

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



**Active Ingredient:** 

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

Other Ingredients: 98.0%

Total: 100.0%

(40 lbs contains 0.8 lb of pendimethalin)

EPA Reg. No. 241-375

EPA Est No. 5905-IA-001

# CAUTION/PRECAUCION

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

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

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

**Net Contents: 40 pounds** 

® Registered Trademark of BASF

Product of U.S.A. NVA 2008-05-123-0197 2044187

Produced for: BASF Corporation 26 Davis Drive Research Triangle Park, NC 27709



	FIRST AID		
Hold eyes open and rinse slowly and gently with water for 15 to 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 on skin or clothing	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.		
If swallowed	Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center or doctor. DO NOT give anything by mouth to an unconscious person.		

#### HOT LINE NUMBER

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).

#### PRECAUTIONARY STATEMENTS

# HAZARDS TO HUMANS CAUTION

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

#### Personal Protective Equipment (PPE)

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

#### Applicators and other handlers must wear:

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

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

#### **USER SAFETY RECOMMENDATIONS**

#### Users should:

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

#### **ENVIRONMENTAL HAZARDS**

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

#### **DIRECTIONS FOR USE**

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

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

BASF Corporation does not recommend or authorize the use of this product in manufacturing, processing or preparing custom blends with other products for application to turf or ornamentals.

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

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

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**DO NOT** enter or allow worker entry into treated areas during the restricted-entry interval (REI) of **24 hours**.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- · Chemical-resistant gloves
- · Shoes plus socks

#### NONAGRICULTURAL USE REQUIREMENTS

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

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

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRE-CAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CON-TROL, CROP INJURY, OR RESIDUES.

### STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal. PESTICIDE STORAGE. DO NOT store above 120°F. Store in original containers and keep closed. Store in a cool, dry place.

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

#### **CONTAINER DISPOSAL**

#### (for paper or plastic bags)

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

Observe all cautions and limitations on this label and the labels of products used in combination with **Pendulum 2G**. The use of **Pendulum 2G** not consistent with this label can result in injury to crops, animals, or persons. Keep containers closed to avoid spills and contamination.

#### GENERAL INFORMATION

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

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

In addition, **Pendulum 2G** can be applied for general grounds maintenance around areas such as parking lots, driveways and roadsides, alleyways, blike 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.

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

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

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

The efficacy of **Pendulum 2G** will improve if the application is followed by 1/2 inch of rainfall or its equivalent in sprinkler irrigation. If **Pendulum 2G** is not activated by rainfall or irrigation within 30 days, erratic weed control may result.

Applied according to label directions and under normal growing conditions, **Pendulum 2G** will not cause injury to desirable plants. Overapplication can result in stand loss, plant injury, or soil residues. Uneven application can decrease weed control or cause plant injury. Seedling diseases, cold weather, excessive moisture, high soil pH, high soil salt concentration, or drought can weaken seedlings and plants and increase the possibility of plant damage from **Pendulum 2G**. **Pendulum 2G** may cause temporary discoloration of treated surfaces. Sweep surface clean immediately to avoid staining.

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

#### **TURFGRASS**

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

#### **TURFGRASS**

#### APPLICATION RATES FOR TURF WEED CONTROL¹ (continued)

Pondulum® 2G granulo

Turfgrass Species	Weeds	Pendulum <sup>®</sup> 2G granule herbicide Rate	Comments
COOL SEASON GRASS			
Bentgrass or established Poa annua <sup>3</sup> (1/2-inch height or taller)	Barnyardgrass Crabgrass Evening primrose Fall panicum Foxtail Hop clover Knotweed Oxalis Poa annua Prostrate spurge Purslane	75 lbs/acre in the spring prior to weed germination.	Apply a repeat application of 51 to 75 lbs/acre after 5 to 8 weeks where heavy weed infestations are expected.
	Goosegrass	75 lbs/acre in the spring prior to weed germination. Apply a repeat application of 75 lbs/acre after 5 to 8 weeks.	
	Chickweed Corn speedwell Cudweed Henbit Lawn burweed Poa annua	75 to 100 lbs/acre	Apply in late summer or early fall prior to weed germination.
WARM SEASON GRASS			
Bahiagrass Bermudagrass Buffalograss Centipedegrass Fescue, tall Paspalum, seashore St. Augustinegrass Zoysiagrass	Barnyardgrass Crabgrass Evening primrose Fall panicum Foxtail Hop clover Knotweed Oxalis Poa annua Prostrate spurge Purslane	Residential <sup>2</sup> Turf Uses Only: 75 to 100 lbs/acre in the spring prior to weed germination. Industrial and Commercial Turf Uses: 75 to 150 lbs/acre in the spring prior to weed germination.	Apply a repeat application of 51 to 75 lbs/acre after 5 to 8 weeks if necessary.
	Goosegrass	75 lbs/acre prior to weed germination in the spring. Apply a repeat application of 75 to 100 lbs/acre after 5 to 8 weeks.	An additional application of 75 lbs/acre may be applied for extended goosegrass control 8 weeks after the second application.
	Chickweed Corn speedwell Cudweed Henbit Lawn burweed Poa annua	75 to 100 lbs/acre	Apply in late summer or early fall prior to weed germination.

<sup>&</sup>lt;sup>1</sup> **DO NOT** exceed a maximum rate of 100 pounds per acre per application for use on residential turfgrass.

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

#### TURFGRASS PRECAUTIONS

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

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

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

Delay reseeding or winter overseeding of treated turfgrass for at least 3 months following the last **Pendulum 2G** application. Delay sprigging turfgrass for 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 else-

<sup>&</sup>lt;sup>2</sup> Residential is defined as turf in any residential situation as well as schools, parks and playgrounds.

<sup>&</sup>lt;sup>3</sup> Not for use on bentgrass or *Poa annua* greens or tees.

The efficacy of **Pendulum 2G** will be improved if the application is followed by 1/2 inch of rainfall or its equivalent in sprinkler irrigation. If **Pendulum 2G** is not activated by rainfall or irrigation within 30 days, erratic weed control may result.

where in this leaflet. **Pendulum® 2G granule herbicide** 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 grass in rights-of-way, roadsides, construction sites, parks, substations, lots, or similar areas:

crowfootgrass, itchgrass, johnsongrass (from seed), junglerice, lovegrass (from seed), browntop panicum, Texas panicum, field sandbur,

signalgrass, Mexican sprangletop, red sprangletop, witchgrass, woolly cupgrass, carpetweed, fiddleneck, filaree, kochia, lambsquarters, pigweed, puncturevine, Florida pusley, London rocket, shepherdspurse, Pennsylvania smartweed, annual spurge, and velvetleaf. Apply before weeds germinate. Use postemergenee herbicide such as 2.4-D. MSMA, or similar product to control established weeds.

#### **APPLICATION INSTRUCTIONS FOR PENDULUM 2G**

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

Avoid application when winds may cause drift.

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

#### SUGGESTED SPREADER SETTINGS FOR TURF

To provide proper distribution, calibrate your spreader before application. 25 lbs treats 11,000 sq ft (1/4 acre) at the 100 lbs product per acre rate.

Spreader		Ground or PTO Speed	Width of Coverage	Rate Range (lbs of product per acre)		
		(mph)	(ft)	75	100	150
Lesco Rotary				С	D	F
Scott Rotaries	R-7, R-7X	3	8	B 1/2	D	E 1/2
	R-8, R-8A, SR-1 (cone 9)	3	9	H 1/2	I	J 1/2
Lely Models	(see below)	4.5	18	3 1/4 III	3 1/2 III	4 1/2 III
Vicon	(Model 02)	4.5	18	12	16	20
	(Model 03)	4.5	10	9	10	13
Lely models WTI	R, WFR, HR and 1250. PTO at 450 r					1

#### ORNAMENTALS

**Pendulum 2G** is safe around and over the top of the established plants listed below.

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

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

ORNAMENTALS (continued)

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

TREES (continued)		TRE	ES (continued)
Common Name Scientific Name		Common Name Scientific Name	
Lilac, Japanese tree	Syringa reticulata	Trachycarpus	Trachycarpus spp.
Linden	Tilia spp.	Tulip tree	Liriodendron tulipifera
Magnolia, saucer	Magnolia soulangiana	Walnut, black	Juglans nigra
Magnolia, Southern	Magnolia grandiflora	Willow, weeping	Salix babylonica
Magnolia, star	Magnolia stellata	Yellowwood	Cladrastis lutea
Maidenhair tree	Ginkgo biloba		
Maple, Japanese	Acer palmatum		SHRUBS
Maple, Norway	Acer platanoides	Common Name	Scientific Name
Maple, paper-bark	Acer griseum	Abelia, glossy	Abelia grandiflora
Maple, red	Acer rubrum	Althaea	Hibiscus syriacus
Maple, sugar	Acer saccharum	Aucuba, gold	Aucuba japonica
Nannyberry, rusty	Viburnum rufidulum	Azalea	Rhododendron spp.
Oak, chinguapin	Quercus muehlenbergii	Bamboo, heavenly	Nandina domestica
Oak, live	Quercus virginiana	Barberry	Berberis gladwynensis
Oak, pin	Quercus palustris	Barberry, Japanese	Berberis gladwyrierisis  Berberis thunbergii
Oak, piri	Quercus rubra	Blue indigo bush	Dalea gregii
Oak, swamp chestnut	Quercus michauxii	Bottlebrush, lemon	Callistemon citrinus
Oak, water	Quercus migra	Boxwood, common	Buxus sempervirens
Oak, white	- v	Boxwood, Common Boxwood, Japanese	
Oak, willow	Quercus alba Quercus phellos	Brittlebush	Buxus microphylla Encelia farinosa
Olive Palm, date	Olea europaea	Buttonbush	Cephalanthus occidentalis
. ,	Phoenix spp.	Butterfly bush	Buddleia davidii
Palm, fan	Washingtonia spp.	Camellia	Camellia japonica
Palm, pindo	Butia spp.	Cape jasmine	Gardenia jasminoides
Palm, Washington	Washingtonia spp.	Cassia, feathery	Cassia artemisioides
Peach	Prunus persica	Cordyline	Cordyline spp.
Pear, Bradford	Pyrus calleryana 'Bradford'	Correa	Correa spp.
Pecan	Carya illinoensis	Cotoneaster	Cotoneaster apiculatus
Pine, Austrian	Pinus nigra	Cotoneaster, bearberry	Cotoneaster dammeri
Pine, Italian stone	Pinus pinea	Cotoneaster, rock	Cotoneaster horizontalis
Pine, loblolly	Pinus taeda	Cypress, Italian	Cupressus sempervirens
Pine, Monterey	Pinus radiata	Cypress, Leyland	Cupressocyparis leylandii
Pine, red	Pinus resinosa	Deutzia, slender	Deutzia gracilis
Pine, Scotch	Pinus sylvestris	Dogwood, red twig	Cornus sericea
Pine, Virginia	Pinus virginiana	Elaeagnus	Elaeagnus ebbingei
Pine, white	Pinus strobus	Escallonia	Escallonia fradesii
Plum, purple leaf	Prunus cerasifera	Euonymus	Euonymus fortunei
Poplar, black	Populus nigra	Euonymus, golden	Euonymus japonica
Redcedar, Eastern	Juniperus virginiana	Euonymus, winged	Euonymus alata
Redcedar, Western	Thuja plicata	Firethorn	Pyracantha coccinea
Red ironbark	Eucalyptus sideroxylon 'Rosea'	Forsythia, border	Forsythia intermedia
Redwood, dawn	Metasequoia glyptostroboides	Fragrant olive	Osmanthus fragrans
Sequoia, giant	Sequoiadendron giganteum	Fuschia, California	Zauschineria californica
Serviceberry	Amelanchier laevis	Gardenia	Gardenia jasminoides
Sourwood	Oxydendrum arboreum	Hawthorne, Indian	Raphiolepis indica
Spruce, Colorado blue	Picea pungens	Hibiscus	Hibiscus syriacus
Spruce, dwarf Alberta	Picea glauca 'Albertiana'	Holly, Chinese	llex cornuta
Spruce, Norway	Picea abies	Holly, Foster's	llex attenuata 'Fosteri'
Spruce, white	Picea glauca	Holly, Japanese	llex crenata
Sweetgum	Liquidambar styraciflua	Holly, Savannah	llex attenuata
Sycamore	Platanus occidentalis	Holly, yaupon	llex vomitoria

ORNAMENTALS (continued)

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

SHRUBS (continued)			
Common Name	Scientific Name		
Honeysuckle, bush	Diervilla Ionicera		
Hopbush	Dodonaea viscosa		
Hopseed bush	Dodonaea viscosa		
Hydrangea	Hydrangea macrophylla		
Juniper	Juniperus spp.		
Juniper, Chinese	Juniperus chinensis v. pfitzer		
Juniper, shore	Juniperus conferta		
Juniper, trailing	Juniperus horizontalis		
Laurel, cherry	Prunus laurocerasus		
Laurel, mountain	Kalmia latifolia		
Laurel, Otto Luyken	Prunus laurocerasus		
Laurel, Schipka	Prunus schipkanensis		
Laurustinus	Viburnum tinus		
Lavender, English	Lavandula angustifolia		
Leucothoe	Leucothoe fontanesiana		
Leucothoe, coast	Leucothoe axillaris		
Lilac, cut-leaf	Syringa laciniata		
Lily-of-the-Nile	Agapanthus africanus		
Mahonia	Mahonia aquifolium		
Mock orange	Pittosporum tobira		
Myrtle, compact	Myrtus communis		
Myrtle, wax	Myrica cerifera		
Nandina	Nandina domestica		
Oleander	Nerium oleander		
	Mahonia aquifolium		
Oregon grape Osmanthus	Osmanthus fragrans		
Palm, European fan	Chamaerops humilis		
Palm, Mediterranean fan	Chamaerops spp.		
Phlox, prickly	Leptodactylon californicum		
Photinia, Fraser	Photinia x Fraseri		
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Pieris, Japanese Pine, mugo	Pieris japonica		
	Pinus mugo		
Plum, natal	Carissa grandiflora		
Privet, California	Ligustrum ovalifolium		
Privet, glossy	Ligustrum lucidum		
Privet, variegated	Ligustrum sinensis		
Privet, waxleaf	Ligustrum japonicum		
Pyracantha	Pyracantha coccinea		
Quince, flowering	Chaenomeles japonica		
Ranger, Texas	Leucophyllum frutescens		
Redroot	Ceanothus spp.		
Rhododendron	Rhododendron spp.		
Robira	Pittosporum tobira		
Rose	Rosa spp.		
Rose-of-Sharon	Hibiscus syriacus		
Spice plant	Illicium parviflorum		
Spiraea	Spiraea vanhouttei		
Spiraea, Anthony Waterer	Spiraea x bumalda		
Spiraea, Japanese	Spiraea japonica		
Sweet bay	Laurus nobilis		
Trumpet bush	Tecoma stans		

SHRUBS (continued)		
Common Name	Scientific Name	
Verbena, lemon	Aloysia triphylla	
Viburnum	Viburnum suspensum	
Vitex	Vitex spp.	
Weigela	Weigela florida	
Wild lilac	Ceanothus spp.	
Wisteria	Wisteria spp.	
Xylosma	Xylosma congestum	
Yellowbells	Tecoma stans	
Yew	Taxus media	
Yew, Japanese	Taxus cuspidata	
Yew, Southern	Podocarpus macrophyllus	
Yucca, Adam's needle	Yucca filamentosa	
Yucca, weeping	Yucca pendula	

#### **GROUND COVERS**

Common Name	Scientific Name	
Ajuga	Ajuga reptans	
Baby sun rose	Aptenia cordifolia	
Beach strawberry	Fragaria chiloensis	
Capeweed	Arctotheca calendula	
Cinquefoil, spring	Potentilla verna	
Coyotebrush, dwarf	Baccharis pitularis	
Daisy, trailing African	Osteospermum fruticosum	
Dymondia	Dymondia margaretae	
Gazania	Gazania splendens	
Iceplant, large leaf	Carpobrotus edulis	
lvy, English	Hedera helix	
lvy, geranium	Pelargonium peltatum	
Jasmine, Asiatic	Trachelospermum asiaticum	
Jasmine, primrose	Jasminum mesnyi	
Jessamine, Carolina	Gelsemium sempervirens	
Manzanita, bearberry	Arctostaphylos uva-ursi	
Miscanthus	Miscanthus spp.	
Mondograss	Ophiopogon japonica	
Morningglory	Convolvulus spp.	
Myoporum	Myoporum parviflolium	
Pachysandra	Pachysandra terminalis	
Potentilla	Potentilla fruticosa	
Red apple	Aptenia cordifolia	
Rosemary	Rosemarinus officinalis	
Rose-of-Sharon	Hibiscus syriacus L.	
St. Johnswort, creeping	Hypericum calycinum	
Sand strawberry	Fragaria chiloensis	
Sedum	Sedum spurium	
Stonecrop	Sedum spurium	
Verbena, Peruvian	Verbena peruviana	
Vervain	Verbena peruviana	
Vetch, crown	Vicia sativa	
Vinca	Vinca minor	
Wintercreeper	Euonymous fortunei	

ORNAMENTALS (continued)

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

PERENNIALS		
Common Name	Scientific Name	
Acacia	Acacia redolens	
Alumroot <sup>1</sup>	Heuchera sanguinea	
Asparagus	Asparagus spp.	
Aster, New York	Aster novi-belgii	
Aster, Stokes	Stokesia laevis	
Astilibe (False spirea)	Astilibe spp.	
Baby's breath	Gypsophila elegans	
Beard tongue	Penstemon digitalis, P. x mexicali	
Bee balm <sup>1</sup>	Monarda didyma	
Bellflower	Campanula spp.	
Bergenia, heart-leaved¹	Bergenia cordifolia	
Bird of paradise	Caesalpinia pulcherrima	
Black-eyed Susan	Rudbeckia hirta	
Blanket flower	Gaillardia x grandiflora	
Bleeding heart	Dicentra spectabilis	
Bluestar <sup>1</sup>	Amsonia hubrichtii	
Blue false indigo	Baptisia australis	
Butterfly weed	Asclepias tuberosa	
California poppy	Eschscholzia california	
Calla lily	Zantedeschia aethiopica	
Canna, common garden	Canna-generalis 'Lucifer'	
Canadian ginger <sup>1</sup>	Asarum canadese	
Carex	Carex spp.	
Cast iron plant	Aspidistra elatior	
Chincherinchee	Ornithogalum thyrsoides	
Clover, crimson	Trifolium incarnatum	
Columbine	Aguilegia 'McKana Giant'	
Coral bells <sup>1</sup>	Heuchera sanguinea	
Coreopsis	Coreopsis lanceolata	
Crinum lily	Crinum spp.	
Crocus	Crocus spp.	
Daffodil	Narcissus spp.	
Daylily	Hemerocallis spp.	
False dragonhead	Physostegia virginiana	
Fairy duster	Calliandra eriophylla	
Fern, asparagus	Asparagus officinalis	
Fern, Boston		
Fern, leatherleaf*	Nephrolepis exaltata Rumohra adiantiformis	
·		
Fern, tree Flax, blue	Asparagus virgatus	
· .	Linum perenne	
Foamflower, heartleaf	Tirella cordifolia	
Fortnight lily	Moraea spp.	
Foxglove, common	Digitalis purpurea	
Freesia	Freesia x hybrida	
Fuschia, Arizona	Zauschneria Californica	
Gaillardia	Gaillardia pulchella	
Gaura <sup>1</sup>	Gaura lindheimeri	
Geum	Geum spp.	
Gladiolus	Gladiolus spp.	
Globe amaranth <sup>1</sup>	Gomphrena globosa	
Golden rockets <sup>1</sup>	Ligularia stenocephala	

PERENNIALS (continued)		
Common Name	Scientific Name	
Goldenrod, seaside <sup>1</sup>	S. sempervirens	
Goldenrod, showy <sup>1</sup>	S. specia	
Goldenrod, wrinkleleaf	Solidago rugosa	
Heather, dwarf	Calluna vulgaris	
Hen and chicks	Sempervivum arachnoideum, S. tectorum	
Hopflower oregano	Origanum libanoticum	
Hosta	Hosta spp.	
Hyssop, Coronado <sup>1</sup>	Agastache aurantiaca	
Hyssop, sunset	Agastache rupestris	
Ice plant, hardy or yellow	Delosperma nubigenum	
Indian blanket	Gaillardia pulchella	
Ironweed, New York <sup>1</sup>	Vernonia noveboracensis	
Jacob's ladder <sup>1</sup>	Polemonium boreale	
Joepye weed, sweetscented <sup>1</sup>	E. purpureum	
Lady's-mantle	Alchemilla mollis	
Lantana, weeping	Lantana montevidensis	
Lavender, English	Lavandula angustifolia	
Leopard's bane	Doronicum cordatum	
Lilv	Lillium spp.	
Lily, plantain	Hosta fortunei	
Liriope, big blue	Liriope muscari	
Liriope, creeping	Liriope spicata	
Liriope, variegated	Liriope muscari	
Loosestrife, garden	Lysimachia puntata	
Montbretia	Crocosmia crocosmiiflora	
Moonbeam	Coreopsis verticillata	
Nightshade	Solanum spp.	
Orchid, peacock	Acidanthera bicolor	
Oxeye daisy	Chrysanthemum leucanthemum	
Oxeye, smooth <sup>1</sup>	Heliopsis helianthoides	
Peony, Chinese	Paeonia lactiflora	
Phlox, creeping	Phlox subulata	
Purple coneflower	Echinacea purpurea	
Purple loosestrife	Lythrum virgatum	
Pussy-toes, small-leaf <sup>1</sup>	A. parvifolia	
Pussy-toes, stoloniferous <sup>1</sup>	Antennaria dioica	
Red-hot-poker	Kniphofia uvaria	
Rock cress	Aubrieta spp.	
Rosemary	Rosmarinus officinalis	
Ruscus, Israeli	Ruscus hypophyllum	
Sage, Russian	Perovskia atriplicifolia	
Sedge	Carex spp.	
Shasta daisy	Chrysanthemum x superbum	
Shrub verbena	L. montevidensis	
Sneezeweed, common	Helenium autumnale	
Spiderwort <sup>1</sup>	Tradescantia virginiana,	
,	T. x andersoniana	
Sunflower <sup>1</sup>	Helianthus spp.	
Sweet flag	Acorus calamus	
Thrift, sea pink <sup>1</sup>	Armeria martima	

#### ORNAMENTALS (continued)

Pendulum® 2G granule herbicide is safe around and over the top of the established plants listed below.

Refer to APPLICATION RATE TABLE for rates.

PERENNIALS (continued)		
Common Name Scientific Name		
Tickseed	Coreopsis lanceolata	
Transvaal daisy <sup>1</sup>	Gerbera jamesonii	
Tulip	Tulipa spp.	
Turtlehead, snakehead	Chelone spp.	
Twinspur	Diasciascia barbaerae	
Wonder flower	Ornithogalum thyrsoides	
Vervain <sup>1</sup>	Verbena Canadensis	
Yarrow	Achillea millefolium	
Zephyr lily	Zephyranthes spp.	

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

Not for use in California.

BEDDING PLANTS*		
Common Name	Scientific Name	
Ageratum	Ageratum houstonianum	
Alyssum	Alyssum saxatile	
Anemone, poppy-flowered	Anemone coronaria	
Artemesia	Artemesia spp.	
Balloonflower	Platycodon grandiflorum	
Begonia	Begonia spp.	
Cabbage, ornamental	Brassica olereacea	
Caladium	Caladium spp.	
China aster	Callistephus chinensis	
Crocosmia, Montebretia	Crocosmia x crocosmiiflora	
Dahlia	Dahlia spp.	
Dianthus	Dianthus barbatus	
Dusty miller	Senecio cineraria	
Gayfeather	Liatris spp.	
Gazania, trailing	Gazania rigens leucolaena	
Gazania, treasure flower	Gazania rigens	
Geranium	Geranium spp.	
Gloxinia	Gloxinia simningia	
Impatiens	Impatiens spp.	
Kale, ornamental	Brassica napus	
Marigold, African	Tagetes erecta	
Moss rose	Portulaca grandiflora	
Mum, garden	Chrysanthemum spp.	
Pansy	Viola tricolor	
Periwinkle	Vinca major	
Periwinkle, rose	Catharanthus roseus	
Petunia	Petunia spp.	
Plumosa cockscomb	Celosia cristata	
Portulaca	Portulaca grandiflora	
Salvia	Salvia splendens	
Snapdragon	Antirrhinum majus	
Statice	Limonium spp.	
Sweet William	Dianthus barbatus	
Vinca	Vinca major	
Zinnia	Zinnia spp.	

#### **BEDDING PLANTS\*** (continued)

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

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

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

DO NOT treat plants grown for food or feed.

DO NOT use treated plants for food or feed.

#### **ORNAMENTALS** (continued)

**Pendulum 2G** is safe around and over the top of the established plants listed below.

Refer to APPLICATION RATE TABLE for rates.

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

#### ORNAMENTAL BULBS

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

#### WILDFLOWERS

Pendulum 2G may be applied for control of susceptible annual weeds in plantings of wildflowers listed on the label (black-eyed susan, California poppy, coreopsis, oxeye daisy, etc.). Pendulum 2G may be applied to established perennial wildflowers before emergence of weeds or wildflowers. For wildflowers being established from seed, apply Pendulum 2G after wildflowers have emerged but prior to weed germination. If weeds have already germinated, use a labeled postemergence product to control emerged weeds.

Due to the diversity of species and varieties which exist in areas where wildflowers are grown, the response to **Pendulum 2G** may vary greatly. Careful testing on desirable species is recommended to determine if area-wide applications can be made.

#### ORNAMENTAL PRECAUTIONS

Apply **Pendulum 2G** to established plantings. **DELAY** applying **Pendulum 2G** to seedbeds, transplant beds, or liners until plants have become well rooted. Care must be taken that soil or planting mixes have settled firmly following transplanting and that there are no cracks that would allow direct contact of **Pendulum 2G** with roots. Applications where soil and media surfaces are uniformly covered will result in best weed control and ornamental tolerance. Plant only those desirable plant species listed on this label into soil treated the previous season with any **Pendulum** product or injury may occur.

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

DO NOT APPLY Pendulum® 2G granule herbicide in greenhouses. shadehouses or other enclosed structures.

#### LANDSCAPE AND GROUNDS MAINTENANCE

Pendulum 2G can be incorporated into landscape and grounds maintenance programs to provide extended preemergence control of most annual grasses and certain broadleaf weeds. Areas to be treated, such as mulch beds, parking areas and roadsides, fencelines and borders. around statuary or monuments, and similar areas, should be free of emerged weeds before application. To remove emerged weeds, either cultivate or apply a postemergence product labeled for such use. Refer to APPLICATION RATE TABLE for rates. Avoid unintentional contact of granules with stone, wood, or other porous surfaces as staining may occur. Sweep immediately to avoid staining. If granules are crushed into surface, rinse thoroughly.

#### NONBEARING FRUIT AND NUT CROPS AND VINEYARDS

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

Refer to APPLICATION RATE TABLE for rates.

Almond Grape Pistachio Apple Nectarine Plum Olive Apricot Prune Cherry Peach Walnut, English

Citrus Pear Pecan Fia

Apply granules directly to the ground below the trees or vines. Care must be taken that soil or planting mixes have settled firmly following transplanting and that there are no cracks that would allow direct contact of Pendulum 2G and roots. Applications where soil and media surfaces are uniformly covered will result in best weed control and plant tolerance. For newly transplanted and one-year-old grapevines, apply only when they are dormant. DO NOT apply if buds have started to swell.

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

## NONCROPLAND AREAS

#### **INCLUDING TREE PLANTATIONS**

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

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

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

#### **TOTAL VEGETATION CONTROL**

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

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

For Kochia: Use applications of Pendulum 2G following Arsenal or diuron if control has been a problem for other herbicides.

#### APPLICATION RATE TABLE

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

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

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

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

The efficacy of **Pendulum 2G** will improve if the application is followed by 1/2 inch of rainfall or its equivalent in sprinkler irrigation. If **Pendulum** 2G is not activated by rainfall or irrigation within 30 days, erratic weed control may result.

Pendulum 2G will not control established weeds.

If weeds should develop prior to activation of herbicide, shallow cultivate to destroy existing weeds or, where practical, remove by hand, When cultivating for any reason, it should be shallow. Pendulum 2G may be used before or after applications of herbicides registered for postemergence use (i.e. Roundup® or Finale) for the control of established weeds. DO NOT apply sprays containing Roundup or Finale over the top of desirable plants. A Pendulum 2G treatment may be followed by any registered herbicide to control weeds not listed on the Pendulum 2G label

#### WEED SPECIES CONTROLLED

Use **Pendulum 2G** 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	SCONTROLLED
Common Name	Scientific Name
Barnyardgrass	Echinochloa crus-galli
Bluegrass, annual	Poa annua
Crabgrass	Digitaria spp.
Crowfootgrass	Dactyloctenium aegyptium
Foxtail, giant	Setaria faberi
Foxtail, green	Setaria viridis
Foxtail, yellow	Setaria glauca
Goosegrass	Eleusine indica
Itchgrass	Rottboellia exaltata
Johnsongrass (from seed)	Sorghum halepense
Junglerice	Echinochloa colona
Lovegrass (from seed)	Eragrostis spp.
Panicum, browntop	Panicum fasciculatum
Panicum, fall	Panicum dichotomiflorum
Panicum, Texas	Panicum texanum
Sandbur, field	Cenchrus incertus
Signalgrass	Brachiaria platyphylla
Sprangletop, Mexican	Leptochloa uninervia
Sprangletop, red	Leptochloa filiformis
Witchgrass	Panicum capillare
Woolly cupgrass	Eriochloa villosa

BROADLEAF WEEDS CONTROLLED		
Common Name	Scientific Name	
Burweed, lawn	Soliva pterosperma	
Carpetweed	Mollugo verticillata	
Chickweed, common	Stellaria media	
Chickweed, mouseear	Cerastium vulgatum	
Clover, hop	Trifolium procumbens	
Cudweed	Gnaphalium spp.	
Evening primrose	Oenothera biennis	
Fiddleneck	Amsinckia intermedia	
Filaree	Erodium spp.	
Henbit	Lamium amplexicaule	
Knotweed, prostrate	Polygonum aviculare	
Kochia	Kochia scoparia	
Lambsquarters	Chenopodium album	
Pigweed	Amaranthus spp.	
Puncturevine	Tribulus terrestris	
Purslane	Portulaca oleracea	
Pusley, Florida	Richardia scabra	
Rocket, London	Sisymbrium irio	
Shepherdspurse	Capsella bursa-pastoris	
Smartweed, Pennsylvania	Polygonum pensylvanicum	
Speedwell, corn	Veronica arvensis	
Spurge, annual	Euphorbia spp.	
Spurge, prostrate	Euphorbia numistrata	
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 labelling, 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.

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000241-00375.20080219b.**NVA 2008-04-123-0029** Supersedes: NVA 2007-04-123-0007

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