53883-86

# 7/8/2003

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

NOTICE OF PESTICIDE: <u>x</u> Registration EPA Reg. Number:53883-86

JUL 8 2003

Term of Issuance: Conditional

Name of Pesticide Product: Pendimethalin 3.3

Control Solutions, Inc. 5903 Genoa-Red Bluff Pasadena, TX 77507-1041

This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:

- 1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
- 2. a. Add on the front panel, "EPA Reg. No. 53883-86" and "EPA Est. No. 53883-XX-XX." Please provide new formulation exemption statement and revised CSF to reflect the transfer of your source.
  - b. Remove exclamation marks from the signal word "Caution."
  - c. Under "If swallowed in First Aid";

Delete: "Have person sip a glass of water if able to swallow." Add: "Do not give anything by mouth to an unconscious person." "Do not give any liquid to person."

Place the "If in eyes" statement above the "If on skin or clothing" statement.

d. Under "Personal Protective Equipment";

Replace "Chemical-resistant gloves ... or viton" with "chemical resistant gloves, made of waterproof materials, such as butyl rubber >14 mils, nitride rubber >14 mils, or neoprene rubber >14 mils."

e. Under "Directions for use";

Add the following statements to the non-agricultural use requirements box:

Page 2 EPA Reg. No. 53883-86

Keep people and pets out of the area during application."
Do not allow people or pets to enter the treated area until the sprays have settled.

f. Under "Directions for Use";

It is recommended that you add the following "Spray Drift" Statement in a new paragraph:

"Do not allow spray to drift from the application site and contact people, structures people occupy at any time and the associated property, parks and recreation areas, nontarget crops, aquatic and wetland areas, woodlands, pastures, rangelands, or animals.

For ground boom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy and when wind speed is 10 mph or less at the application site as measured by an anemometer. Use \_\_\_\_\_ (registrant to fill in blank with spray quality, e.g., fine or medium) or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles.

For aerial applications, the boom width must not exceed 75% of the wingspan or 90% of the rotary blade. Use upwind swath displacement and apply only when wind speed is 3 -- 10 mph as measured by an anemometer. Use \_\_\_\_\_\_ (registrant to fill in blank with spray quality, e.g. fine or medium) or coarser spray according to ASAE 572 definition for standard nozzles or VMD for spinning atomizer nozzles. If application includes a no-spray zone, do not release spray at a height greater than 10 feet above the ground or the crop canopy.

For overhead chemigation, apply only when wind speed is 10 mph or less.

The applicator also must use all other measures necessary to control drift."

- g. "Under "Agricultural Use Requirements";
  - Replace "Chemical-resistant gloves ... or viton" with "chemical resistant gloves, made of waterproof materials, such as butyl rubber >14 mils, nitrile rubber >14 mils, or neoprene rubber >14 mils."
  - Increase the restricted entry interval (REI) from 12 to 24 hours.
- h. Under "Storage and Disposal";

Page 3 EPA Reg. No. 53883-86

- Add "Pesticide" to the heading of "Storage."
- It is recommended that you adopt the following bulk or mini-bulk container disposal instructions:

"When the container is empty, replace the cap and seal all openings that have been opened during use; and return the container to the point of purchase, or to a designated location named at the time of purchase of this product. This container must only be refilled with this pesticide product. **Do Not Reuse the Container for Any Other Purpose.** Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and closure devices. Check for leaks after refilling and before transporting. Do not transport if this container is damaged or leaking. If the container is damaged, leaking or obsolete, contact Syngenta at 1-888-XXX-XXXX. If not returned to the point of purchase or to a designated location, triple rinse empty container and offer for recycling. Disposal of this container must be in compliance with state and local regulations.

i. Under "General Information";

The EPA Reregistration Eligibility Decision (RED) document for Pendimethalin specifies a maximum allowable application rate of 2 lbs ai/acre. Adjust the application rates accordingly.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

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EPA Form 132	0-1 (12-70)	41-1	(			· · · · · · · · · · · · · · · · · · ·	OFFICIAL I	TLE COPY

# PENDIMETHALIN 3.3 Herbicide

For the control of most annual grasses and certain broadleaf weeds in landscape or grounds maintenance, noncropland areas, ornamentals, and turf.

ACTIVE INGREDIENT:	
Pendimethalin (N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzamine)	
INERT INGREDIENTS*:	
TOTAL	
I gallon contains 3.3 pounds of pendimethalin.	
*Contains aromatic naphtha	

EPA Reg. No. 53883

EPA Est. No.

PRECAUCION AL USUARIO: 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.)

## **KEEP OUT OF REACH OF CHILDREN**

## **CAUTION / ¡PRECAUCION!** FIRST AID 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. Take off contaminated clothing If on skin or Rinse skin immediately with plenty of water for 15 - 20 minutes. clothing: ·Call a poison control center or doctor for treatment advice. Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. If in eyes: Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. ·Call a poison control center or doctor for treatment advice. If inhaled: Move person to fresh air. If person is not breathing, call 911 or an amublance, then give artificial respiration, preferably mouth-tomouth, if possible. -Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. NOTE TO PHYSICIAN: Because of increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent, vomiting should be induced only under professional supervision.

FOR CHEMICAL EMERGENCY (SPILL, LEAK, FIRE, OR EXPOSURE) CALL CHEMTREC: 1-800-424-9300

ACCEPTED with COMMENTS in EPA Letter Dated

NET CONTENTS: \_\_\_JUL 8 2003

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

## PRECAUTIONARY STATEMENTS CAUTION

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. **PERSONAL PROTECTIVE EQUIPMENT (PPE)** 

- Applicators and other handlers must wear:
  - long-sleeved shirt and long pants

· chemical-resistant gloves such as barrier laminate or viton

shoes plus socks

Follow manufacturer's instructions for cleaning/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.

#### 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.

## AGRICULTURAL CHEMICAL DO NOT SHIP OR STORE WITH FOOD, FEEDS, DRUGS, OR CLOTHING

## **DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. 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 12 hours.

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

- coveralls
  - chemical-resistant gloves such as barrier laminate or viton

shoes plus socks

#### NON-AGRICULTURAL USE REQUIREMENTS

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

### STORAGE AND DISPOSAL

**STORAGE:** Do not contaminate water, food, or feed, by storage or disposal. Open dumping is prohibited. **DO NOT** store this product near fertilizers, seeds, insecticides, or fungicides. Store at temperatures above 40°F. Extended storage at temperatures below 40°F can result in the formation of crystals on the bottom of the container. If crystallization does occur, store the container on its side at room temperature, (approximately 70°F) and rock or roll occasionally until crystals re-dissolve. Containers should not be stacked more than six (6) high. Reclose all partially used containers by thoroughly tightening screw cap. Damaged or leaking containers which cannot be used immediately should be transferred to suitable sound containers and properly marked. Absorb any spill with a suitable clay absorbent and dispose as indicated under "Pesticide Disposal".

For safety and prevention of unauthorized use, all pesticides should be stored in locked facilities.

To prevent accidental misuse, different pesticides should be stored in separate areas with enough distance between to provide clear identification.

Opened, partially used pesticides should be stored in original labeled containers when possible. When transfer to another container is necessary because of leakage or damage, carefully mark, and identify contents of the new container.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State

Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** For 5 gallon containers and under, triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. If burned, stay out of smoke.

For bulk and mini-bulk, return empty container to point of purchase for repackaging or recycling.

## WHERE TO USE

PENDIMETHALIN 3.3 is a selective soil applied herbicide for preemergence control of most annual grasses and certain broadleaf weeds as they germinate in:

Landscape or grounds maintenance

- Noncropland areas
- Ornamentals
- Turf

## GENERAL INFORMATION

## **Use** Precautions

Apply this product only as specified on this label.

PENDIMETHALIN 3.3 is formulated as an emulsifiable concentrate containing 3.3 pounds of active Pendimethalin per gallon.

PENDIMETHALIN 3.3 is a selective soil applied herbicide for preemergence control of most annual grasses and certain broadleaf weeds as they germinate, but it will not control established weeds. Established weeds should be controlled before applying PENDIMETHALIN 3.3 or by use of an appropriate postemergence herbicide, tank mix combination treatment.

PENDIMETHALIN 3.3 may be tank mixed with any product having the same crop use and restrictions allowing co-application. PENDIMETHALIN 3.3 treatments may be followed by any registered herbicide for additional weed control.

Follow PENDIMETHALIN 3.3 label directions carefully. Over-application can result in crop stand loss, crop injury, or excessive soil residues. Uneven application, improper soil incorporation, or soil incorporation deeper than recommended can decrease weed control and/or cause crop injury.

Seedling diseases, cold weather, excessive moisture, shallow or deep planting, low or high soil pH, high soil salt concentration, or drought can weaken seedlings and plants and increase the possibility of crop damage and/or reduced crop yields from PENDIMETHALIN 3.3.

To assure uniform application, mix the prescribed amount of PENDIMETHALIN 3.3 with a sufficient volume of water to provide thorough coverage of target area. Follow the recommendations given in the "APPLICATION" section of this label.

PENDIMETHALIN 3.3 used according to label directions under normal growing conditions allows for crop rotation. However, various environmental and/or agronomic factors may cause some risk to rotational crops from prior use of PENDIMETHALIN 3.3. See "Plant Back Restrictions" for additional information.

Naturally occurring biotypes of some of the weeds listed on this label may not be effectively controlled by this and/or other mitotic inhibiting products. Other herbicides with the mitotic inhibiting mode of action include other dinitroaniline herbicides such as trifluralin, and Sonalan<sup>®</sup>. To control these biotypes, tank mix PENDIMETHALIN 3.3 with other herbicide products having another mode of activity and registered for use to control that weed pest in that crop.

## MIXING

PENDIMETHALIN 3.3 readily mixes with water and most liquid fertilizers.

Always check compatibility of PENDIMETHALIN 3.3 with liquid fertilizers and other herbicides before full scale application mixing is attempted.

When applying PENDIMETHALIN 3.3 alone in water or liquid fertilizer, the spray mixture should be prepared by first placing  $\frac{1}{2}$  of the application water or liquid fertilizer into the mix tank. Start agitation and add the required amount of PENDIMETHALIN 3.3. Add remainder of application water or liquid fertilizer. Keep agitating the solution throughout application.

When tankmixing with other pesticide products, use the following guidelines:

- 1. Check compatibility of tankmix components.
- 2. Fill mix or spray tank  $\frac{1}{2}$  full with clean water (or liquid fertilizer).
- 3. Begin agitation.
- 4. Add wettable powder formulations to tank (first pre-slurry in water if applying in liquid fertilizer).
- 5. Add dry flowable formulations to tank (first pre-slurry in water if applying in liquid fertilizer).
- 6. Add liquid flowable formulations to tank.
- 7. Add emulsifiable concentrate formulations to tank.
- 8. Add PENDIMETHALIN 3.3 to tank.

9. Add remainder of water for application.

10. Maintain constant agitation until all of mixture is sprayed.

Check crop use directions in this label for additional tank mix information.

Always check other pesticide labels for additional mixing information and prohibitions.

# **APPLICATION EQUIPMENT AND SPRAY VOLUME**

**Ground:** Apply PENDIMETHALIN 3.3 in 10 or more gallons of water (20 or more gallons of liquid fertilizer) per acre with conventional spray equipment. Increase spray volumes when treating dense weed foliage or fields containing excessive crop residues to increase penetration and coverage.

Band applications should be equivalent to the broadcast rate and application volume per acre.

Air: Apply PENDIMETHALIN 3.3 in a minimum of 5 gallons of water per acre with aerial equipment. Increase spray volumes when treating dense weed foliage or applying during periods of low humidity.

**DO NOT** apply PENDIMETHALIN 3.3 if wind velocity is high enough to cause drift of the application spray off the target site or irregular spray patterns. **DO NOT** apply during periods of temperature inversions. The presence of a temperature inversion can be determined with smoke. If a smoke layer forms near the ground surface, application should be postphoned until the air is stable.

Choose spray nozzles capable of producing spray droplets able to maintain good foliage coverage and weed control. Avoid using nozzles and excessive spray boom pressure that may increase the formation of fine droplets most likely to drift. Orienting spray nozzles away from the air stream prevents shear from also producing fine droplets.

Check for local aerial application restrictions.

# APPLICATION WITH DRY FERTILIZERS

PENDIMETHALIN 3.3 may be applied via dry fertilizers impregnated with PENDIMETHALIN 3.3.

Absorb onto a minimum of 200 pounds of dry fertilizer to be applied per acre the recommended amount of PENDIMETHALIN 3.3 to be applied to that same acre.

Follow all label requirements regarding rates per acre, timing of application, incorporation, etc. and precautions in the same manner as if the PENDIMETHALIN 3.3 were applied by spray equipment.

Coated ammonium nitrate and limestone do not absorb PENDIMETHALIN 3.3 and therefore impregnation with these materials should not be attempted.

# TURF

PENDIMETHALIN 3.3 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.

# 8/17

# USE RATES ON TURF

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	WEEDO	RECOMMEN	NDED RATES		
TURFGRASS	WEEDS	fl. oz. / 1000 sq. ft.	pints / acre	APPLIÇATION	
COOL SEASON GR	ASSES				
Bluegrass, Kentucky Fescue, fine Fescue, tall Ryegrass, perennial	crabgrass foxtail <i>Poa annua</i> barnyardgrass fall panicum oxalis prostrate spurge purslane knotweed evening primrose hop clover	l.3 to l.8 oz. Initial applicatio germination	3.6 to 4.8 pt. on prior to weed in the spring.	Apply a repeat application of 2 to 3.6 pts. / acre (1 to 1.3 oz. 1000 sq. ft.) after 6-8 weeks fo extended control or where heavy weed infestations are expected.	
	goosegrass	1.3 to 1.8 oz. Initial application	3.6 to 4.8 pt. on prior to weed in the spring.	Apply a repeat application of 3.6 pts. / acre (1.3 oz. / 1000 sq. ft.) if the lower rate was used initially or for extended goosegrass control.	
	cudweed Poa annua chickweed lawn burweed henbit corn speedwell	1.3 to 1.8 oz.	3.6 to 4.8 pt.	Apply in late summer or early fall prior to weed germination.	
WARM SEASON GR	ASSES	· · · · · · · · · · · · · · · · · · ·	······································		
Bahiagrass Bermudagrass Buffalograss Centipedegrass Fescue, tall St. Augustinegrass Zoysiagrass	crabgrass foxtail <i>Poa annua</i> barnyardgrass fall panicum oxalis prostrate spurge purslane knotweed evening primrose hop clover	1.3 to 1.8 oz. Initial application germination		Apply a repeat application of 2.5 to 3.6 pts. / acre (1 to 1.3 oz. / 1000 sq. ft.) after 6-8 weeks if necessary.	
	goosegrass	1.3 oz. Apply prior to weed the spring. Make a 6-8 weeks later.		An additional application of 3.6 pt. / acre (1.3 oz. / 1000 sq. ft.) may be made for extended goosegrass control 8 weeks after the second application.	
	cudweed <i>Poa annua</i> chickweed lawn burweed henbit com speedwell	1.3 to 1.8 oz.	3.6 to 4.8 pt.	Apply in late summer or early fall prior to weed germination.	

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

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

## TURFGRASS TANK MIXES

PENDIMETHALIN 3.3 herbicide can be mixed with postemergence herbicides to control emerged weeds in turfgrasses. For annual grass control, applications can be made with Acclaim Extra® or MSMA to control emerged weeds. Broadleaf weeds can be controlled using Trimec<sup>®</sup>, Three-Way<sup>®</sup>, 2,4-D, and other similar products.

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

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

## TURFGRASS PRECAUTIONS

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

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

Do not use on greens or injury may occur.

Delay reseeding or winter overseeding of treated turfgrass for at least three months following the last PENDIMETHALIN 3.3 application. Delay sprigging turfgrass for five 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 above. PENDIMETHALIN 3.3 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 grasses in rights-of-way, roadsides, construction sites, parks, substations, lots, or similar areas:

Crowfootgrass, Itchgrass, Johnsongrass (from seed), Junglerice, Lovegrass, Browntop Panicum, Texas Panicum, Field Sandbur, Signalgrass, Mexican Sprangletop, Red Sprangletop, Witchgrass, Woolly Cupgrass, Carpetweed, Fiddleneck, Filaree, Kochia, Lambsquarters, Pigweed, Puncturevine, Florida Pusley, London Rocket, Shepherdspurse, Pennsylvania Smartweed, Annual Spurge, and Velvetleaf.

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

## ORNAMENTALS

### **RECOMMENDED SPECIES**

PENDIMETHALIN 3.3 herbicide sprays are safe around and over the top of the established plants listed below. However, not all varieties or strains of the plants listed have been tested. Unintentional consequences such as crop injury may result because of certain environmental or growing conditions, manner of use or application. Therefore, before treating a large number of plants, spray a few plants and observe for plant damage prior to full scale application.

1	Refer	to	APP	LICATIO	N RAT	FE 1	ABLE for rates.

TREES			
Common Name	Scientific Name		
Alder, European black	Alnus glutinosa		
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 Ieylandii
Dogwood, Flowering	Cornus florida
Dogwood, Korean	Cornus kousa
Dogwood, Silky	Cornus amomum
Dogwood, Shrub	Cornus spp.
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

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
Maple, Norway	Acer platanoides
Maple, Japanese	Acer palmatum
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

10/17

Pine, Italian Stone	Pinus pinea
Pine, Loblolly	Pinus taeda
Pine, Monterey	Pinus radiata
Pine, red	Pinus resinosa
Pine, Scotch	Pinus sylvestris
Pine, Slash	Pinus elliottii
Pine, Virginia	Pinus virginiana
Pine, White	Pinus strobus
Plum, Purple Leaf	Prunus cerasifera
Poplar, Black	Populus nigra
Redcedar, Eastern	Juniperus virginiana
Redcedar, Western	Thuja plicata
Red Ironbark	Eucalyptus sideroxylon 'Rosea'
Redwood, Dawn	Metasequoia glyptostroboides
Sequoia, Giant	Sequoiadendron giganteum
Serviceberry	Amelanchier laevis
Sourwood	Oxydendrum arboreum
Spruce, Colorado Blue	Picea pungens
Spruce, Dwarf Alberta	Picea glauca 'Albertiana'
Spruce, Norway	Picea abies
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
SHI	RUBS
Common Name	Scientific Name
Abelia, Glossy	Abelia grandiflora
Aucuba, Gold	Aucuba japonica
Azalea	Rhododendron spp.

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Bamboo, Heavenly	Nandina domestica
Barberry	Berberis gladwynensis
Barberry, Japanese	Berberis thunbergii
Blue Indigo Bush	Dalea gregii
Bottlebrush, Lemon	Callistemon citrinus
Boxwood, Common	Buxus sempervirens
Boxwood, Japanese	Buxus microphylla
Camellia	Camellia japonica
Cape jasmine	Gardenia jasminoides
Cordyline	Cordyline spp.
Согтеа	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	Ilex cornuta
Holly, Japanese	Ilex crenata
Holly, Fosters	llex attenuata 'Fosteri'

8

12/17

Holly, Savannah	Ilex attenuata
Holly, Yaupon	llex vomitoria
Honeysuckle, Bush	Diervilla Ionicera
Juniper	Juniperus spp.
Juniper, Chinese	Juniperus chinensis v. pfitzer
Juniper, Shore	Juniperus conferta
Juniper, Trailing	Juniperus horizontalis
Laurel, Cherry	Prunus laurocerasus
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
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
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Privet, Variegated	Ligustrum sinensis
Privet, Waxleaf	Ligustrum japonicum
Pyracantha	Pyracantha voccinea
Quince, Flowering	Chaenomeles japonica
Ranger, Texas	Leucophyllum frutescens
Redroot	Ceanothus spp.
Rhododendron	Rhododendron spp.
Robira	Pittosporum tobiri
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.
Xylosma	Xylosma congestum
Yellowbells	Tecoma stans
Yew	Taxus media
Yew, Japanese	Taxus cuspidata
Yew, Southern	Podocarpus macrophyllus
Yucca, Adam's	Yucca filamentosa
Yucca, Weeping	Yucca pendula
GROUNE	COVERS
Common Name	Scientific Name
Ajuga	Ajuga reptans
Capeweed	Arctotheca calendula
Cinquefoil, Spring	Potentilla verna
Daisy, Trailing African	Osteospermum fruticosum
Gazania	Gazania splendens

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13/17

Iceplant, Large Leaf	Carpobrotus edulis			
Ivy, English	Hedera helix			
Ivy, Geranium	Pelargonium peltatum			
Jasmine, Asiatic	Trachelospermum asiaticum			
Jasmine, Primrose	Jasminum mesnyi			
Mondograss	Ophiopogon japonica			
Myoporum	Myoporum parviflolium			
Pachysandra	Pachysandra terminalis			
Potentilla	Potentilla fruticosa			
Rose-of-Sharon	Hypericum calycinum			
Wintercreeper	Euonymous fortunei			
PERENNIALS				
Common Name	Scientific Name			
Bleeding Heart	Dicentra spectabilis			
Calla Lily	Zantedeschia aethiopica			
Canna, Common Garden	Canna generalis 'Lucifer'			
Chincherinchee	Ornithogalum thyrsoides			
Crinum Lily	Crinum spp.			
Fern, Asparagus	Asparagus officinalis			
Fern, Leatherleaf	Rumohra adiantiformis			
Freesia	Freesia X hybrida			
Heather, Dwarf	Calluna vulgaris			
Hosta	Hosta spp.			
Lily	Lillium spp			
Liriope, Creeping	Liriope spicata			
Liriope, Variegated	Liriope muscari			
Montbretia	Crocosmia crocosmiiflora			
Orchid, Peacock	Acidanthera bicolor			
Peony, Chinese	Paeonia lactiflora			
Wisteria	Wisteria spp.			
Zephyr Lily	Zephyranthes spp.			
ORNAMENTAL GRASSES				
Common Name	Scientific Name			

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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	

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PENDIMETHALIN 3.3 may be used on plant species not listed on this label. The suitability for such uses should be determined by treating a small number of such plants at the recommended rate. Treated plants should be evaluated 1-2 months following treatment for possible injury. THE USED ASSUMES RESPONSIBILITY FOR ANY CROP DAMAGE OR OTHER LIABILITY. Do not treat plants grown for food or feed. Do not use treated plants for food or feed.

## **ORNAMENTAL TANK MIXES**

Emerged weeds in ornamentals can be controlled using tank mixes containing Roundup<sup>®</sup>, Finale<sup>®</sup>, Ornamec<sup>®</sup>, Gallery<sup>®</sup>, Princep<sup>®</sup>, and other similar products. Do not apply sprays containing Roundup or Finale over the top of ornamental plants. Before tank mixing a simple jar test is recommended to insure compatibility of herbicides.

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

## **ORNAMENTAL PRECAUTIONS**

Apply PENDIMETHALIN 3.3 herbicide to established plantings. DELAY applying PENDIMETHALIN 3.3 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 PENDIMETHALIN 3.3 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 PENDIMETHALIN 3.3 or injury may occur. For container grown ornamentals, delay first application of this product to bare root liners 2-4 weeks.

## LANDSCAPE AND GROUNDS MAINTENANCE

PENDIMETHALIN 3.3 can be incorporated into landscape and grounds maintenance programs to provide extended preemergence control of most annual grasses and certain broadleaf weeds. Areas to be treated, such as mulch beds, parking areas and roadsides, fencelines and borders, around statuary or monuments, and similar areas, should be free of emerged weeds before application. To remove emerged weeds either cultivate or tank mix PENDIMETHALIN 3.3 with a postemergence product labeled for such use. Refer to APPLICATION RATE TABLE for rates. Avoid unintentional contact of spray solution with stone, wood, or other porous surfaces as staining may occur. Rinse immediately to avoid staining.

## NONCROPLAND AREAS INCLUDING TREE PLANTATIONS

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

Refer to APPLICATION RATE TABLE for rates.

PENDIMETHALIN 3.3 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 PENDIMETHALIN 3.3 from directly contacting the tree roots or being washed into the root zone via the open slit or root stunting may occur.

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

## TOTAL VEGETATIVE CONTROL

PENDIMETHALIN 3.3 may be tank mixed with Arsenal<sup>®</sup>, Plateau<sup>®</sup>, Roundup, Karmex<sup>®</sup>, Finale, Oust<sup>®</sup>, diuron, or other products to provide bare ground, or total vegetation control. PENDIMETHALIN 3.3 can be used to provide greater plant selectivity in areas where such action may be desired. Such sites might have roots of landscape vegetation, ornamentals, or desirable trees encroaching into the treated zone. Refer to tank mix partner labels regarding effects on desirable plants. DO NOT tank mix with Arsenal in California.

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

For Kochia: Combinations of PENDIMETHALIN 3.3 with Arsenal or diuron are recommended if control has been a problem for other herbicides.

## APPLICATION RATE TABLE

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

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

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

The efficacy of PENDIMETHALIN 3.3 will improve if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. If PENDIMETHALIN 3.3 is not activated by rainfall or irrigation within 30 days, erratic weed control may result. PENDIMETHALIN 3.3 herbicide 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. PENDIMETHALIN 3.3 may be used in conjunction with herbicides registered for postemergence use (i.e. Roundup or Finale) for the control of established weeds. A PENDIMETHALIN 3.3 treatment may be followed by any registered herbicide to control weeds not listed on the PENDIMETHALIN 3.3 herbicide label.

### WEED SPECIES CONTROLLED

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

BarnyardgrassEchinochloa crus-galliBluegrass, AnnualPoa annuaCrabgrassDigitaria spp.CrowfootgrassDactyloctenium aegyptiumFoxtail, GiantSetaria faberiFoxtail, GreenSetaria glaucaFoxtail, YellowSetaria glaucaFoostail, SetariaPanicum fasciculatumPanicum, BrowntipPanicum fasciculatumPanicum, FallPanicum texanumFandbur, FieldCenchrus incertusFignalgrassBrachiaria platyphyllaprangletop, MexicanLeptochloa filiformisVitchgrassPanicum capillareVoolly CupgrassEriochloa villosaBROADLEAF WEEDS CONTROLLEDFommon NameSci	GRASSES C	ONTROLLED
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andbur, FieldCenchrus incertusignalgrassBrachiaria platyphyllaprangletop, MexicanLeptochloa uninerviaprangletop, RedLeptochloa filiformisVitchgrassPanicum capillareVoolly CupgrassEriochloa villosaBROADLEAF WEEDS CONTROLLEDCommon NameScientific nameSurweed, LawnSoliva pterospermaCarpetweedMollugo verticillataChickweed, CommonStellaria mediaChickweed, MouscearCerastium vulgatumClover, HopTrifolium procumbensCudweedGnaphalium spp.veningprimroseOenothera biennis	Panicum, Fall	
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VitchgrassPanicum capillareVoolly CupgrassEriochloa villosaBROADLEAF WEEDS CONTROLLEDCommon NameScientific nameSurweed, LawnSoliva pterospermaSarpetweedMollugo verticillataChickweed, CommonStellaria mediaChickweed, MouseearCerastium vulgatumClover, HopTrifolium procumbensCudweedGnaphalium spp.VeningprimroseOenothera biennis	Sprangletop, Mexican	Leptochloa uninervia
Voolly CupgrassEriochloa villosaBROADLEAF WEEDS CONTROLLEDCommon NameScientific nameCommon NameScientific nameSurweed, LawnSoliva pterospermaCarpetweedMollugo verticillataChickweed, CommonStellaria mediaChickweed, MouscearCerastium vulgatumChover, HopTrifolium procumbensCudweedGnaphalium spp.VeningprimroseOenothera biennis	Sprangletop, Red	Leptochloa filiformis
BROADLEAF WEEDS CONTROLLEDCommon NameScientific nameSurweed, LawnSoliva pterospermaSarpetweedMollugo verticillataShickweed, CommonStellaria mediaShickweed, MouseearCerastium vulgatumSlover, HopTrifolium procumbensSudweedGnaphalium spp.veningprimroseOenothera biennis	Witchgrass	Panicum capillare
Common NameScientific nameSurweed, LawnSoliva pterospermaCarpetweedMollugo verticillataChickweed, CommonStellaria mediaChickweed, MouscearCerastium vulgatumClover, HopTrifolium procumbensCudweedGnaphalium spp.veningprimroseOenothera biennis	Woolly Cupgrass	Eriochloa villosa
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Chickweed, MouseearCerastium vulgatumClover, HopTrifolium procumbensCudweedGnaphalium spp.veningprimroseOenothera biennis	Carpetweed	Mollugo verticillata
Clover, HopTrifolium procumbensCudweedGnaphalium spp.veningprimroseOenothera biennis	Chickweed, Common	Stellaria media
UdweedGnaphalium spp.veningprimroseOenothera biennis	Chickweed, Mouseear	Cerastium vulgatum
veningprimrose Oenothera biennis	Clover, Hop	Trifolium procumbens
	Cudweed	Gnaphalium spp.
iddleneck Amsinckid intermedia		
	Eveningprimrose	Oenothera biennis

|3

16/17

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 humistrata	
Woodsorrel, Yellow	Oxalis stricta	
Velvetleaf (Buttonweed)	Abutilon theophrasti	

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