

### **FOR USE IN**

Turfgrass, Ornamentals, Landscape or Grounds Maintenance, and Noncropland Areas



**Active Ingredient:** 

pendimethalin: N-(1-ethylpropyl)-3, 4-dimethyl-2, 6-dinitrobenzenamine	2.0%
Other Ingredients:	<u>98.0%</u>
Total:	100.0%
(40 lbs contains 0.8 lb of pendimethalin)	

EPA Reg. No. 241-375

**EPA Est No.** 

# KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCION

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

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

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

**Net Contents:** 



	FIRST AID	
If in eyes	<ul> <li>Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>Remove contact lenses, if present, after first 5 minutes; then continue rinsing eyes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>	
If on skin or clothing	<ul> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>	
If swallowed	<ul> <li>Call a poison control center or doctor immediately for treatment advice.</li> <li>Have person sip a glass of water if able to swallow.</li> <li>DO NOT induce vomiting unless told to do so by a poison control center or doctor.</li> <li>DO NOT give anything by mouth to an unconscious person.</li> </ul>	
HOT LINE NUMBER		

#### 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 PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, 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 equip-

**tainer.** 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 granule herbicide**. The use of **Pendulum 2G** not consistent with this

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

#### **GENERAL INFORMATION**

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

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

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

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 granule herbicide**.

**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 <sup>1</sup>			CONTROL <sup>1</sup>
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>2</sup> Turf Uses Only: 75 to 100 lbs/acre in the spring prior to weed germination. Industrial and Commercial Turf	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.
		<b>Uses:</b> 75 to 150 lbs/acre in the spring prior to weed germination.	
	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.
Bentgrass or established Poa annua³ (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.

#### **TURFGRASS**

APPLICATION RATES FOR TURF WEED CONTROL <sup>1</sup> (continued)			
Turfgrass Species	Weeds	Pendulum <sup>®</sup> 2G granule herbicide Rate	Comments
WARM SEASON GRASS			
Bahiagrass Bermudagrass Buffalograss	Barnyardgrass Crabgrass Evening primrose	Residential <sup>2</sup> Turf Uses Only: 75 to 100 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.
Centipedegrass Fescue, tall Paspalum, seashore St. Augustinegrass Zoysiagrass	Fall panicum Foxtail Hop clover Knotweed Oxalis Poa annua Prostrate spurge Purslane	<b>Industrial and Commercial Turf Uses:</b> 75 to 150 lbs/acre in the spring prior to weed germination.	
	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	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.

Poa annua

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.

**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 elsewhere in this leaflet. **Pendulum 2G** will control annual grasses and broadleaf weeds mentioned in that section

of this label as well as the following weeds that might germinate in established 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 postemergence herbicide such as 2,4-D, MSMA, or similar product to control established weeds.

<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.

#### APPLICATION INSTRUCTIONS FOR PENDULUM® 2G GRANULE HERBICIDE

Apply with properly calibrated spreader equipment to provide uniform distribution. Check application routinely to determine proper calibration. Avoid overlaps that will increase rates above those 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 (ft)	Rate Range (lbs of product per acre)		
		(mph)		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

#### **ORNAMENTALS**

**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
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	Betula 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
Crabapple	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	Cornus spp.
Dogwood, silky	Cornus 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	Tsuga canadensis
Hemlock, Eastern	Tsuga canadensis
Holly, American	llex opaca
Honeylocust	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

TREES (continued)			
Common Name	Scientific Name		
Maple, Japanese	Acer palmatum		
Maple, Norway	Acer platanoides		
Maple, paper-bark	Acer griseum		
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		
Oak, willow	Quercus phellos		
Olive	Olea europaea		
Palm, date	Phoenix spp.		
Palm, fan	Washingtonia spp.		
Palm, pindo	Butia spp.		
Palm, Washington	Washingtonia spp.		
Peach	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, Virginia	Pinus virginiana		
Pine, white	Pinus strobus		
Plum, purple leaf	Prunus cerasifera		
Poplar, black	Populus nigra		
Redcedar, Eastern	Juniperus virginiana		
Redcedar, Western	Thuja plicata		
Red ironbark	Eucalyptus sideroxylon 'Rosea'		
Redwood, dawn	Metasequoia glyptostroboides		
Seguoia, giant	Sequoiadendron giganteum		
Serviceberry	Amelanchier laevis		
Sourwood			
	Oxydendrum arboreum		
Spruce, Colorado blue Spruce, dwarf Alberta	Picea pungens		
	Picea glauca 'Albertiana'		
Spruce, White	Picea alauca		
Spruce, white	Picea glauca		
Sweetgum	Liquidambar styraciflua		
Sycamore	Platanus occidentalis		
Trachycarpus	Trachycarpus spp.		
Tulip tree	Liriodendron tulipifera		
Walnut, black	Juglans nigra		
Willow, weeping	Salix babylonica		
Yellowwood	Cladrastis lutea		

**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
Common Name	Scientific Name
Abelia, glossy	Abelia grandiflora
Althaea	Hibiscus syriacus
Aucuba, gold	Aucuba japonica
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
Brittlebush	Encelia farinosa
Buttonbush	Cephalanthus occidentalis
Butterfly bush	Buddleia davidii
Camellia	Camellia japonica
Cape jasmine	Gardenia jasminoides
Cassia, feathery	Cassia artemisioides
Cordyline	Cordyline spp.
Correa	Correa spp.
Cotoneaster	Cotoneaster apiculatus
Cotoneaster, bearberry	Cotoneaster dammeri
Cotoneaster, rock	Cotoneaster horizontalis
Cypress, Italian	Cupressus sempervirens
Cypress, Leyland	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, Foster's	llex attenuata 'Fosteri'
Holly, Japanese	llex crenata
Holly, Savannah	llex attenuata
Holly, yaupon	Ilex vomitoria
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

SHRUBS (continued)		
Common Name	Scientific Name	
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	
Oregon grape	Mahonia aquifolium	
Osmanthus	Osmanthus fragrans	
Palm, European fan	Chamaerops humilis	
Palm, Mediterranean fan	Chamaerops spp.	
Phlox, prickly	Leptodactylon californicum	
Photinia, Fraser	Photinia x Fraseri	
Pieris, Japanese	Pieris japonica	
Pine, mugo	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	
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 marnemosa  Yucca pendula	

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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	
Ivy, 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	

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-leaved <sup>1</sup>	Bergenia cordifolia	
Bird of paradise	Caesalpinia pulcherrima	
Black-eyed Susan	Rudbeckia hirta	
Blanket flower	Gaillardia x grandiflora	

	INIALS (continued)
Common Name	Scientific Name
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	Aquilegia '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	Nephrolepis exaltata
Fern, leatherleaf*	Rumohra adiantiformis
Fern, tree	Asparagus virgatus
Flax, blue	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
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
	- Juliu dia Daioi iolia
Ironweed, New York <sup>1</sup>	Vernonia noveboracensis

**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)		
Scientific Name		
E. purpureum		
Alchemilla mollis		
Lantana montevidensis		
Lavandula angustifolia		
Doronicum cordatum		
Lillium spp.		
Hosta fortunei		
Liriope muscari		
Liriope spicata		
Liriope muscari		
Lysimachia puntata		
Crocosmia crocosmiiflora		
Coreopsis verticillata		
Solanum spp.		
Acidanthera bicolor		
Chrysanthemum leucanthemum		
Heliopsis helianthoides		
Paeonia lactiflora		
Phlox subulata		
Echinacea purpurea		
Lythrum virgatum		
A. parvifolia		
Antennaria dioica		
Kniphofia uvaria		
Aubrieta spp.		
Rosmarinus officinalis		
Ruscus hypophyllum		
Perovskia atriplicifolia		
Carex spp.		
Chrysanthemum x superbum		
L. montevidensis		
Helenium autumnale		
Tradescantia virginiana, T. x andersoniana		
Helianthus spp.		
Acorus calamus		
Armeria martima		
Coreopsis lanceolata		
Gerbera jamesonii		
Tulipa spp.		
Chelone spp.		
Diasciascia barbaerae		
Ornithogalum thyrsoides		
Cirilli logalari alyroolacc		
Verbena Canadensis		

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

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.		

<sup>\*</sup>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.

<sup>&</sup>lt;sup>1</sup>Not for use in California.

Pendulum® 2G granule herbicide 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 (blackeyed susan, California poppy, coreopsis, oxeye daisy, etc.).

Pendulum 2G may be applied to established perennial wildflowers before emergence of weeds or wildflowers. For wildflowers being established from seed, apply Pendulum 2G after wildflowers have emerged but prior to weed germination. If weeds have already germinated, use a labeled postemergence product to control emerged weeds.

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

#### **ORNAMENTAL PRECAUTIONS**

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

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

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

#### LANDSCAPE AND GROUNDS MAINTENANCE

**Pendulum 2G** can be incorporated into landscape and grounds maintenance programs to provide extended preemergence control of most annual grasses and certain broadleaf weeds. Areas to be treated, such as mulch beds, parking areas and roadsides, fencelines and borders, around statuary or monuments, and similar areas, should be free of emerged weeds before application. To remove emerged weeds, either cultivate or apply a postemergence product labeled for such use.

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

## NONBEARING FRUIT AND NUT CROPS AND VINEYARDS

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

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

Refer to APPLICATION RATE TABLE for rates.

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

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

## NONCROPLAND AREAS INCLUDING TREE PLANTATIONS

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 granule herbicide 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

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

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

The efficacy of **Pendulum 2G** will improve if the application is followed by 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.

GRASS	ES 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	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 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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1107

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