

2217-728

05/25/2004

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

MAY 25 2004

Craig Martens
PBI Gordon Corporation
P.O. Box 014090
Kansas City, MO 64101-0090

Dear Mr. Martens:

Subject: Label Revisions
Ornamec
EPA Registration Number 2217-728
Your Submission Dated January 30, 2004

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:

a. Update the Hazards to Humans section to incorporate the following:

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

b. In the Environmental Hazards Section delete "For terrestrial uses,". Refer to PR Notice 93-8. This statement is only appropriate for pesticides which bear directions for direct application to aquatic sites.

2. Submit one (1) copy of your final printed labeling before you release the product for shipment. A stamped copy of the labeling is enclosed for your records.

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If you have any questions concerning this letter, please contact Mr. James Stone at 703-305-7391. For your assistance enclosed is a copy of the scientific review.

Sincerely yours,

/s/

Joanne I. Miller
Product Manager (23)
Herbicide Branch
Registration Division (7505C)

Enclosure

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ORNAMEC®

CONTROL GRASS IN ORNAMENTALS, NURSERIES & LANDSCAPING

***SEE LABEL DIRECTIONS FOR SPECIES NOT TO BE SPRAYED OVER-THE-TOP**

ACTIVE INGREDIENT:

Fluazifop-P-butyl: Butyl(R)-2-[4-[[5-(trifluoromethyl)-2-pyridinyl]oxy]phenoxy]propanoate* 6.75%

INERT INGREDIENTS:..... 93.25%

TOTAL 100.00%

*Contains 0.50 pound (+) isomer (fluazifop-P-butyl) per gallon.
Contains petroleum distillates, xylene or xylene range aromatic solvent.
ORNAMEC® is a registered trademark of PBI/Gordon Corporation.

KEEP OUT OF REACH OF CHILDREN

CAUTION

See back panels for additional Precautionary Statements and First Aid.

**NET CONTENTS ONE U.S. QUART (32 FL.OZ.)
or (1 Pint, 1/2 Gallon, 1 Gallon, 2 1/2 Gallons)**

678/498 AP-----
EPA REG NO 2217-728
EPA EST NO 2217-KS-1 or 2217-KS-2
MANUFACTURED BY:



ACCEPTED
with COMMENTS
in EPA Letter Dated
MAY 25 2004

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. 16.

2217-728



READ THE ENTIRE LABEL FIRST. OBSERVE ALL PRECAUTIONS AND FOLLOW DIRECTIONS CAREFULLY.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: HARMFUL IF ABSORBED THROUGH SKIN OR INHALED. CAUSES EYE IRRITATION. MAY CAUSE ALLERGIC SKIN REACTIONS. Avoid contact with skin, eyes or clothing. Avoid breathing vapor or spray mist.

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 E on an EPA chemical resistance category selection chart.

Applicators and other handlers (other than mixers and loaders) must wear: long-sleeved shirt and long pants, chemical resistant gloves such as barrier laminate, nitrile rubber, neoprene rubber, or Viton, and shoes plus socks.

Mixers and loaders must wear: long-sleeved shirt and long pants, chemical resistant gloves such as barrier laminate, nitrile rubber, neoprene rubber, or Viton, shoes plus socks, protective eyewear, and chemical resistant apron when mixing or loading.

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.
- ◆ 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.

First Aid

If in eyes:	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • 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 on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 - 20 minutes. • Call a poison control center or doctor for treatment advice.
If swallowed:	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.
If inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for treatment advice.
<p>Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-877-800-5556 for emergency medical treatment advice.</p> <p>Note to Physician: Contains Petroleum distillate—vomiting may cause aspiration pneumonia.</p>	

ENVIRONMENTAL HAZARDS:

This product is toxic to fish. For terrestrial uses, do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater. Do not apply when weather conditions favor drift from target area.

PHYSICAL AND CHEMICAL HAZARDS:

Do not use or store near heat or open flame.

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 the time of application.

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 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 4 hours.

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, wear: coveralls, chemical resistant gloves such as barrier laminate, nitrile rubber, neoprene rubber, or Viton, and shoes plus socks.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

STORAGE: Store in original container only. Keep container closed when not in use. Do not store near food or feed. In case of spill or leak on floor or paved surfaces, soak up with sand, earth or synthetic absorbent. Remove to chemical waste area.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities by burning. If burned stay out of smoke.

GENERAL INFORMATION:

Ornamec® is selective postemergence herbicide for control of annual and perennial grass weeds. Ornamec® does not control broadleaf weeds or sedges (nutgrass).

Control Symptoms -- Ornamec® is a systemic herbicide which moves from the treated foliage into the shoots, roots, rhizomes, stolons, and growing points (meristematic regions) of treated grass weeds. Excellent control of a wide range of annual and perennial grass weeds will be obtained with Ornamec® when applied as recommended on this label.

Growth of treated grass weeds stops soon after application. Symptoms include loss of vigor, yellowing and/or reddening, and eventual death to the treated grass plant. Symptoms are generally observed within one to three weeks, depending on grass weed species and environmental conditions.

Ornamec® can be used to control grass weeds in many newly transplanted and established ornamentals, trees, shrubs and groundcovers in noncrop areas. See the following Tables I through IV for specific recommended uses.

Application of Ornamec® may be made over-the-top to ornamentals listed in Table I. Plants listed in Tables II through IV should have a directed spray applied to prevent contact of spray with foliage. If the growth habit of the plant or other factors do not allow a directed spray, an over-the-top application can be made to plants in Table II through IV. However, there is the possibility of damage in the range listed for each table when applied at label rates.

- ◆ Do not apply to ornamentals that may be harvested for food within one year after application.
- ◆ Do not apply this product through any type of irrigation system.

NOTICE TO BUYER AND USER: It is impossible to test every species and variety or cultivar of ornamental or nursery plants under all conditions. Plant tolerance of pesticides vary as conditions vary. Plant tolerance of Ornamec® at label rates has been found to be acceptable within the ranges specified for the indicated genera and species. Neither the manufacturer nor the seller has determined whether or not Ornamec® can safely be used on plants not specified on this label. The professional user should determine if Ornamec® can be used safely prior to use.

APPLICATION DIRECTIONS:

Timing - For ornamental use apply to actively growing grass weeds before they exceed the recommended growth stages shown below.

Do not apply Ornamec® herbicide if rainfall is expected within 1 hour.

Always add a nonionic surfactant containing at least 75% surface wetting agent at 0.25% vol./vol. (½ pint per 25 gallons) of finished spray volume.

SPOT TREATMENTS TO CONTROL GRASS IN ORNAMENTALS, NURSERIES AND LANDSCAPING AREAS:

Mix Ornamec® and only a nonionic surfactant with water according to the amounts shown below. Spray to obtain thorough coverage, but do not spray to runoff. Retreat if necessary.

To Make This Spray Volume	Add These Amounts ⁽¹⁾	
	Ornamec®	Nonionic Surfactant
1 gallon	2.5 fl.oz. (4.5 Tbs.)	1/3 fl.oz.
10 gallon	26 fl.oz.	3 fl.oz.
25 gallon	64 fl.oz.	(½ pint)
50 gallon	128 fl.oz.	(1 pint)

⁽¹⁾ 1 fluid ounce (fl.oz.) = 2 tablespoons (Tbs.) = 6 teaspoons (tsp.)

ANNUAL AND PERENNIAL GRASS CONTROL RECOMMENDATIONS:

- ◆ Use 64 to 96 fluid ounces of Ornamec® herbicide per acre and 0.25% (½ pint per 25 gallons) of a nonionic surfactant. For perennial grasses, use 96 fluid ounces of Ornamec® per acre per application and three applications will be needed.
- ◆ Spray to obtain thorough coverage of grass foliage, but not to runoff. Repeat treatments may be necessary to provide full season control.
- ◆ Use standard pesticide hollow cone or flat fan nozzles.
- ◆ Apply Ornamec® herbicide to actively growing grasses before they exceed the recommended growth stages shown below.
- ◆ Do not apply herbicide to grasses which are stressed due to moisture, temperature, low soil fertility, mechanical or chemical injury.
- ◆ Do not apply to grasses which have tillered, formed seedheads, or exceeded recommended growth stages.
- ◆ Apply Ornamec® herbicide when the first grass species in a mixed grass weed population reaches the recommended growth stage for treatment.

BERMUDAGRASS CONTROL IN ZOYSIAGRASS AND TALL FESCUE TURF:

Ornamec® may also be used to suppress and eventually control some undesirable grasses in turf areas. To control common bermudagrass and hybrid bermudagrass, follow the directions below:

Bermudagrass control in Zoysiagrass:

Late Spring:	Apply 12—16 fluid ounces of this product per acre with a nonionic surfactant. This application should be made around June 1 and repeated at 28—30 days. For spot treatments use 1/3 fluid ounce (2 teaspoons) of this product and 1/3 fluid ounce (2 teaspoons) of nonionic surfactant in one gallon of water to treat 1,000 square feet.
Mid Summer:	During hot summer weather use 16—20 fluid ounces of product per acre with a nonionic surfactant. For spot treatments use 0.4 fluid ounces (2½ teaspoons) of this product and 1/3 fluid ounce (2 teaspoons) of nonionic surfactant in one gallon of water to treat 1,000 square feet.
Note:	The 20 fluid ounce rate could cause temporary turf discoloration
Late Summer:	When bermudagrass is preparing for dormancy use 8—12 fluid ounces of this product per acre with a nonionic surfactant. For spot treatments use 0.25 fluid ounces (1½ teaspoons) of this product with 1/3 fluid ounce (2 teaspoons) of nonionic surfactant in one gallon of water to treat 1,000 square feet.

Bermudagrass control in Tall Fescue:

Apply 20—24 fluid ounces of product per acre. For spot treatment use 0.5 fluid ounce (1 tablespoon) of this product with 1/3 fluid ounce (2 teaspoons) of nonionic surfactant in one gallon of water to treat 1,000 square feet. The first application should be made in early spring (April/May) when bermudagrass is breaking dormancy. The second application should be during September/October when bermudagrass is preparing for dormancy. Applications during the hot months of summer should be avoided.

Note: This application will show slight discoloration to desirable turfgrass. Desirable grasses should recover within 10 - 14 days. Weather and cultural treatments can also affect applications. Use a minimum spray volume of 30 gallons of water per acre.

ANNUALS	
Grass Species	Growth Stage
Barnyardgrass (<i>Echinochloa crusgalli</i>)	2 to 8 inches tall, before tillering and/or heading.
Broadleaf signalgrass (<i>Brachiaria platyphylla</i>)	
Crabgrass, large (<i>Digitaria sanguinalis</i>)	
Crabgrass, smooth (<i>Digitaria ischaemum</i>)	
Fall panicum (<i>Panicum dichotomiflorum</i>)	
Field sandbur (<i>Cenchrus pauciflorus</i>)	
Foxtail, giant (<i>Setaria faberi</i>)	
Foxtail, green (<i>Setaria viridis</i>)	
Foxtail, yellow (<i>Setaria lutescens</i>)	
Goosegrass (<i>Eleusine indica</i>)	
Guineagrass, seedling (<i>Panicum maximum</i>)	
Itchgrass (<i>Rottboellia exaltata</i>)	
Johnsongrass, seedling (<i>Sorghum halepense</i>)	
Junglerice (<i>Echinochloa contracta</i>)	
Prairie cupgrass (<i>Eriochloa contracta</i>)	
Red rice (<i>Oryza sativa</i>)	
Shattercane/Wildcane/Volunteer milo (<i>Sorghum bicolor</i>)	
Southern sandbur (<i>Cenchrus echinatus</i>)	
Southwestern cupgrass (<i>Eriochloa gracilis</i>)	
Texas panicum (<i>Panicum texanum</i>)	
Volunteer barley (<i>Hordeum vulgare</i>)	
Volunteer oats (<i>Avena fatua</i>)	
Volunteer rye (<i>Secale cereale</i>)	
Volunteer corn (<i>Zea mays</i>)	
Volunteer wheat (<i>Triticum aestivum</i>)	
Wild oats (<i>Avena fatua</i>)	
Wild proso millet (<i>Panicum milliaceum</i>)	
Witchgrass (<i>Panicum capillare</i>)	
Woolly cupgrass (<i>Eriochloa villosa</i>)	
PERENNIALS	
Grass Species	Growth Stage
Bermudagrass (<i>Cynodon dactylon</i>)	4 to 8 inch runners
Guineagrass (<i>Panicum maximum</i>)	6 to 12 inches tall before seedhead initiation
Quackgrass (<i>Agropyron repens</i>)	6 to 10 inches
Rhizome johnsongrass (<i>Sorghum halepense</i>)	8 to 18 inches tall and before boot stage
Torpedograss*	3 to 6 inches tall (first application)
(<i>Panicum repens</i>)	2 to 3 inches tall (subsequent application)
Wirestem muhly (<i>Muhlenbergia frondosa</i>)	4 to 12 inches tall before seedhead initiation
*Use 96 fluid ounces/A/application. Three (3) applications will be needed.	

Table I. Over-The-Top Applications may be applied to the following ornamentals:	
◆ Use only a nonionic surfactant.	
Scientific Name	Common Name/Variety
<i>Abelia grandiflora</i>	Glossy abelia
<i>Abies concolor</i>	Concolor fir
<i>Abies procera</i>	Noble fir
<i>Acacia redolens</i>	Acacia ongerops
<i>Acacia salacina</i>	Willow-leaved acacia
<i>Acacia saligna</i>	Willow acacia
<i>Acacia schafnerii</i>	Jim wheat acacia
<i>Acacia stenophylla</i>	Shoe-string acacia
<i>Acer palmatum</i>	Maple/Japanese
<i>Acer platanoides</i>	Norway maple
<i>Acer saccharinum</i>	Silver maple
<i>Achillea filipendulina</i>	Coronation gold, fernleaf yarrow
<i>Achillea millefolium</i>	Common yarrow
<i>Acrecastrum romanzoffianum</i>	Queen palm
<i>Agapanthus africanus</i>	Peter Pan lily of the Nile
<i>Agave americana</i>	Century plant
<i>Ageratum sp.</i>	Flossflower, Pussyfoot
<i>Aglanoema commutatum</i>	Fransher evergreen, Silver Queen evergreen, Treubili ribbon evergreen
<i>Aglanoema crispum</i>	Painted evergreen
<i>Alcea rosea</i>	Hollyhock
<i>Allium schoenoprasum</i>	Chives
<i>Aloe barbadensis</i>	Barbados aloe
<i>Aloe vera</i>	Aloe
<i>Aloe zanzibarica</i>	Aloe
<i>Alyssum sp.</i>	Madwort
<i>Araucaria heterophylla</i>	Norfolk Island pine
<i>Arctostaphylos uva-ursi</i>	Red bearberry
<i>Arctotheca calendula</i>	Capeweed
<i>Arenaria verna</i>	Sandwort
<i>Asparagus densiflorus</i>	Myres asparagus, Sprenger asparagus, Sprengeri
<i>Astilbe x arendsii</i>	False spirea
<i>Atriplex sp.</i>	Saltbrush
<i>Aucuba japonica</i>	Aucuba
<i>Aucuba japonica variegata</i>	Japanese laurel
<i>Berberis mentorensis</i>	Mentor barberry
<i>Berberis thunbergii</i>	Crimson pygmy
<i>Bougainvillea sp.</i>	Raspberry ice
<i>Buxus microphylla var. koreana</i>	Korean boxwood
<i>Buxus microphylla var. japonica</i>	Japanese boxwood
<i>Buxus sempervirens</i>	Welleri, Common boxwood
<i>Caesalpinia cacalaco</i>	Brazilwood
<i>Caesalpinia gilliesii</i>	Bird of paradise
<i>Calendula sp.</i>	Marigold
<i>Callistemon lanceolatus</i>	Bottle-brush
<i>Calluna vulgaris</i>	Scotch heather
<i>Camellia japonica</i>	Camellia
<i>Camellia sasanqua</i>	Sansanqua camellia
<i>Campanula carpatica</i>	Bellflower
<i>Carissa grandiflora</i>	Natal plum

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Table I. Continued...	
Scientific Name	Common Name/Variety
<i>Carissa tuttlei</i>	
<i>Carnegiea gigantea</i>	Saguaro cactus
<i>Cassia artemisioides</i>	Feathery cassia
<i>Cassia didymobotrya</i>	African cassia
<i>Cassia sturtii</i>	Senna
<i>Centaurea cineraria</i>	Dusty miller
<i>Cerastium tomentosum</i>	Snow in summer
<i>Ceratonia siliqua</i>	Carob tree
<i>Cercis canadensis</i>	Red bud
<i>Chamaecyparis obtusa</i>	Hinoki falsecypress
<i>Chamaecyparis lawsoniana</i>	Lawson cypress
<i>Chamaecyparis pisifera</i>	Sawara cypress
<i>Chamaerops excelsa</i>	Windmill palm
<i>Chamaerops humilis</i>	Mediterranean fan palm
<i>Chrysalidocarpus lutescens (Small)</i>	Golden fruited palm
<i>Chrysanthemum x superbum</i>	Shasta daisy
<i>Cissus rhombifolia</i>	Ellen Danica, Grape ivy
<i>Cistus hybridus</i>	Rock rose
<i>Citrus aurantium</i>	Sour orange
<i>Citrus paradisi</i>	Grapefruit
<i>Clerodendrum speciosum</i>	Pagoda flower
<i>Cleyera spp.</i>	Cleyera
<i>Clivia miniata</i>	Kaffir lily
<i>Cocos plumosa</i>	Queen palm
<i>Codiaeum variegatum</i>	Croton
<i>Coffea arabica</i>	Coffee
<i>Coleus x hybridus</i>	Coleus
<i>Convolvulus oneorum</i>	Bush morningglory
<i>Coprosma baueri</i>	Mirror plant
<i>Coprosma repens</i>	Variegated mirror plant
<i>Cordyline terminalis</i>	Ti
<i>Coreopsis verticillata</i>	Threadleaf coreopsis
<i>Cornus florida</i>	Flowering dogwood
<i>Cornus mas</i>	Cornelian cherry dogwood
<i>Cornus sericea</i>	Red twig dogwood, Flaviramea
<i>Cotoneaster apiculata</i>	Cotoneaster
<i>Cotoneaster dammeri</i>	Coral beauty, Royal beauty
<i>Cotoneaster divaricatus</i>	Spreading cotoneaster
<i>Cotoneaster microphyllus</i>	Cotoneaster
<i>Cotoneaster repens</i>	Cotoneaster
<i>Cotoneaster salicifolius franch</i>	Willowleaf cotoneaster
<i>Crossandra nilotica</i>	Crossandra
<i>Cupressus sempervirens</i>	Italian cypress
<i>Cycus revoluta</i>	Sago palm
<i>Deutzia gracilis</i>	Slender deutzia
<i>Dianthus barbatus</i>	Sweet William
<i>Dieffenbachia amoena</i>	Giant dumbcane
<i>Diervilla lonicera</i>	Bush honeysuckle
<i>Dodonea viscosa purpurea</i>	Purple hopseed bush
<i>Echinocactus sp.</i>	Hedgehog cactus
<i>Elaeagnus angustifolia</i>	Russian olive
<i>Encelia farinosa</i>	Bittle brush

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Table I. Continued...	
Scientific Name	Common Name/Variety
<i>Erythrina fusca</i>	Fastadiata, Swamp immortella
<i>Escallonia fradessii</i>	Escallonia
<i>Escallonia rubra</i>	Escallonia
<i>Eucalyptus microtheca</i>	Gum-barked coolibah
<i>Eucalyptus polyanthemos</i>	Red box gum
<i>Eucalyptus rostrata</i>	Red gum
<i>Eucalyptus spathulata</i>	Narrow-leaf gimlet
<i>Eucalytus rudis</i>	Desert gum
<i>Eugenia myrtifolia</i>	Brush cherry
<i>Euonymus alata</i>	Siebold
<i>Euonymus fortunei</i>	Euonymus
<i>Euonymus japonica</i>	Silver King
<i>Euonymus kiautschovica</i>	Spreading euonymus
<i>Euphorbia lactea</i>	Candelabra plant
<i>Euryops pectinatus</i>	Grayleafed euryops
<i>Fatshedera lizei</i>	Fatshedera
<i>Ferocactus sp.</i>	Barrel cactus
<i>Ficus benjamina</i>	Exotica weeping fig
<i>Ficus elastica decora</i>	Rubber tree
<i>Ficus macrocarpa nitiida</i>	Indian laurel
<i>Ficus nitida</i>	Indian laurel
<i>Ficus repens</i>	Creeping fig
<i>Forsythia intermedia</i>	Forsythia
<i>Forsythia sp.</i>	Forsythia
<i>Forsythia suspensa</i>	Weeping forsythia
<i>Forsythia suspensa</i>	Forsythia
<i>Fouquieria splendens</i>	Ocotillo
<i>Fragaria chiloensis</i>	Ornamental strawberry
<i>Fraxinus velutina</i>	Arizona ash
<i>Gardenia jasminoides</i>	Gardenia, dwarf
<i>Gardenia taitensis</i>	Tahitian gardenia
<i>Gazania splendens</i>	Gazania gold rush
<i>Gazania uniflora leucolaena</i>	Gazania
<i>Geijera parviflora</i>	Australia willow
<i>Gelsemium sempervirens</i>	Carolina jessamine
<i>Geranium pratense</i>	Cranesbill
<i>Gladiolus x hortulanus</i>	Debbie, Jennie, Mahogany, Stargazer
<i>Gleditsia triacanthos var. inermis</i>	Honey locust/Shade master
<i>Graptophyllum pictum</i>	Caricature plant
<i>Grevillea robusta</i>	Silk oak
<i>Grevillea rosmarinifolia</i>	Spider flower
<i>Hedera canariensis</i>	Algerian ivy
<i>Hedera helix</i>	English ivy
<i>Hedera helix hahnii</i>	Hahn's ivy
<i>Hemerocallis hybrids</i>	Daylily
<i>Hemigraphis sp.</i>	Waffle plant/Metallic plant
<i>Hesperaloe parviflora</i>	
<i>Hibiscus rose-sinensis</i>	Chinese hibiscus
<i>Hibiscus syriacus</i>	Althea
<i>Hosta lancifolia</i>	Variiegated hosta
<i>Hydrangea paniculata</i>	Panicle hydrangea
<i>Hydrangea quercifolia</i>	Oakleaf hydrangea
<i>Iberis sempervirens</i>	Candytuff

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Table I. Continued...	
Scientific Name	Common Name/Variety
<i>Ilex cornuta</i>	Dwarf burford holly
<i>Ilex crenata</i>	Japanese holly
<i>Ilex glabra</i>	Compact inkberry
<i>Ilex opaca</i>	American holly
<i>Ilex vomitoria</i>	Dwarf yaupon/Tall yaupon
<i>Ilex x attenuata</i>	Fosteri holly
<i>Ilex x meserveae</i>	Meserve holly
<i>Iris sp.</i>	Iris
<i>Isotoma sp.</i>	Blue star creeper
<i>Ixora coccinea</i>	Ixora
<i>Jacaranda acutifolia</i>	Jacaranda
<i>Jacobinia ghiesbreghtiana</i>	Water willow
<i>Juniperus chinensis</i>	Blue point, Blue vase juniper, Gold coast juniper, Gold tip, Hetzi, Hollywood, Juniper, Keteleeri, Nicks compact juniper, Parsoni, Sargent juniper, Torulosa
<i>Juniperus conferta</i>	Shore juniper
<i>Juniperus horizontalis</i>	Admiral, Plumosa
<i>Juniperus procumbens</i>	Juniper
<i>Juniperus sabina</i>	Pepin, Skandia, Buffalo, Juniper
<i>Juniperus scopulorum</i>	Cologreen, Wichita blue
<i>Juniperus virginiana</i>	Red cedar
<i>Justicia spicigera</i>	Firecracker, Mexican indigo
<i>Kochia scoparia trychophylla</i>	Compact burningbush
<i>Lagerstroemia indica</i>	Crepe myrtle
<i>Lantana camara</i>	Bush lantana
<i>Lantana sellowiana</i>	Purple lantana (trailing)
<i>Leptospermum laevigatum</i>	Australian tea tree
<i>Leucophyllum frutescens</i>	Texas sage
<i>Liatris spicata</i>	Gay feather
<i>Ligustrum amurense</i>	Amur river
<i>Ligustrum ovalifolium</i>	Privet/california
<i>Ligustrum texanum</i>	Texas privet
<i>Ligustrum x Vicari</i>	Vicari
<i>Liquidambar styraciflua</i>	American sweetgum
<i>Liriope muscari</i>	Green liriope/Variiegated liriope
<i>Liriope spicata</i>	Liriope
<i>Livistona chinensis</i>	Chinese fan palm
<i>Lonicera x morrowii</i>	Morrow honeysuckle
<i>Lonicera xylosteum</i>	Emerald mound
<i>Lysiloma thornberii</i>	Desert fern tree
<i>Lysimachia nummularia</i>	Moneywort/Wandering Sally
<i>Magnolia sp.</i>	Oregon grapeholly
<i>Magnolia stellata</i>	Star magnolia
<i>Mahonia aquifolium</i>	Mahonia
<i>Malus floribunda</i>	Showy crabapple
<i>Mesembryanthemum drosanhemum hispidum</i>	Rose ice plant
<i>Mesembryanthemum lampranthus</i>	Purple trailing ice plant
<i>Mesembryanthemum spectabilis</i>	Red spike ice plant
<i>Metrosideros excelsus</i>	New Zealand Christmas tree
<i>Musa maurelli</i>	Ethiopia banana
<i>Myoporum parvifolium</i>	Prostrate myoporum
<i>Myrica cerifera</i>	Wax myrtle

Table I. Continued...	
Scientific Name	Common Name/Variety
<i>Nephrolepis exaltata</i>	Sword fern
<i>Nerium oleander</i>	Pink, variegated, petite oleander
<i>Odocanthus sp.</i>	
<i>Olea europaea</i>	Olive tree
<i>Olneya tesota</i>	Ironwood
<i>Opuntia Cholla</i>	Cholla cactus
<i>Osmanthus fragrans</i>	Osmanthus, tea olive
<i>Osteospermum fruticosum alba</i>	White African daisy
<i>Pachysandra terminalis</i>	Japanese pachysandra
<i>Parkinsonia aculeata</i>	Green palo verde
<i>Passiflora pfordtii</i>	Passion vine
<i>Pelargonium domesticum</i>	Geranium
<i>Pelargonium peltatum</i>	Ivy geranium
<i>Pennisetum setaceum</i>	Red fountain grass
<i>Peperomia scandens</i>	Radiator plant
<i>Petunia sp.</i>	Petunia
<i>Philadelphus coronarius</i>	Aurea
<i>Philodendron oxycardium</i>	"Micans" velvetleaf philodendron
<i>Philodendron selloum</i>	Philodendron
<i>Phoenix canariensis</i>	Canary Island date palm
<i>Phoenix roebelenii</i>	Pygmy date palm
<i>Photinia x fraseri</i>	Photinia
<i>Phyllostachys aurea</i>	Golden bamboo
<i>Physocarpus fruticosa</i>	Abbotswood, Gold drop, Jackmanni
<i>Physocarpus opulifolius</i>	Dwarf Ninebark, Nanus
<i>Picea abies</i>	Norway spruce
<i>Picea glauca</i>	Black hills, Densata, Dwarf Alberta
<i>Picea omorika</i>	Serbian spruce
<i>Picea pungens</i>	Blue spruce
<i>Pieris japonica</i>	Lily-of-the-valley bush
<i>Pilea nummularifolia</i>	Creeping Charlie
<i>Pinus canariensis</i>	Canary Island pine
<i>Pinus mugo</i>	Dwarf Swiss mountain pine
<i>Pinus nigra</i>	Austrian pine/Black pine
<i>Pinus ponderosa</i>	Western/Ponderosa pine
<i>Pinus resinosa</i>	Red pine
<i>Pinus strobiformis</i>	Mexican border pine
<i>Pinus strobus</i>	Eastern white pine
<i>Pinus sylvestris</i>	Scotch pine
<i>Pittosporum phillyraeoides</i>	Desert willow
<i>Pittosporum Tobira</i>	Wheeler's dwarf, variegated
<i>Plumbago capensis</i>	Cane plumbago
<i>Podocarpus gracilior</i>	African fern pine
<i>Podocarpus macrophylla</i>	Yew pine
<i>Polygonum capitatum</i>	Pink clover
<i>Polyscias fruticosa</i>	Parsley panax
<i>Polystichum capense</i>	Shield fern
<i>Potentilla frutosa</i>	Gold drop, Primrose beauty
<i>Prosopis chilensis</i>	Chilean mesquite
<i>Prunus caroliniana compacta</i>	Carolina cherry
<i>Prunus triloba</i>	Flowering almond
<i>Pseuderanthemum atropurpureum</i>	Purple false eranthemum
<i>Pseudotsuga menziesii</i>	Douglas fir

Table I. Continued...	
Scientific Name	Common Name/Variety
<i>Pyracanta koidzumii</i>	Lodense pyracantha
<i>Pyracantha angustifolia</i>	Variegated firethorn
<i>Pyracantha coccinea</i>	Scarlet firethorn, Lalandei
<i>Pyracantha graberi</i>	Pyracantha
<i>Pyracantha koidzumii x coccinea</i>	Mojave firethorn
<i>Pyrus calleryana</i>	Bradford pear
<i>Quercus virginiana</i>	Oak, live
<i>Raphiolepis indica</i>	Pink lady
<i>Raphiolepis umbellata</i>	Yedda/Indian hawthorn
<i>Rhamnus frangula</i>	Tallhedge buckthorn
<i>Rheullia californica</i>	
<i>Rhododendron "Gable Hybrid"</i>	Elizabeth Gable, Purple splendor, Rose greely
<i>Rhododendron catawbiense</i>	Chionoides rhododendron, English roseum, Lees dark purple, Purple elegans, Roseum elegans, Roseum superbum, White cattawba
<i>Rhododendron formosa</i>	Rhododendron
<i>Rhododendron obtusum</i>	Amoenum, Coral bells
<i>Rhododendron sp.</i>	Blaauw's pink, Boule de neige, Delaware Valley white, Fashion, Gerard's rose, Gibraltar, Gloria, Greeting, Gumpo pink, Gumpo white, H.H. Hume, Hahm red, Herbert, Hino red, Kaempo, Kluis sensation, Masasoit, Mother's Day, Pericat, Pink pearl, President Lincoln, Prize, Purple gem, Red ruffle, Red wing, Road runner, Rosebud, Royalty, Rutherfordiana Constance, Salmon spray, Stewartstonian, Sweetheart, Snow, Tabor, Tradition, White cascade
<i>Rhododendron yedoense</i>	Korean azalea/Poukhanense
<i>Rhus lancea</i>	African sumac standard
<i>Rosa banksiae</i>	Banksia
<i>Rosa hybrida</i>	Hybrid tea rose
<i>Rosa sp.</i>	Rose
<i>Rosmarinus officinalis prostratus</i>	Rosemary dwarf
<i>Salix alba</i>	Weeping willow
<i>Salix matsudana</i>	Tortuosa corkscrew willow
<i>Salvia greggii</i>	Autumn's sage
<i>Sansevieria sp.</i>	Moon glow
<i>Sansevieria trifasciata</i>	Hahnii/Mother-in-law's tongue
<i>Santolina chamaecy parissus</i>	Lavender cotton
<i>Schefflera arboricola</i>	Manila ripple
<i>Schinus molle</i>	California pepper tree
<i>Schinus terebinthifolius</i>	Brazilian pepper tree
<i>Sedum brevifolium</i>	Green stone crop
<i>Sedum guatemalense</i>	Brown beam
<i>Sedum spectabile</i>	Sedum
<i>Sedum x rubrotinctum</i>	Sedum
<i>Sempervivum tectorum</i>	Hen and chickens
<i>Simmiondsia chinensis</i>	Jojoba
<i>Spiraea nipponica</i>	Snowmound spirea
<i>Spiraea x billiardii</i>	Billiard spirea
<i>Spiraea x bumalda</i>	Anthony Waterer, Crispa spirea, Froebelii, Gold flame
<i>Statice sinuata</i>	Annual statice
<i>Stenocarpus sinuatus</i>	Firewheel tree

Table I. Continued...	
Scientific Name	Common Name/Variety
<i>Strelitzia nicolai</i>	Giant bird of paradise
<i>Strelitzia reginae</i>	Bird of paradise
<i>Syringa meyeri</i>	Palibin
<i>Syringa patula</i>	Korean lilac
<i>Syringa villosa</i>	James McFarlane lilac
<i>Syzygium paniculatum</i>	Australian bush cherry
<i>Tagetes sp.</i>	Marigold
<i>Taxus cuspidata</i>	Japanese yew
<i>Taxus x media</i>	Dense yew, Hicks yew, Thayeri yew
<i>Tecoma stans angustate</i>	Yellow bells
<i>Tecomaria capensis</i>	Cape honeysuckle
<i>Ternstroemia gymnanthera</i>	Cleyera
<i>Thevetia peruviana</i>	Yellow oleander tree
<i>Thuja occidentalis</i>	Emerald green, Globosa, Pyramidalis, Techny, Techny American arborvitae, White cedar, Woodwardii
<i>Thuja orientalis</i>	Arborvitae
<i>Trachelospermum asiaticum</i>	Asiatic jasmine
<i>Trachelospermum jasminoides</i>	Star jasmine
<i>Trifolium fragiferum</i>	O'Connors legume
<i>Tsuga canadensis</i>	Eastern hemlock
<i>Viburnum dentatum</i>	Arrowwood viburnum
<i>Viburnum japonicum</i>	Viburnum/Japanese snowball
<i>Viburnum odoratissium</i>	Viburnum
<i>Viburnum opulus</i>	Nanum
<i>Viburnum plicatum</i>	Doublefile viburnum/tomentosum
<i>Viburnum suspensum</i>	Sandankwa viburnum
<i>Viburnum trilobum</i>	Compact cranberrybush viburnum
<i>Viburnum x juddii</i>	Judd
<i>Viburnum x rhytidophylloides</i>	Viburnum/willowwood
<i>Vicia sp.</i>	Crown vetch
<i>Vinca major</i>	Periwinkle
<i>Vinca minor</i>	Myrtle, Dwarf periwinkle
<i>Washingtonia robusta</i>	Mexican fan palm
<i>Weigela florida</i>	Newport red, Pink weigelia
<i>Xylosma senticosa</i>	Xylosma
<i>Yucca filamentosa</i>	Yucca
<i>Yucca gloriosa</i>	Spanish dagger
<i>Yucca pendula</i>	Weeping dagger
<i>Zinnia sp.</i>	Zinnia

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Table II. Directed applications are recommended to minimize the foliar injury of the ornamentals shown in the list below:

- ◆ When possible and plant growth habit allows, applications should be made as a directed spray to the plants listed below.
- ◆ Limited testing of the same plants has shown phytotoxicity of up to 20% when Ornamec® herbicide is applied over-the-top at label rates.

Scientific Name	Common Name/Variety
<i>Abies fraseri</i>	Fraser fir
<i>Acer rubrum</i>	Red maple
<i>Ajuga variegata</i>	Bugle weed
<i>Ajuga reptans</i>	Variegated ajuga
<i>Aquilegia hybrida</i>	Columbine
<i>Arbutus unedo</i>	Strawberry tree
<i>Begonia tweediana</i>	Cats claw, Yellow trumpet
<i>Callistemon viminalis</i>	Weeping bottle-brush
<i>Ceanothus griseus</i>	Redroot
<i>Cupressocyparis leylandii</i>	Leyland cypress
<i>Dracaena fragans</i>	Massangeana, dracaena
<i>Dracaena marginata</i>	Tricolor dracaena
<i>Eucalyptus citriodora</i>	Lemon-scented gum
<i>Feijoa sellowiana</i>	Pineapple guava
<i>Gamolepsis chrysanthemoides</i>	
<i>Gazania ringens</i>	Gazania
<i>Gladiolus x hortulanus</i>	Gallery
<i>Grewia caffra</i>	Lavender star plant
<i>Herniaria glabra</i>	Green carpet
<i>Juniperus chinensis</i>	Maney, Nana, Old gold, Pfitzerana, Prostrata, Robusta, Spearmint
<i>Juniperus conferta</i>	Blue Pacific
<i>Juniperus horizontalis</i>	Blue rug, Hughes, Variagata, Webberi, Wiltonii, Youngtown compacta
<i>Juniperus japonica</i>	Juniper
<i>Juniperus sabina</i>	Arcadia, Broadmoor, Scandia, Tamariseifolia
<i>Juniperus scopulorum</i>	Pathfinder, Welchii
<i>Juniperus virginiana</i>	Grey owl, Sky rocket
<i>Lantana montevidensis</i>	White lantana
<i>Leucothoe axillaris</i>	Fetterbush
<i>Ligustrum japonicum</i>	Japanese privet
<i>Lonicera japonica</i>	Japanese honeysuckle
<i>Nandina domestica</i>	Heavenly bamboo
<i>Nerium oleander standard</i>	Oleander
<i>Ophiopogon japonicum</i>	Mondo grass
<i>Opuntia sp.</i>	Prickly pear cactus
<i>Pennisetum setaceum</i>	Green fountain grass
<i>Philodendron sp.</i>	Philodendron
<i>Plumeria acuminata</i>	Temple tree
<i>Podocarpus macrophyllus</i>	Maki
<i>Potentilla verna</i>	Spring cinquefoil
<i>Rhododendron indicum</i>	Indica
<i>Rhododendron obtusum</i>	Eureka, Kurume
<i>Rhododendron sp.</i>	P.J.M.
<i>Rhoeo spathacea</i>	Oyster plant
<i>Ruellia ciliosa</i>	Ruellia
<i>Salix caroliniana</i>	Willow

Table II. Continued....

Scientific Name	Common Name/Variety
<i>Spiraea x vanhoutteii</i>	Vanhoutte spirea
<i>Syringa chinensis</i>	Lilac
<i>Viburnum macrocephalum</i>	Chinese snowball

Table III. Directed applications are recommended to minimize the foliar injury of the ornamentals shown in the list below:

- ◆ When possible and plant growth habit allows, applications should be made as a directed spray to the plants listed below.
- ◆ Limited testing of the same plants has shown phytotoxicity of up to 50% when Ornamec® herbicide is applied over-the-top at label rates.

Scientific Name	Common Name/Variety
<i>Acacia farnesiana</i>	Sweet acacia
<i>Acacia latifolia</i>	Acacia
<i>Aptenia cordifolia</i>	Hearts and flowers
<i>Asystasia gangetica</i>	Coromandel
<i>Baccharis sarothroides</i>	Desert broom
<i>Brachychiton populneus</i>	Bottle tree
<i>Cassia condolioma</i>	Senna
<i>Cercidium praecox</i>	Sonoran palo verde
<i>Citharexylum spinosum</i>	Fiddlewood
<i>Cordyline stricta</i>	Cordyline
<i>Cupaniopsis anacardioides</i>	Carrot wood
<i>Crassula argentea</i>	Jade plant
<i>Cyperus alternifolius</i>	Umbrella plant
<i>Dicentra spectabilis</i>	Bleeding heart
<i>Dracaena deremensis</i>	Janet Craig/Warneckii
<i>Epipremnum aureum</i>	Marble Queen pothos
<i>Eucalyptus nicholii</i>	Eucalyptus
<i>Exococaria cochichinensis</i>	Chinese crenate croton
<i>Hibiscus lepenk</i>	Hibiscus
<i>Juniperus chinensis</i>	Armstrongii
<i>Juniperus scopulorum</i>	Spiny Greek, Excelsa strieta
<i>Juniperus virginiana</i>	Burkii
<i>Justicia betonia</i>	White shrimp plant
<i>Justicia brandegeana</i>	Shrimp plant
<i>Justicia carnea</i>	Kings crown
<i>Magnolia grandiflora</i>	Southern magnolia
<i>Mesembryanthemum delosperma alba</i>	White ice plant (trailing)
<i>Odontonema strictum</i>	Red justicia
<i>Oenothera berlandieri</i>	Mexican evening primrose
<i>Pachystachys lutea</i>	Yellow shrimp plant
<i>Pedilanthus tithymaloides</i>	Slipper flower
<i>Peperomia obtusifolia</i>	Baby rubber plant
<i>Plectranthus australis</i>	Swedish ivy
<i>Polygonum capitatum</i>	Pinkhead knotweed
<i>Rhododendron indicum</i>	Formosa
<i>Rhododendron obtusum</i>	Hersey red, Hino pink, Hinodegeri
<i>Rhododendron poukhanense</i>	Karen
<i>Rhus aromatica</i>	Fragrant sumac
<i>Thunbergia laurifolia</i>	Laurel-leaved thunbergia
<i>Vaccinium ashei</i>	Tifblue blueberry

Table IV. Directed applications are recommended to minimize the foliar injury of the ornamentals shown in the list below:

- ◆ When possible and plant growth habit allows, applications should be made as a directed spray to the plants listed below.
- ◆ Limited testing of the same plants has shown phytotoxicity greater than 50% when Ornamec® herbicide is applied over-the-top at label rates.

Scientific Name	Common Name/Variety
<i>Acalypha godseffiana hertophylla</i>	Copperleaf
<i>Alsophia australis</i>	Australia tree fern
<i>Betula nigra</i>	Birch/River
<i>Catharanthus roseus</i>	Madagascar periwinkle
<i>Chamaecyparis pisifera</i>	Boulevard falsecypress
<i>Chlorophytum comosum</i>	Spider plant
<i>Cortaderia selloana</i>	Pampas grass
<i>Euonymus alata</i>	Compacta
<i>Juniperus chinensis</i>	Sea green
<i>Juniperus horizontalis</i>	Blue chip, Prince of Wales, Bar harbor
<i>Juniperus scopulorum</i>	Blue haven
<i>Kalanchoe fedtschenkoi</i>	Lavender-scallops
<i>Kalanchoe tubiflora</i>	Chandelier plant
<i>Physocarpus fruticosus</i>	Katherine Dykes
<i>Rhododendron obtusum</i>	Hinocrimson
<i>Setcreasea purpurea</i>	Purple heart
<i>Zebrina pendula</i>	Wandering Jew

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