

Pm 23 2217-728

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

MAR 23 1994

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

James A. Armbruster, Ph.D.  
Chemical Consultants International  
Agent for: PBI/GORDON CORPORATION  
7270 W. 98th Terrace - Suite 100  
Overland Park, KS 66212

Subject: Label Amendment Submission of 09/01/93 in Response to PR Notice 93-7  
EPA Reg. No. 2217-728  
ORNAMEC

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable  
Printed with Soy/Canola Ink on paper that  
contains at least 50% recycled fiber

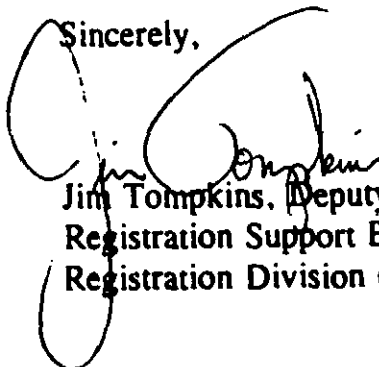
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division

James A Armbruster, Ph D  
CHEMICAL CONSULTANTS INTERNATIONAL  
AGENT FOR: PBI/GORDON CORPORATION  
7270 W 98TH TERRACE, SUITE 100  
OVERLAND PARK KS 66212

Comment for: EPA Reg Nr.2217-728  
ORNAMEC

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

Place the heading "Personal Protective Equipment" on your labeling in the location shown in Section A on Part I of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

User Safety Recommendations must either be placed in a box or printed on the label in a contrasting color from surrounding text.

Add the following User Safety Recommendation to the label in the location shown in Section A on Part I of the Product Worksheet in Supplement Three-A to PR Notice 93-7: "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."

The glove requirement for "applicators and other handlers" in the "Personal Protective Equipment" section on your proposed labeling is missing or does not match the chemical-resistance category identified on your proposed labeling. Correct the chemical-resistant category statement (if necessary) to state: "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." Remove the incorrect glove requirement (if any) and add "Chemical-resistant gloves, such as barrier laminate, nitrile rubber, neoprene rubber or viton." The exact location is shown in Sections A and B on Part I of the product Worksheet in Supplement Three-A to PR Notice 93-7.

You have incorrectly placed inside the Agricultural Use Requirements box on your proposed labeling the prohibition

**CHEMICAL CONSULTANTS INTERNATIONAL**

**EPA Reg. Number: 2217-728**

**ORNAMEC**

**Application date: 09/01/93**

**Original Submission**

against applying the product so it contacts any person (and related statements). Remove the following statements from the Agricultural Use Requirements box and place them in the Directions For Use section on your labeling immediately following (or below) the sentence "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." The exact location is shown in Section F on Part 2 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

The correct restricted entry interval (REI) for this product is 12 hours. Your REI statement must read: "Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours." The exact location is shown in Section F on Part 2 of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

Delete the crossed-out statements on your proposed label. They are redundant statements or phrases.

Correct the typographical errors circled on your proposed label.

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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.  
ORNAMEC® is a registered trademark of PBI-Gordon Corporation.

**KEEP OUT OF REACH OF CHILDREN**

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

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**CAUTION**

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

2217-728

**STATEMENT OF PRACTICAL TREATMENT**

**IF IN EYES:** Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

**IF ON SKIN:** ~~Immediately remove contaminated clothing and~~ wash thoroughly with plenty of soap and water. Get medical attention.

See back panels for additional precautionary information.

**NET CONTENTS ONE U.S. QUART (32 FL. OZ )  
OR (1 PT., 1/2 GAL., 1 GAL., 2 1/2 GAL.)**

678/993WPS AP  
EPA REG NO 2217-728  
EPA EST NO 2217-KS-1  
EPA EST NO 2217-KS-2

MFD BY PBI/GORDON CORPORATION  
KANSAS CITY, MISSOURI 64101

**STOP! 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. ~~Wear protective clothing. PVC gloves and apron and full face shield when handling or mixing concentrate. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling.~~

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  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, or Viton  $\geq$  14 mils, and shoes plus socks.

Mixers and Loaders must wear: long-sleeved shirt and long pants, chemical resistant gloves such as barrier laminate, nitrile rubber  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, or Viton  $\geq$  14 mils, 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.

**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 washwaters. Do not apply when weather conditions favor drift from target area.

**GROUNDWATER ADVISORY:** Residues of fluazifop-P-butyl can seep or leach through soil and can contaminate groundwater which may be used as drinking water. Users are advised not to apply fluazifop-P-butyl where the water table (groundwater) is close to the surface and where the soils are very permeable, i.e., well drained soils such as loamy sands. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

**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.

**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 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, <sup>or Tribe</sup> consult the agency in your State responsible for pesticide regulation.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 24 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  $\geq$  14 mils, neoprene rubber  $\geq$  14 mils, or Viton  $\geq$  14 mils, 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 a 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 nongrassy ornamentals, trees, shrubs and ground covers. 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% (1/2 pint per 25 gallons) of finished spray volume.

**-SPOT TREATMENTS-**

Mix ORNAMEC® and 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 <sup>(1)</sup>	
	ORNAMEC®	Nonionic Surfactant
1 gallon	2.5 fl. oz. (4.5 tablespoons)	1/3 fl. oz.
10 gallon	26 fl. oz.	3 fl. oz.
25 gallon	64 fl. oz.	(1/2 pint)
50 gallon	128 fl. oz.	(1 pint)

<sup>(1)</sup> 1 fluid ounce (fl. oz.) = 2 tablespoons = 6 teaspoons

**ANNUAL AND PERENNIAL GRASS CONTROL RECOMMENDATIONS**

- Use 64 to 96 fluid ounces of ORNAMEC® herbicide per acre and 0.25% (1/2 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 ORNAMEC® 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 seed heads, 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.



=====
ANNUALS

GRASS SPECIES - Growth Stage: 2 to 8 inches tall, before tillering and/or heading.

- Barnyardgrass (Echinochloa crusgalli)
Broadleaf signalgrass (Brachiaria platyphylla)
Crabgrass, Large (Digitaria sanguinalis)
Crabgrass, Smooth (Digitaria ischaemum)
Fall Panicum (Panicum dichotomiflorum)
Field sandbur (Cenchrus pauciflorus)
Foxtail, giant (Setaria faberi)
Foxtail, green (Setaria viridis)
Foxtail, yellow (Setaria lutescens)
Goosegrass (Eleusine indica)
Guineagrass, seedling (Panicum maximum)
Itchgrass (Rottboellia exaltata)
Johnsongrass, seedling (Sorghum halepense)
Junglerice (Echinochloa contracta)
Prairie cupgrass (Eriochloa contracta)
Red rice (Oryza sativa)
Shattercane/Wildcane/Volunteer milo (Sorghum bicolor)
Southern sandbur (Cenchrus echinatus)
Southwester cupgrass (Eriochloa gracilis)
Texas panicum (Panicum texanum)
Volunteer barley (Hordeum vulgare)
Volunteer oats (Avena fatua)
Volunteer rye (Secale cereale)
Volunteer corn (Zea mays)
Volunteer wheat (Triticum aestivum)
Wild oats (Avena fatua)
Wild proso millet (Panicum milliaceum)
Witchgrass (Panicum capillare)
Wooly cupgrass (Eriochloa villosa)

PERENNIALS\*

Table with 2 columns: Grass Species and Growth Stage. Includes entries for Bermudagrass, Guineagrass, Quackgrass, Rhizome johnsongrass, Torpedograss, and Wirestem muhly.

\*Use 96 fluid ounces/A/application. Three applications will be needed.

TABLE I  
 OVER-THE-TOP APPLICATIONS may be applied to the following ornamentals:  
 Use a nonionic surfactant.

Scientific Name	Common Name/Variety
Abelia grandiflora	Glossy abelia
Abies concolor	Concolor fir
Abies procera	Noble fir
Acacia redolens	Acacia ongerops
Acacia salicina	Willow-leaved acacia
Acacia saligna	Willow acacia
Acacia schafnerii	Jim wheat acacia
Acacia stenophylla	Shoe-string acacia
Acer palmatum	Maple/japanese
Acer platanoides	Norway maple
Acer saccharinum	Silver maple
Achillea filipendulina	Coronation gold, fernleaf yarrow
Achillea millefolium	Common yarrow
Acrecastrum romanzoffianum	Queen palm
Agapanthus africanus	Peter pan lily of the Nile
Agave americana	Century plant
Ageratum sp.	
Aglanoma commutatum	Silver Queen evergreen, Fransher evergreen, Treubilli Ribbon evergreen
Aglanoma crispum	Painted evergreen
Alicea rosea	Hollyhock
Allium schoenoprasum	Chives
Aloe barbadensis	Barbados aloe
Aloe vera	
Aloe zanzibarica	
Alyssum sp.	
Araucaria heterophylla	Norfolk Island pine
Arctostaphylos uva-ursi	Red bearberry
Arctotheca calendula	Capeweed
Arenaria verna	Sandwort
Asparagus densiflorus	Sprengeri, Myres asparagus, Sprenger asparagus
Astilbe x arendsii	False spirea
Atriplex sp.	Saltbrush
Aucuba japonica	Aucuba
Aucuba japonica variegata	
Berberis mentorensis	Mentor barberry
Berberis thunbergii	Crimson pygmy
Bougainvillea sp.	Raspberry ice
Buxus microphylla koreana	Korean boxwood
Buxus microphylla var. japonica	Japanese boxwood
Buxus sempervirens	Welleri, Common boxwood
Caesalpinia cacalaco	
Caesalpinia gilliesii	Bird of paradise
Calendula sp.	Marigold
Callistemon lanceolatus	Bottle-bush
Calluna vulgaris	Scotch heather
Camellia japonica	Camellia
Camellia sasanqua	Sansanqua camellia
Campanula carpatica	Bellflower
Carissa grandiflora	Natal plum
Carissa tuttlei	
Carnegiea gigantea	Saguaro cactus
Cassia artemisioides	Feathery cassia
Cassia didymobotrya	African cassia
Cassia sturtii	

Centaurea cineraria  
 Cerastium tomentosum  
 Ceratonia siliqua  
 Cercis canadensis  
 Chamaecyparis obtusa  
 Chamaecyparis lawsoniana  
 Chamaecyparis pisifera  
 Chamaerops excelsa  
 Chamaerops humilis  
 Chrysalidocarpus lutescens (Small)  
 Chrysanthemum x superbum  
 Cissus rhombifolia  
 Cistus hybridus  
 Citrus aurantium  
 Citrus paradisi  
 Clerodendrum speciosum  
 Cleystera spp.  
 Clivia miniata  
 Cocos plumosa  
 Codiaeum variegatum  
 Coffea arabica  
 Coleus x hybridus  
 Convolvulus oneorum  
 Coprosma baueri  
 Coprosma repens  
 Cordyline terminalis  
 Coreopsis verticillata  
 Cornus florida  
 Cornus mas  
 Cornus sericea  
 Cotoneaster apiculata  
 Cotoneaster dammeri  
 Cotoneaster divaricatus  
 Cotoneaster microphyllus  
 Cotoneaster repens  
 Cotoneaster salicifolius franch  
 Crossandra nilotica  
 Cupressus sempervirens  
 Cycus revoluta  
 Deutzia gracilis  
 Dianthus barbatus  
 Dieffenbachia amoena  
 Diervilla lonicera  
 Dodonea viscosa purpurea  
 Echinocactus sp.  
 Elaeagnus angustifolia  
 Encelia farinosa  
 Erythrina fusca  
 Escallonia fradessii  
 Escallonia rubra  
 Eucalyptus microtheca  
 Eucalyptus polyanthemos  
 Eucalyptus rostrata  
 Eucalyptus spathulata  
 Eucalytus rudis  
 Eugenia myrtifolia  
 Euonymus alata  
 Euonymus fortunei  
 Euonymus japonica  
 Euonymus kiautschovica

Dusty miller  
 Snow in summer  
 Carob tree  
 Red bud  
 Hinoki falsecypress  
 Lawson cypress  
 Sawara Cypress  
 Windmill palm  
 Mediterranean fan palm  
 Golden fruited palm  
 Shasta daisy  
 Ellen Danica, grape ivy  
 Rock rose  
 Sour orange  
 Grapefruit  
 Pagoda flower  
 Cleystera  
 Kaffir lily  
 Queen palm  
 Croton  
 Coffee  
 Coleus  
 Bush morningglory  
 Mirror plant  
 Variegated mirror plant  
 Ti  
 Threadleaf coreopsis  
 Flowering dogwood  
 Cornelian cherry dogwood  
 Red twig dogwood, Flaviramea  
  
 Coral beauty, Royal beauty  
 Spreading cotoneaster  
  
 Cotoneaster  
 Willowleaf cotoneaster  
 Crossandra  
 Italian cypress  
 Sago palm  
 Slender deutzia  
 Sweet William  
 Giant dumbcane  
 Bush honeysuckle  
 Purple hopseed bush  
 Hedgehog cactus  
 Russian olive  
 Brittle bush  
 Fastigiata, Swamp immortella  
  
 Gum-barked coolibah  
 Red box gum  
 Red gum  
 Narrow-leaf gimlet  
 Desert gum  
 Brush cherry  
 Siebold  
  
 Silver King  
 Spreading Euonymus

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Euphorbia lactea  
Euryops pectinatus  
Fatshedera lizei  
Ferocactus sp.  
Ficus benjamina  
Ficus elastica decora  
Ficus macrocarpa nitiida  
Ficus nitida  
Ficus repens  
Forsythia intermedia  
Forsythia sp.  
Forsythia suspensa  
Forsythia x intermedia  
Fouquieria splendens  
Fragaria chiloensis  
Fraxinus velutina  
Gardenia jasminoides  
Gardenia taitensis  
Gazania splendens  
Gazania uniflora leucolaena  
Geijera parviflora  
Gelsemium sempervirens  
Geranium pratense  
Gladiolus x hortulanus  
Gleditsia triacanthos var. inermis  
Graptophyllum pictum  
Grevillea robusta  
Grevillea rosmarinifolia  
Hedera canariensis  
Hedera helix  
Hedera helix hahnii  
Hemerocallis hybrids  
Hemigraphis sp.  
Hesperaloe parviflora  
Hibiscus rose-sinensis  
Hibiscus syriacus  
Hosta lancifolia  
Hydrangea paniculata  
Hydrangea quercifolia  
Iberis sempervirens  
Ilex cornuta  
Ilex crenata  
Ilex glabra  
Ilex opaca  
Ilex vomitoria  
Ilex x meserveae  
Ilex x attenuata  
Iris sp.  
Isotoma sp.  
Ixora coccinea  
Jacaranda acutifolia  
Jacobinia ghiesbreghtiana  
Juniperus horizontalis  
Juniperus scopulorum  
Juniperus chinensis

Juniperus conferta  
Juniperus horizontalis  
Juniperus procumbens

Candelabra plant

Fatshedera  
Barrel cactus  
Exotica weeping fig  
Rubber tree  
Indian laurel  
Indian laurel  
Creeping fig

Weeping forsythia

Ocotillo  
Ornamental strawberry  
Arizona ash  
Gardenia, dwarf  
Tahitian gardenia  
Gazania gold rush

Australia willow  
Carolina jessamine  
Cranesbill  
Debbie, Jennie, Manogany, Stargazer  
Honey locust/shade master  
Caricature plant  
Silk oak  
Spider flower  
Algerian ivy  
English ivy  
Hahn's Ivy  
Daylily  
Waffle plant/Metallic plant

Chinese hibiscus  
Althea  
Variegated hosta  
Fancicle hydrangea  
Oakleaf hydrangea  
Candytuff  
Dwarf burford holly  
Japanese holly  
Compact inkberry  
American holly  
Dwarf yaupon/Tall yaupon  
Meserve Holly  
Foster's holly

Blue star creeper  
Ixora  
Jacaranda

Admiral  
Cologreen  
Hetzi, San Jose, Torulosa, Gold tip, Nicks compact  
juniper, Keteleeri, Hollywood, Blue Point, Blue vase  
juniper, Parsoni, Gold coast juniper, Sargent juniper  
Shore juniper  
Plumosa

Juniperus sabina  
 Juniperus scopulorum  
 Juniperus virginiana  
 Justicia spicigera  
 Kochia scoparia trychophylla  
 Lagerstroemia indica  
 Lantana camara  
 Lantana sellowiana  
 Leptospermum laevigatum  
 Leucophyllum frutescens  
 Liatris spicata  
 Ligustrum amurense  
 Ligustrum ovalifolium  
 Ligustrum texanum  
 Ligustrum x Vicari  
 Liquidambar styraciflua  
 Liriope spicata  
 Liriope muscari  
 Livistona chinensis  
 Lonicera x morrowii  
 Lonicera xylostium  
 Lysiloma thornberii  
 Lysimachia nummularia  
 Magnolia sp.  
 Magnolia stellata  
 Mahonia aquifolium  
 Malus floribunda  
 Mesembryanthemum drosanhemum hispidum  
 Mesembryanthemum lampranthus  
 Mesembryanthemum lampranthus spectabilis  
 Metrosideros excelsus  
 Musa maurelli  
 Myoporum parvifolium  
 Myrica cerifera  
 Nephrolepis exaltata  
 Nerium oleander  
 Odocanthus sp.  
 Olea europaea  
 Olneya tesota  
 Opuntia Cholla  
 Osmanthus fragrans  
 Osteospermum fruticosum alba  
 Pachysandra terminalis  
 Parienonia aculeata  
 Passiflora pfordtii  
 Pelargonium domesticum  
 Pelargonium peltatum  
 Pennisetum setaceum  
 Peperomia scandens  
 Petunia sp.  
 Philadelphus coronarius  
 Philodendron oxycardium  
 Philodendron selloum  
 Phoenix canariensis  
 Phoenix roebelenii  
 Photinia x fraseri  
 Phyllostachys aurea  
 Physocarpus fruticosa  
 Physocarpus opulifolius  
 Picea abies  
 Pepin, Skandia, Buffalo  
 Wichita blue  
 Red cedar  
 Firecracker, Mexican indigo  
 Compact burningbush  
 Crepe myrtle  
 Bush lantana  
 Purple lantana (trailing)  
 Texas sage  
 Gay feather  
 Amur River  
 Privet/california  
 Texas privet  
 Vicari  
 American sweetgum  
 Liriope  
 Green liriope/Variiegated liriope  
 Chinese fan palm  
 Morrow honeysuckle  
 Emerald mound  
 Desert fern tree  
 Moneywort/Wandering Sally  
 Oregon Grapeholly  
 Star Magnolia  
 Mahonia  
 Showy crabapple  
 Rose ice plant  
 Purple trailing ice plant  
 Red spike ice plant  
 New Zealand christmas tree  
 Ethiopia banana  
 Prostrate myoporum  
 Wax myrtle  
 Sword fern  
 Pink, variegated, petite oleander  
 Olive tree  
 Ironwood  
 Cholla cactus  
 Osmanthus, tea olive  
 White african daisy  
 Japanese pachysandra  
 Green palo verde  
 Passion vine  
 Geranium  
 Ivy geranium  
 Red fountain grass  
 Radiator plant  
 Aurea  
 "Micans" velvetleaf philodendron  
 Canary Island date palm  
 Pygmy date palm  
 Photinia  
 Golden bamboo  
 Gold drop, Jackmanni, Abbotswood  
 Dwarf Ninebark, Nanus  
 Norway Spruce

Picea glauca  
 Picea omorika  
 Picea pungens  
 Pieris japonica  
 Pilea nummularifolia  
 Pinus canariensis  
 Pinus mugo  
 Pinus nigra  
 Pinus ponderosa  
 Pinus resinosa  
 Pinus strobiformus  
 Pinus strobus  
 Pinus sylvestris  
 Pittosporum Tobira  
 Pittosporum phillyraeoides  
 Plumbago capensis  
 Podocarpus gracilior  
 Podocarpus macrophylla  
 Polygonum capitatum  
 Polyscias fruticosa  
 Polystichum capense  
 Potentilla fructosa  
 Prosopis chilensis  
 Prunus triloba  
 Prunus caroliniana compacta  
 Pseuderanthemum atropurpureum  
 Pseudotsuga menziesii  
 Pyracanta koidzumii  
 Pyracantha angustifolia  
 Pyracantha coccinea  
 Pyracantha graberi  
 Pyracantha koidzumii x coccinea  
 Pyrus calleryana  
 Quercus virginiana  
 Raphiolepis indica  
 Raphiolepis umbellata  
 Rhamnus frangula  
 Rhododendron "Gable Hybrid"  
 Rhododendron catawbiense

Rhododendron formosa  
 Rhododendron obtusum  
 Rhododendron sp.

Rhododendron yedoense  
 Rheullia californica  
 Rhus lancea  
 Rosa Banksiae  
 Rosa hybrida  
 Rosa sp.  
 Rosmarinus officinalis prostratus  
 Salix alba

Dwarf Alberta, Black Hills, Densata  
 Serbian spruce  
 Blue spruce  
 Lily-of-the-valley bush  
 Creeping Charlie  
 Canary Island Pine  
 Dwarf Swiss mountain pine  
 Austrian pine/Black pine  
 Wester/Ponderosa pine  
 Red pine  
 Mexican border pine  
 Eastern white pine  
 Scotch pine  
 Wheelers dwarf, variegated  
 Desert willow  
 Cane plumbago  
 African fern pine  
 Yew pine  
 Pink clover  
 Parsley panax

Gold drop, Primrose beauty  
 Chilean mesquite  
 Flowering almond  
 Carolina cherry  
 Purple false eranthemum  
 Douglas fir  
 Lodense pyracantha  
 Variegated firethorn  
 Scarlet firethorn, Lalandei

Mojave firethorn  
 Bradford pear  
 Oak, live  
 Pink lady  
 Yedda/Indian hawthorn  
 Tallhedge buckthorn  
 Elizabeth Gable, Purple splendor, Rose greely  
 Lees dark purple, Roseum elegans, Chionoides  
 rhododendron, White cattawba, Roseum elegans,  
 Purple elegans, Roseum superbum, English roseum

Amoenum, Coral bells  
 Blaauw's pink, Rutherfordiana Constance, White  
 cascade, Prize, Kluis sensation, Sweetheart, Kaempo,  
 Royalty, Hahn red, Red wing, Gumpo white, Salmon  
 Spray, Road runner, Tradition, Gloria, Gumpo pink,  
 Greeting, Pink pearl, Pericat, Tabor, Mother's Day,  
 Snow, Masasoit, Red ruffle, Delaware Valley white,  
 Purple Gem, H.H. Hume, Stewartstonian, Hino red,  
 Rosebud, Fashion, Herbert, Gibraltar, Gerard's rose,  
 Boule de neige, President Lincoln  
 Korean azalea/Poukhanense

African sumar standard  
 Banksia  
 Hybrid tea rose  
 Rose  
 Rosemary dwarf  
 Weeping willow

Salix matsudana  
 Salvia greggii  
 Sansevieria sp.  
 Sansevieria trifasciata  
 Santolina chamaecyparissus  
 Schefflera arboricola  
 Schinus molle  
 Schinus terebinthifolius  
 Sedum brevifolium  
 Sedum guatemalense  
 Sedum spectabile  
 Sedum x rubrotinctum  
 Sempervivum tectorum  
 Simmondsia chinensis  
 Spiraea nipponica  
 Spiraea x billiardii  
 Spiraea x bumalda  
 Statice sinuata  
 Stenocarpus sinuatus  
 Strelitzia nicolai  
 Strelitzia reginae  
 Syringa meyeri  
 Syringa patula  
 Syringa villosa  
 Syzgium paniculatum  
 Tagetes sp.  
 Taxus cuspidata  
 Taxus x media  
 Tecoma stans angustate  
 Tecomania capensis  
 Ternstroemia gymnanthera  
 Thevetia peruviana  
 Thuja occidentalis

Thuja orientalis  
 Trachelospermum asiaticum  
 Trachelospermum jasminoides  
 Trifolium fragiferum  
 Tsuga canadensis  
 Viburnum dentatum  
 Viburnum japonicum  
 Viburnum opulus  
 Viburnum odoratissimum  
 Viburnum plicatum  
 Viburnum suspensum  
 Viburnum trilobum  
 Viburnum x juddii  
 Viburnum x rhytidophylloides  
 Vicia sp.  
 Vinca major  
 Vinca minor  
 Washingtonia robusta  
 Weigela florida  
 Xylosma senticosa  
 Yucca filamentosa  
 Yucca gloriosa  
 Yucca pendula  
 Zinnia sp.

Tortuosa corkscrew willow

Moon Glow  
 Hahnii/Mother-in-law's tongue  
 Lavender cotton  
 Manila Ripple  
 California pepper tree  
 Brazilian pepper tree  
 Green stone crop  
 Brown beam  
 Sedum

Hen and chickens  
 Jojoba  
 Snowmound spirea  
 Billiard spirea  
 Froebelii, Crispa spirea, Gold flame, Anthony Waterer  
 Annual statice  
 Firewheel tree  
 Giant bird of paradise  
 Bird of paradise  
 Palibin  
 Korean lilac  
 James McFarlane lilac  
 Australian bush cherry  
 Marigold  
 Japanese yew  
 Thayeri yew, Hicks yew, Dense yew  
 Yellow bells  
 Cape honeysuckle  
 Clevera  
 Yellow oleander tree  
 White cedar, Emerald green, Woodwardii, Techny,  
 Pyramidalis, Globosa, Techny american arborvitae  
 Berkman's  
 Asiatic jasmine  
 Star jasmine  
 O'Connors legume  
 Eastern hemlock  
 Arrowwood viburnum  
 Viburnum/japanese snowball  
 Nanum  
 Viburnum  
 Doublefile viburnum/tomentosum  
 Sandankwa viburnum  
 Compact cranberrybush viburnum  
 Judd  
 Viburnum/willowwood  
 Crown Vetch  
 Periwinkle  
 Myrtle, Dwarf periwinkle  
 Mexican fan palm  
 Newport red, Pink Weigelia

Yucca  
 Spanish dagger  
 Weeping dagger

TABLE II

--DIRECTED APPLICATIONS to avoid ornamental foliage are recommended for 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
Abies fraseri	Fraser Fir
Acer rubrum	Maple/red
Ajuga variegata	Bugle weeds
Ajuga reptans	Variiegated ajuga
Aquilegia hybrida	Columbine
Arbutus unedo	Strawberry tree
Bignonia twsediana	Cats claw, Yellow trumpet
Callistemon viminalis	Weeping bottle-brush
Ceanothus griseus	
Cupressocyparis leylandii	Leyland cypress
Dracaena fragans	Massangeana, dracaena
Dracaena marginata	Tricolor dracaena
Eucalyptus citriodora	Lemon-scented gum
Feijoa sellowiana	Pineapple guava
Gamolepis chrysanthemoides	
Gazania ringens	
Gladiolus x hortulanus	Gallery
Grewia caffra	Lavender star plant
Herniaria glabra	Green carpet
Juniperus chinensis	Pfitzerana, Nana, Spearmint, Old Gold, Prostrata, Robusta, Maney
Juniperus conferta	Blue Pacific
Juniperus horizontalis	Wiltonii, Hughes, Webberi, Variagata, Blue rug, Youngtown Compacta San Jose
Juniperus japonica	Tamariseifolia, Arcadia, Scandia, Broadmoor
Juniperus sabina	Welchii, Pathfinder
Juniperus scopulorum	Sky Rocket, Grey owl
Juniperus virginiana	White lantana
Lantana monteuidensis	Fetterbush
Leucothoe axillaris	Japanese privet
Ligustrum japonicum	Japanese honeysuckle
Lonicera japonica	Heavenly bamboo
Nandina domestica	Oleander
Nerium oleander standard	Mondo grass
Ophiopogon japonicum	Prickly pear cactus
Opuntia sp.	Green fountain grass
Pennisetum setaceum	
Philodendron sp.	Temple tree
Plumeria acuminata	Maki
Podocarpus macrophyllus	Spring cinquefoil
Poterilla verna	Indica
Rhododendron indicum	Kurume, Eureka
Rhododendron obtusum	P.J.M.
Rhododendron sp.	Oyster plant
Rhoeo spathacea	Ruellia
Ruellia ciliosa	Willow
Salix caroliniana	Vanhoutte spirea
Spiraea x vanhoutteii	Lilac
Syringa chinensis	Chinese snowball
Viburnum macrocephalum	



TABLE III

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

TABLE IV

- DIRECTED APPLICATIONS To avoid ornamental foliage are recommended for 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
Acalypha godseffiana hertophylla	
Alsophia australis	Australia tree fern
Betula nigra	Birch/River
Catharanthus roseus	Madagascar periwinkle
Chamaecyparis pisifera	Boulevard falsecypress
Chlorophytum comosum	Spider plant
Cortaderia selloana	Pampas grass
Euonymus alata	Compacta
Juniperus chinensis	Sea Green
Juniperus horizontalis	Blue Chip, Prince of Wales, Bar Harbor
Juniperus scopulorum	Blue Haven
Kalanchoe fedtschenkoi	Lavender-scallops
Kalanchoe tubiflora	Chandelier plant
Physocarpus fruticosus	Katherine Dykes
Rhododendron obtusum	Hinocrimson
Setcreasea purpurea	Purple heart
Zebrina pendula	Wandering jew

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The manufacturer warrants only that the chemical composition of this product conforms to the ingredient statement given on the label, and that the product is reasonably suited for the labeled use when applied according to the Directions for Use.

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