PENDULUM™ WDG herbicide

water dispersible granule

FOR USE IN ORNAMENTALS

ACTIVE INGREDIENT:

pendimethalin, N-(1-ethylpropyl)-3,4-dimethyl-2,

6-dinitrobenzenamine..... 60.0%

(10 lbs. contains 6 lbs. of pendimethalin)

EPA Reg. No. 241-340

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN

CAUTION/PRECAUCION!

ACCEPTED

HAY 28 1992

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 2001

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

In case of emergency endangering life or property involving this product, call collect, day or night, Area Code 201-835-3100.

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

AMERICAN CYANAMID COMPANY
AGRICULTURAL DIVISION
VEGETATION AND PEST CONTROL
WAYNE, NJ 07470 •1992

Net Contents: 10 Pounds

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS CAUTION

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling.

STATEMENT OF PRACTICAL TREATMENT

If in eyes: Flush eyes with plenty of water. Call a physician if

irritation persists.

If on skin: Wash with plenty of soap and water. Get medical attention

if irritation persists.

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.

DISCLAINER

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

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

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

American Cyanamid Company makes no other express or implied warranty, including other express or implied warranty of FITNESS or of MERCHANTABILITY.

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

STORAGE AND DISPOSAL

STORAGE: DO NOT store above 120°F. Store in original containers and keep closed. Store in a cool, dry place.

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

PESTICIDE

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

CONTAINER

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DISPOSAL: Completely empty bag into spray tank equipment. Then dispose of empty bag in a sanitary landfill, 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 WDG. The use of PENDULUM WDG not consistent with this label can result in injury to crops, animals, or persons. Keep bags closed to avoid spills and contamination.

GENERAL INFORMATION

PENDULUM WDG herbicide provides preemergence control of most annual grasses and certain broadleaf weeds a: they germinate in and around listed established landscape, field, and container grown ornamentals.

PENDULUM WDG herbicide 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 UDG herbicide may be used in conjunction with herbicides registered for postemergence use (i.e. ROUNDUP*). 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.

^{*}Trademark of Monsanto Company

Applied according to label directions and under normal growing conditions, PENDULUM WDG or PENDULUM WDG 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, deep planting, high soil pH, high soil salt concentration, or drought can weaken seedlings and plants, and increase the possibility of plant damage from PENDULUM WDG.

MIXING DIRECTIONS

Ground Driven Sprayer: Begin with a clean spray tank. Fill the spray tank 1/2 full with clean water and while agitating, add the required amount of PENDULUM WDG slowly to the spray tank. Continue agitation and finish filling the tank. Maintain agitation during application.

Backpack Sprayer: Begin with a clean spray tank. Fill the spray tank 1/2 full with clean water and add the required amount of PENDULUM WDG 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.

Tank Mixing: Fill spray tank 1/2 full with water, add the required amount of PENDULUM WDG to the spray tank and agitate until completely dispersed. Premix (1 part product + 2 parts water) tank mix product, add to spray tank, agitate, then fill spray tank to the desired level. If any settling is noted, agitate until the mixture is well dispersed. If the spray mixture is allowed to settle for any period of time, thorough agitation is essential to resuspend the mixture before spraying is resumed.

APPLICATION

Apply with properly calibrated equipment in suffici it water to provide uniform spray distribution. Low pressure sprayers delivering 20-50 psi are suggested. Use sprayer tips and screens no finer than 50 mesh (100 mesh is finer than 50 mesh). Maintain continuous agitation while spraying to ensure proper application rate of PENDULUM WDG. Check sprayer routinely to determine proper calibration. Avoid overlaps that will increase races above those recommended. Avoid application when winds may cause drift. Avoid contact of spray solution with porous surfaces such as driveways, stone, or wood. Rinse immediately with water to avoid staining.

CULTURAL PRACTICES

The efficacy of PENDULUM WDG will be improved if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. If weeds should develop prior to activation of herbicine, shallow cultivate to destroy existing weeds or remove by hand. If PENDUIUM WDG is not activated by rainfall or irrigation within 14 days, erratic weed control may result.

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APPLICATION RATES

For preemergence control of the weed species listed, apply PENDULUM WDG herbicide at the following rates:

Ground Driven Sprayers

Length of Control	Amount of PENDULUM WDG Product Required/Acre
Short Term Control (2-4 months)	3.3 lbs.
Long Term Control (6-8 months)	6.6 lbs.

Backpack Sprayers

Length of Control	Amount of PENDULUM WDG Product Required/1000 sq.ft.
Short Term Control (2-4 months)	1.2 oz.
Long Term Control (6-8 months)	2.4 oz.

PENDULUM WDG herbicide will not control established weeds.

PRECAUTIONS

Apply PENDULUM WDG herbicide only to established plantings. DO NOT apply PENDULUM WDG herbicide 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 WDG herbicide with roots. Directed sprays 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 PENDULUM WDG or injury may occur.

For container grown ornamentals, delay first application of this product to barerout liners 2-4 weeks.

Plant only those desirable plant species listed on this label into soil treated the previous season with PENDULUM WDG or injury may occur.

RECOMMENDED SPECIES

PENDULUM WDG is recommended for use around and over the top of all established landscape, field grown and container ornamentals listed below:

TREES

Common Name *Arborvitae, American *Arbutus Ash, Red *Basswood Birch, European Weeping Birch, River *Buckeye, Red Cedar, Northern White Cedar, Red Chamaecyparis, Boulevard *Cherry, Kwanzan . *Crabapple Crapemyrtle, Common Cryptomeria, Japanese *Cypress, Leyland Dogwood, Flowering *Dogwood, Korean Dogwood, Silky *Elm *Fir. Balsam Fir, Douglas Fir. Fraser Fir. White *Franklinia Hemlock, Eastern Holly, American Lilac. Common *Lilac, Japanese Locust, Honey *Magnolia, Saucer *Magnolia, Southern *Magnolia, Star *Maidenhair Tree *Maple, Crimson King *Maple, Japanese Maple, Red *Maple, Sugar Oak, Live *Oak, Pin Oak, Water *Oak, Willow *Palm, Date

*Palm, Fan

Scientific Name

Thuja occidentalis Arbutus spp. Fraxinus pennsylvanica Tilia spp. Betula pendula Betula nigra <u>Aesculus pavia</u> Thuia occidentalis Juniperus virginiana Chamaecvparis pisifera Prunus serrulata Malus spp. Lagerstroemia indica Cryptomeria japonica Cupressocyparis leylandii Cornus florida Cornus kousa Cornus amonum <u>Ulmus japonica</u> Abies balsamae Pseudotsuga menziesii Abies fraseri Abies concolor <u>Franklinia</u> spp. Tsuga canadensis Ilex opaca Syringa vulgaris Syringa reticulata Gleditsia triacanthos Magnolia soulangeana Magnolia grandiflora Magnolia stellata Ginkgo biloba Acer platanoides Acer palmatum Acer rubrum Acer saccharum Quercus virginiana <u>Quercus palustris</u> <u>Quercus nigra</u> Quercus phellos Phoenix spp. Washingtonia spp.

*Palm. Pindo Peach *Pine. Austrian Pine, Italian Stone Pine, Loblolly *Pine, Scotch *Pine, Virginia Pine, White *Plum, Purple Leaf *Redwood, Dawn *Serviceberry Sourwood Spruce, Colorado Blue *Spruce, Norway *Spruce, White *Sweet Gum *Sycamore *Trachycarpus *Walnut, Black *Willow, Weeping *Yellowood

SHRUBS

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Common Name

Abelia, Glossy *Aucuba, Gold Azalea Bamboo, Heavenly *Barberry Barberry, Japanese Bottlebrush Boxwood, Common *Boxwood, Japanese *Camellia Capejasmine *Cordyline *Correa *Cotoneaster Cotoneaster, Rock *Cypress, Leyland *Deutzia, Slender *Eleagnus Euonymous *Euonymous, Golden Euonymous, Winged Firethorn Forsythia, Border *Gardenia Hawthorne, Indian *Hibiscus

Scientific Name

Butia spp. Prunus persica Pinus nigra Pinus pinea Pinus taeda Pinus sylvestris Pinus virginiana Pinus strobus Prunus cerasifera Metasequoia rlyptostroboides Amelanchier laevis Oxydendron arboreum Picea pungens <u>Picea</u> <u>abies</u> Picea glauca Liquidambar styraciflua Platanus occidentalis Trachycarpus spp. Juglans nigra Salix babylonica Cladrastis lutea

Scientific Name

Abelia grandiflora Aucuba japonica Rhododendron sp. Nandina domestica <u>Berberis gladwynensis</u> Berberis thunbergii Callistemon citrinus nuxus sempervirens Buxus microphylla Camillia iaponica Garcenia jasminoides Cordyline spp. Corres spp. Cotonesster apiculata Cotoneaster horizontalis Levleudii cupressocyparis <u>Deutria gracilis</u> Eleagnus ebbingei Euonymus fortunei Euonymous japonica Euonymous alata Pyracantha coccinea Forsythia intermedia Gardenia jasminoides Raphiolepis indica Hibiscus syriucus

Holly, Chinese Holly, Japanese *Holly, Savannah Holly, Yaupon *Juniper Laurel, Mountain *Laurel, Otto Luyken Laurel, Schipka *Leucothoe *Leucothoe, Coast *Lilac, Cutleaf Lily-of-the-Nile Mock Orange Myrtle, Compact Myrtle, Wax Nandina Oleander *Osmanthus Palm, European Fan *Palm, Mediterranean Fan Photinia, Fraser Pieris, Japanese *Pine, Mugo Plum, Natal Privet, California *Privet, Glossy *Privet, Variegated Privet, Waxleaf *Quince, Flowering *Rhododendron *Spice Plant Spirea *Spirea, Japanese *Verbena, Lemon *Wild Lilac *Xylosma Yew Yew, Japanese *Yew, Pine *Yucca, Weeping

GROUND COVERS

<u>Common</u> Name

Ajuga Capeweed Coyotebrush, Dwarf Daisy, Trailing African

Scientific Name

Ilex cornuta Ilex crenata Ilex attenuata <u>Ilex vomitoria</u> Juniperus sp. Kalmia latifolia Prunus laurocerasus Prunus schipkanensis Leucothoe fontanesiana Leucothoe axillaris Syringa laciniata Agapanthus africanus <u>Pittosporum tobira</u> Myrtus communis <u>Mvrica cerifera</u> Nandina domestica <u>Nerium oleander</u> Osmanthus fragrans Chamaerops humilis Chamaerops spp. Photinia X Fraseri Pieris japonica Pinus mugo Carissa grandiflora <u>Ligustrum</u> ovalifolium Ligustrum lucidum Ligustrum sinensis Ligustrum japonicum Chaenomeles japonica Rhododendron sp. Illicium parviflorum Spirea vanhouttei <u>Spirea japonica</u> Aloysia spp. Ceanothus spp. Xylosma congestum Taxus media Taxus cuspidata Podocarpus macrophyllus <u>Yucca pendula</u>

Scientific Name

Ajuga reptans
Arctotheca calendula
Baccharis chiloensis
Osteospermum fructicosum

Iceplant, Large Leaf Ivy, English Ivy, Geranium *Jasmine, Asiatic *Miscanthus *Mondograss *Morninglory Myoporum Pachysandra Potentilla Potentilla Red Apple Rosemary Rose-Of-Sharon Sand Strawberry *St. Johnswort, Creeping Verbena, Peruvian Vinca *Wintercreeper

PERENNIALS

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Common Name

*Asparagus

Aster, New York *Aster, Stokes *Babys Breath *Beard Tongue Butterfly Weed *Canna Lily *Carex Daylily *Fortnight Lily *Geum Hosta *Liriope, Green Liriope, Variegated *Nightshade Purple Loosestrife *Sweet Flag *Wisteria *Yarrow

ORNAMENTAL GRASSES

Common Name

Beach Grass Fescue, Blue Fountain Grass

Scientific Name

Carpobrotus edule <u>Hedera</u> <u>helix</u> Pelargonium peltatum Trach lospermum asiaticum Miscanthus spp. Ophiopogon japonica Convolvulus spp. <u>Myoporum parviflorum</u> Pachysandra terminalis Potentilla jackmanii <u>Potentilla verna</u> Aptenia cordifolia Rosemarnus officinalis Hypericum calycinum Fragaria chiloensis Hypericum calycinum Verbena peruviana Vinca minor Euonymous fortunei

Scientific Name

Asparagus spp. <u>Aster novi-belgii</u> <u>Stokesia</u> spp. Gypsophila spp. Penstemon spp. Asclepias tuberosa Canna generalis 'Lucifer' Carex spp. Hemerocallis spp. Morea spp. Geum spp. Hosta spp. Liriope spicata Liriope muscari Solanum spp. Lythrum virgatum Acorus spp. Wisteria spp. Achillea millefolium

Scientific Name

Ammophila breviligulata
Festuca ovina
Pennisetum setaceum

Pampas Grass *Reed, Giant Ribbon Grass Tufted Hair Grass Scientific Name

Cortaderia selloana
Arundo spp.
Phalaris arundinacea
Deschampsia caespitosa

ANNUAL BEDDING PLANTS

Common Name

*Ageratum
*Chinese Aster
*Dusty Miller
*Gazania
*Gazania, Trailing
*Marigold, African
*Periwinkle

*Plumosa Cockscomb

Scientific Name

Ageratum houstonianum
Callistephus chinensis
Senecio cineraria
Gazania splendens
Gazania uniflora leucoleana
Tagetes erecta
Catharanthus roseus
Celosia cristata

WILDFLOWERS

Common Name

*Blackeyed Susan *California Poppy *Coreopsis, Lance Leaved *Oxeye Daisy Scientific Name

Rudbeckia hirta
Eschscholzia california
Coreopsis lanceolata
Chrysanthemum leucanthemum

*Do not use in California.

WEED SPECIES CONTROLLED

PENDULUM WDG is recommended for preemergence control of the weed species listed. Applications can be made around and over the top of the ornamentals listed on this label.

GRASSES CONTROLLED

Common Name

Barnyardgrass
Bluegrass, Annual
Crabgrass
Crowfootgrass
Foxtail, Giant
Foxtail, Green
Foxtail, Yellow
Goosegrass
Itchgrass
Johnsongrass (from seed)
Junglerice
Lovegrass
Panicum, Browntop

Scientific Name

Echinochloa crus-galli
Poa annua
Digitaria spp.
Dactyloctenium aegyptium
Setaria faberi
Setaria viridis
Setaria lutescens
Eleusine indica
Rottboellia exaltata
Sorghum halepense
Echinochloa colonum
Eragrostis spp.
Panicum fasciculatum

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

BROADLEAF WEEDS CONTROLLED

Common Name

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

*Do not use in California.

Scientific Name

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

Scientific Name

Soliva pterosperma Mollugo verticillata Stellaria media Cerastium vulgatum Trifolium procumbens Gnaphalium spp. Amsinckia intermedia Erodium spp. Lamium amplexicaule Polygonum aviculare Kochia scoparia Chenopodium album Amarationus spp. Tribulus terrestris Portulaça oleracea Richardia scabra Sisymbrium irio Capsella bursa-pastoris Polygonum pensylvanicum Veronica arvensis <u>Euphorbia</u> spp. Euphorbia maticulata Oxalis stricta Abutilon theophrasti