. Add **Pendulum 3.3 EC** to the partially filled tank while agitating and then fill the remainder of the tank with water.
3. MAINTAIN CONTINUOUS AGITATION WHILE ADDING **Pendulum 3.3 EC** AND UNTIL SPRAYING 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, then 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 agitation 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.

SPRAYING INSTRUCTIONS FOR PENDULUM 3.3 EC

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. 20-40 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.

TURFGRASSES

APPLICATION RATES FOR WEED CONTROL¹

Turfgrass Species	Weeds Controlled	Rates of Pendulum® 3.3 EC herbicide	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	3.6 to 4.8 pts/acre or 1.3 to 1.8 oz/1,000 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 5-8 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/1,000 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/1,000 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.
	cudweed <i>Poa annua</i> chickweed lawn burweed henbit corn speedwell	3.6 to 4.8 pts/acre or 1.3 to 1.8 oz/1,000 sq ft	Apply in late summer or early fall prior to weed germination.
WARM SEASON GRASSES			
Bahigrass 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	Residential² Turf Uses Only: 3.6 to 4.8 pts/acre or 1.3 to 1.8 oz/1,000 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/1,000 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 5-8 weeks if necessary.
	goosegrass	3.6 pts/acre or 1.3 oz/1000 sq ft Apply prior to weed germination in spring. Make a second application 6-8 weeks later.	An additional application of 3.6 pts/Acre (1.3 oz/1000 sq ft) may be made for extended goosegrass control 8 weeks after the second application.
	cudweed <i>Poa annua</i> chickweed lawn burweed henbit corn speedwell	3.6 to 4.8 pts/acre or 1.3 to 1.8 oz/1,000 sq ft	Apply in late summer or early fall prior to weed germination.

¹**DO NOT** exceed a maximum of 4.8 pts/acre per application for use on residential turfgrass.

DO NOT exceed a maximum of 7.2 pts/acre per application for use on commercial or non-residential turfgrass.

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

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 drive-ways, 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.

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 herbicide 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, Shepherdspurge, 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.

ORNAMENTALS

RECOMMENDED SPECIES

Pendulum 3.3 EC 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.

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

SHRUBS		SHRUBS	
Common Name	Scientific Name	Common Name	Scientific Name
Abelia, Glossy	<i>Abelia grandiflora</i>	Leucothoe, Coast	<i>Leucothoe axillaris</i>
Aucuba, Gold	<i>Aucuba japonica</i>	Lilac, Cut-leaf	<i>Syringa laciniata</i>
Azalea	<i>Rhododendron</i> spp.	Lily-of-the-Nile	<i>Agapanthus africanus</i>
Bamboo, Heavenly	<i>Nandina domestica</i>	Mahonia	<i>Mahonia aquifolium</i>
Barberry	<i>Berberis gladwynensis</i>	Mock Orange	<i>Pittosporum tobira</i>
Barberry, Japanese	<i>Berberis thunbergii</i>	Myrtle, Compact	<i>Myrtus communis</i>
Blue Indigo Bush	<i>Dalea gregii</i>	Myrtle, Wax	<i>Myrica cerifera</i>
Bottlebrush, Lemon	<i>Callistemon citrinus</i>	Nandina	<i>Nandina domestica</i>
Boxwood, Common	<i>Buxus sempervirens</i>	Oleander	<i>Nerium oleander</i>
Boxwood, Japanese	<i>Buxus microphylla</i>	Oregon Grape	<i>Mahonia aquifolium</i>
Camellia	<i>Camellia japonica</i>	Osmanthus	<i>Osmanthus fragrans</i>
Cape Jasmine	<i>Gardenia jasminoides</i>	Palm, European Fan	<i>Chamaerops humilis</i>
Cordyline	<i>Cordyline</i> spp.	Palm, Mediterranean Fan	<i>Chamaerops</i> spp.
Correa	<i>Correa</i> spp.	Phlox, Prickly	<i>Leptodactylon californicum</i>
Cotoneaster	<i>Cotoneaster apiculatus</i>	Photinia, Fraser	<i>Photinia X Fraseri</i>
Cotoneaster, Bearberry	<i>Cotoneaster dammeri</i>	Pieris, Japanese	<i>Pieris japonica</i>
Cotoneaster, Rock	<i>Cotoneaster horizontalis</i>	Pine, Mugo	<i>Pinus mugo</i>
Cypress, Italian	<i>Cupressus sempervirens</i>	Plum, Natal	<i>Carissa grandiflora</i>
Cypress, Leyland	<i>Cupressocyparis leylandii</i>	Privet, California	<i>Ligustrum ovalifolium</i>
Deutzia, Slender	<i>Deutzia gracilis</i>	Privet, Glossy	<i>Ligustrum lucidum</i>
Dogwood, Red Twig	<i>Cornus sericea</i>	Privet, Variegated	<i>Ligustrum sinensis</i>
Elaeagnus	<i>Elaeagnus ebbingei</i>	Privet, Waxleaf	<i>Ligustrum japonicum</i>
Escallonia	<i>Escallonia fradesii</i>	Pyracantha	<i>Pyracantha coccinea</i>
Euonymus	<i>Euonymus fortunei</i>	Quince, Flowering	<i>Chaenomeles japonica</i>
Euonymus, Golden	<i>Euonymus japonica</i>	Ranger, Texas	<i>Leucophyllum frutescens</i>
Euonymus, Winged	<i>Euonymus alata</i>	Redroot	<i>Ceanothus</i> spp.
Firethorn	<i>Pyracantha coccinea</i>	Rhododendron	<i>Rhododendron</i> spp.
Forsythia, Border	<i>Forsythia intermedia</i>	Robira	<i>Pittosporum tobiri</i>
Fragrant Olive	<i>Osmanthus fragrans</i>	Spice Plant	<i>Illicium parviflorum</i>
Fuschia, California	<i>Zauschneria californica</i>	Spiraea	<i>Spiraea vanhouttei</i>
Gardenia	<i>Gardenia jasminoides</i>	Spiraea, Anthony Waterer	<i>Spiraea X bumalda</i>
Hawthorne, Indian	<i>Raphiolepis indica</i>	Spiraea, Japanese	<i>Spiraea japonica</i>
Hibiscus	<i>Hibiscus syriacus</i>	Sweet Bay	<i>Laurus nobilis</i>
Holly, Chinese	<i>Ilex cornuta</i>	Trumpet Bush	<i>Tecoma stans</i>
Holly, Japanese	<i>Ilex crenata</i>	Verbena, Lemon	<i>Aloysia triphylla</i>
Holly, Fosters	<i>Ilex attenuata 'Fosteri'</i>	Viburnum	<i>Viburnum suspensum</i>
Holly, Savannah	<i>Ilex attenuata</i>	Vitex	<i>Vitex</i> spp.
Holly, Yaupon	<i>Ilex vomitoria</i>	Weigela	<i>Weigela florida</i>
Honeysuckle, Bush	<i>Diervilla lonicera</i>	Wild Lilac	<i>Ceanothus</i> spp.
Juniper	<i>Juniperus</i> spp.	Xylosma	<i>Xylosma congestum</i>
Juniper, Chinese	<i>Juniperus chinensis v. pfitzer</i>	Yellowbells	<i>Tecoma stans</i>
Juniper, Shore	<i>Juniperus conferta</i>	Yew*	<i>Taxus media</i>
Juniper, Trailing	<i>Juniperus horizontalis</i>	Yew, Japanese*	<i>Taxus cuspidata</i>
Laurel, Cherry	<i>Prunus laurocerasus</i>	Yew, Southern	<i>Podocarpus macrophyllus</i>
Laurel, Mountain	<i>Kalmia latifolia</i>	Yucca, Adam's	<i>Yucca filamentosa</i>
Laurel, Otto Luyken	<i>Prunus laurocerasus</i>	Yucca, Weeping	<i>Yucca pendula</i>
Laurel, Schipka	<i>Prunus schipkanensis</i>	*Applications should not be made during spring growth or injury to terminals may occur.	
Laurustinus	<i>Viburnum tinus</i>		
Lavender, English	<i>Lavandula angustifolia</i>		
Leucothoe	<i>Leucothoe fontanesiana</i>		

GROUND COVERS	
Common Name	Scientific Name
Ajuga	<i>Ajuga reptans</i>
Capeweed	<i>Arctotheca calendula</i>
Cinquefoil, Spring	<i>Potentilla verna</i>
Daisy, Trailing African	<i>Osteospermum fruticosum</i>
Gazania	<i>Gazania splendens</i>
Iceplant, Large Leaf	<i>Carpobrotus edulis</i>
Ivy, English	<i>Hedera helix</i>
Ivy, Geranium	<i>Pelargonium peltatum</i>
Jasmine, Asiatic	<i>Trachelospermum asiaticum</i>
Jasmine, Primrose	<i>Jasminum mesnyi</i>
Mondograss	<i>Ophiopogon japonica</i>
Myoporum	<i>Myoporum parvifolium</i>
Pachysandra	<i>Pachysandra terminalis</i>
Potentilla	<i>Potentilla fruticosa</i>
Rose-Of-Sharon	<i>Hypericum calycinum</i>
Wintercreeper	<i>Euonymus fortunei</i>

PERENNIALS	
Common Name	Scientific Name
Bleeding Heart	<i>Dicentra spectabilis</i>
Calla Lily	<i>Zantedeschia aethiopica</i>
Canna, Common Garden	<i>Canna generalis</i> 'Lucifer'
Chincherinchee	<i>Ornithogalum thyrsoides</i>
Crinum Lily	<i>Crinum</i> spp.
Fern, Asparagus	<i>Asparagus officinalis</i>
Fern, Leatherleaf	<i>Rumohra adiantiformis</i>
Freesia	<i>Freesia x hybrida</i>
Heather, Dwarf	<i>Calluna vulgaris</i>
Hosta	<i>Hosta</i> spp.
Lily	<i>Lilium</i> spp.
Liriope, Creeping	<i>Liriope spicata</i>
Liriope, Variegated	<i>Liriope muscari</i>
Montbretia	<i>Crocasmia crocosmiiflora</i>
Orchid, Peacock	<i>Acidanthera bicolor</i>
Peony, Chinese	<i>Paeonia lactiflora</i>
Wisteria	<i>Wisteria</i> spp.
Zephyr Lily	<i>Zephyranthes</i> spp.

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

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 1-2 months following treatment for possible injury. To the extent allowed by law, 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.

ORNAMENTAL RESTRICTIONS

- Apply **Pendulum 3.3 EC** to established plantings.
- **DO NOT** make applications to grafted (or budded) liners at any time.
- **DO NOT** make over-the-top applications to liners or transplants using **Pendulum 3.3 EC**.
- **DO NOT** apply **Pendulum 3.3 EC** to liners or transplants during bud break or at time of first flush of new growth.
- **Direct** sprays to soil when making applications to established liners or transplants.
- **DO NOT** allow spray to cover or penetrate foliage and/or buds or injury is likely to occur.
- **DELAY** applying **Pendulum 3.3 EC** to seedbeds, transplant beds or liners until plants have become well rooted. Care must be taken that soil or planting mixes have settled firmly following transplanting and that there are no cracks that would allow direct contact of **Pendulum 3.3 EC** with roots. When establishing rootstock, an application of **Pendulum 3.3 EC** can be made prior to budding/grafting the plants.
- Plant only those desirable plant species listed on this label into soil treated the previous season with **Pendulum 3.3 EC** or injury may occur.
- For container grown ornamentals, delay first application of this product to bareroot liners 2-4 weeks after transplanting.
- **DO NOT APPLY Pendulum 3.3 EC** in greenhouses, shadehouses or other enclosed structures.

It is recommended that treated plants be evaluated for 1-2 months prior to making application to a large number of plants. To the extent allowed by law, THE USER ASSUMES RESPONSIBILITY FOR ANY CROP DAMAGE 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 manufacturers' 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 herbicide 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:

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

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** with **ARSENAL** or diuron are recommended if control has been a problem for other herbicides.

APPLICATION RATE TABLE

For preemergence control of the weed species listed using broadcast 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 (2-4 months)	2.4 quarts	1.8 oz
Long Term (6-8 months)	4.8 quarts	3.6 oz

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 herbicide** 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 herbicides or Finale® herbicide) 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.

BROADLEAF WEEDS CONTROLLED	
Common Name	Scientific Name
Burweed, Lawn	<i>Soliva pterosperma</i>
Carpetweed	<i>Mollugo verticillata</i>
Chickweed, Common	<i>Stellaria media</i>
Chickweed, Mouseear	<i>Cerastium vulgatum</i>
Clover, Hop	<i>Trifolium procumbens</i>
Cudweed	<i>Gnaphalium</i> spp.
Eveningprimrose	<i>Oenothera biennis</i>
Fiddleneck	<i>Amsinckia intermedia</i>
Filaree	<i>Erodium</i> spp.
Henbit	<i>Lamium amplexicaule</i>
Knotweed, Prostrate	<i>Polygonum aviculare</i>
Kochia	<i>Kochia scoparia</i>
Lambsquarters	<i>Chenopodium album</i>
Pigweed	<i>Amaranthus</i> spp.
Puncturevine	<i>Tribulus terrestris</i>
Purslane	<i>Portulaca oleracea</i>
Pusley, Florida	<i>Richardia scabra</i>
Rocket, London	<i>Sisymbrium irio</i>
Shepherdspurse	<i>Capsella bursa-pastoris</i>
Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>
Speedwell, Corn	<i>Veronica arvensis</i>
Spurge, Annual	<i>Euphorbia</i> spp.
Spurge, Prostrate	<i>Euphorbia humistrata</i>
Woodsorrel, Yellow	<i>Oxalis stricta</i>
Velvetleaf (Buttonweed)	<i>Abutilon theophrasti</i>

GRASSES CONTROLLED	
Common Name	Scientific Name
Barnyardgrass	<i>Echinochloa crus-galli</i>
Bluegrass, Annual	<i>Poa annua</i>
Crabgrass	<i>Digitaria</i> spp.
Crowfootgrass	<i>Dactyloctenium aegyptium</i>
Foxtail, Giant	<i>Setaria faberi</i>
Foxtail, Green	<i>Setaria viridis</i>
Foxtail, Yellow	<i>Setaria glauca</i>
Goosegrass	<i>Eleusine indica</i>
Itchgrass	<i>Rottboellia exaltata</i>
Johnsongrass (from seed)	<i>Sorghum halepense</i>
Junglerice	<i>Echinochloa colona</i>
Lovegrass (from seed)	<i>Eragrostis</i> spp.
Panicum, Browntop	<i>Panicum fasciculatum</i>
Panicum, Fall	<i>Panicum dichotomiflorum</i>
Panicum, Texas	<i>Panicum texanum</i>
Sandbur, Field	<i>Cenchrus incertus</i>
Signalgrass	<i>Brachiaria platyphylla</i>
Sprangletop, Mexican	<i>Leptochloa uninervis</i>
Sprangletop, Red	<i>Leptochloa filiformis</i>
Witchgrass	<i>Panicum capillare</i>
Woolly Cupgrass	<i>Eriochloa villosa</i>

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 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 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. 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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