

[CLICK HERE TO JUMP TO USE DIRECTIONS](#)



ORNAMEC[®]

170 GRASS HERBICIDE

Kills unwanted grasses in and around ornamental plants.

Spray ornamentals "over-the-top"

ACTIVE INGREDIENT:

Fluazifop-P-butyl: Butyl(*R*)-2-[4-[[5-(trifluoromethyl)-2-pyridinyl]oxy]phenoxy]propanoate 1.70%

OTHER INGREDIENTS: 98.30%
TOTAL 100.00%

THIS PRODUCT CONTAINS:

0.125 lb. (+) isomer (fluazifop-P-butyl) per gallon.
Contains petroleum distillates.

ORNAMEC[®] is a registered trademark of PBI/Gordon Corporation.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

SHAKE WELL BEFORE USING



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

PRECAUTIONARY STATEMENTS

Hazards to Humans & Domestic Animals

CAUTION: Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wear long-sleeved shirt, long pants, shoes, socks, and chemical-resistant gloves made of barrier laminate or viton. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

| | |
|---|---|
| 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. |
| <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 distillates – vomiting may cause aspiration pneumonia.</p> | |

User Safety Requirements

Follow manufacturer's instructions for cleaning/maintaining Personal Protective Equipment (PPE). If no such instructions for washables exist, 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.
- Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

This product is toxic to fish. Do not apply directly to water, or 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.

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.

Where To Use

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes and being grown in ornamental gardens or parks, or on golf courses, or lawns and grounds.

GENERAL INFORMATION FOR ORNAMENTALS, TREES, SHRUBS, AND GROUNDCOVERS: ORNAMEC[®] 170 GRASS HERBICIDE is a selective postemergence herbicide for control of annual and perennial grass weeds. ORNAMEC 170 GRASS HERBICIDE does not control broadleaf weeds or sedges (nutgrass).

Control Symptoms: ORNAMEC 170 GRASS HERBICIDE 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 170 GRASS HERBICIDE when applied as directed 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.

When To Use

APPLICATION DIRECTIONS: ORNAMEC 170 GRASS HERBICIDE can be used to control grass weeds in many newly transplanted and established ornamentals, trees, shrubs and groundcovers. Apply to actively growing grass weeds before they exceed the recommended growth stages shown below.

Do not apply ORNAMEC 170 GRASS HERBICIDE if rainfall is expected within 1 hour.

"Over-the-top" applications are recommended for the ornamentals listed in Table 1. "Over-the-top" applications are defined as spray patterns delivered to the upper portions of the established ornamentals and target weeds. Use sufficient spray volumes to ensure a uniform distribution and complete spray coverage of the target weeds.

Directed spray applications are recommended for the ornamentals listed in Tables 2, 3, and 4. Directed spray applications are defined as spray patterns aimed or directed toward the lower portion of the established ornamentals, and this method of application will minimize the phytotoxicity of the desired species. 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 Tables 2, 3, and 4. However, there is the possibility of damage in the range listed for each table when applied at label rates. Refer to Tables 2, 3, and 4 for the list of ornamental species appropriate for directed spray applications.

DO NOT APPLY TO ORNAMENTALS THAT MAY BE HARVESTED FOR FOOD WITHIN ONE YEAR AFTER APPLICATION.

NOTICE TO BUYER AND USER: It is impossible to test every species and variety or cultivar of ornamental plants under all conditions. Plant tolerance of pesticides vary as conditions vary. Plant tolerance of ORNAMEC 170 GRASS HERBICIDE 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 ORNAMEC 170 GRASS HERBICIDE can be used on plants not specified on this label. The user should determine if ORNAMEC 170 GRASS HERBICIDE can be used prior to use.

SPOT TREATMENTS FOR ORNAMENTALS, TREES, SHRUBS AND GROUNDCOVERS: Mix ORNAMEC 170 GRASS HERBICIDE with water according to the amounts shown in the following chart. Spray to obtain thorough coverage, but do not spray to runoff. Retreat if necessary.

| To Make Volume | Add ORNAMEC 170 GRASS HERBICIDE |
|----------------|---------------------------------|
| 24 fl. oz. | 3.5 tablespoons |
| 32 fl. oz. | 2.5 fl. oz. (5 tablespoons) |
| 1 gallon | 10 fl. oz. (18 tablespoons) |
| 10 gallons | 104 fl. oz. |
| 25 gallons | 2 gallons |
| 50 gallons | 4 gallons |

BROADCAST APPLICATION FOR ORNAMENTALS, TREES, SHRUBS AND GROUNDCOVERS:

ANNUAL AND PERENNIAL GRASS CONTROL DIRECTIONS

- For annual grass species, use 6 to 9 fluid ounces of ORNAMEC 170 GRASS HERBICIDE per 1000 square feet.
- For perennial grass species, use 9 fluid ounces of ORNAMEC 170 GRASS HERBICIDE per 1000 square feet per application. Three applications will be needed.
- The maximum amount of fluzifop-R-butyl per treated area per season is 1.1 pounds active ingredient per acre per season (27 fl. oz. per 1000 sq. ft. per season).
- Spray to obtain thorough coverage of grass foliage, but not to runoff. Repeat treatments may be necessary to provide full season control.
- Use standard hollow cone or flat fan nozzles.
- Apply ORNAMEC 170 GRASS HERBICIDE herbicide to actively growing grasses before they exceed the recommended growth stages shown below.
- Do not apply ORNAMEC 170 GRASS HERBICIDE 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 170 GRASS HERBICIDE herbicide when the first grass species in a mixed grass weed population reaches the recommended growth stage for treatment.

| ANNUALS | |
|--|--|
| GRASS SPECIES | GROWTH STAGE |
| Barnyardgrass (<i>Echinochloa crusgalli</i>) 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>) | 2 to 8 inches tall, before tillering and/or heading. |

| 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* (<i>Panicum repens</i>) | 3 to 6 inches tall (1st application) 2 to 3 feet tall (subsequent application) |
| Wirestem muhly (<i>Muhlenbergia frondosa</i>) | 4 to 12 inches tall before seedhead initiation |

*Use 9 fluid ounces of product per 1,000 square feet per application. Three applications will be needed.

TABLE 1. "Over-The-Top" applications may be applied to the following ornamentals:

| Common Name/Variety | Scientific Name |
|--------------------------|----------------------------------|
| Abbotswood | <i>Physocarpus fruticosus</i> |
| Acacia ongerops | <i>Acacia redolens</i> |
| Admiral | <i>Juniperus horizontalis</i> |
| African cassia | <i>Cassia didymobotrya</i> |
| African fern pine | <i>Podocarpus gracilior</i> |
| African sumac standard | <i>Rhus lancea</i> |
| Algerian ivy | <i>Hedera canariensis</i> |
| Aloe | <i>Aloe vera</i> |
| Aloe | <i>Aloe zanzibarica</i> |
| Althea | <i>Hibiscus syriacus</i> |
| Alyssum | <i>Alyssum sp.</i> |
| American holly | <i>Ilex opaca</i> |
| American sweetgum | <i>Liquidambar styraciflua</i> |
| Amoenum | <i>Rhododendron obtusum</i> |
| Amur river | <i>Ligustrum amurense</i> |
| Annual statice | <i>Statice sinuate</i> |
| Anthony Waterer | <i>Spiraea x bumalda</i> |
| Arizona ash | <i>Fraxinus velutina</i> |
| Asiatic jasmine | <i>Trachelospermum asiaticum</i> |
| Aucuba | <i>Aucuba japonica</i> |
| Aurea | <i>Philadelphus coronarius</i> |
| Australian bush cherry | <i>Syzygium paniculatum</i> |
| Australian tea tree | <i>Leptospermum laevigatum</i> |
| Australia willow | <i>Geijera parviflora</i> |
| Austrian pine/Black pine | <i>Pinus nigra</i> |
| Banksia | <i>Rosa Banksiae</i> |
| Barbados aloe | <i>Aloe barbadensis</i> |
| Barrel cactus | <i>Ferocactus sp.</i> |
| Bellflower | <i>Campanula carpatica</i> |
| Berkman's | <i>Thuja orientalis</i> |
| Billiard spirea | <i>Spiraea x billiardii</i> |
| Bird of paradise | <i>Caesalpinia gilliesii</i> |
| Bird of paradise | <i>Strelitzia reginae</i> |
| Bittle brush | <i>Encelia farinosa</i> |
| Blaauw's pink | <i>Rhododendron sp.</i> |
| Black hills | <i>Picea glauca</i> |
| Blue point | <i>Juniperus chinensis</i> |
| Blue spruce | <i>Picea pungens</i> |
| Blue star creeper | <i>Isotoma sp.</i> |
| Blue vase juniper | <i>Juniperus chinensis</i> |
| Bottle-brush | <i>Callistemon lanceolatus</i> |
| Boule de neige | <i>Rhododendron sp.</i> |
| Bradford pear | <i>Pyrus calleryana</i> |
| Brazilian peppertree | <i>Schinus terebinthifolius</i> |
| Brazilian Snapdragon | <i>Otocanthus sp.</i> |
| Brown beam | <i>Sedum guatemalense</i> |
| Brush cherry | <i>Eugenia myrtifolia</i> |
| Buffalo juniper | <i>Juniperus Sabina</i> |
| Bush honeysuckle | <i>Diervilla lonicera</i> |
| Bush lantana | <i>Lantana camara</i> |
| Bush morningglory | <i>Convolvulus oneorum</i> |
| California pepper tree | <i>Schinus molle</i> |
| Camellia | <i>Camellia japonica</i> |
| Canary Island date palm | <i>Phoenix canariensis</i> |
| Canary Island pine | <i>Pinus canariensis</i> |
| Candelabra plant | <i>Euphorbia lacteal</i> |
| Candytuff | <i>Iberis sempervirens</i> |

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TABLE 1. (cont.)

| Common Name/Variety | Scientific Name |
|---------------------------------------|------------------------------|
| Cane plumbago | Plumbago capensis |
| Cape honeysuckle | Tecomaria capensis |
| Capweed | Arctotheca calendula |
| Caricature plant | Graptophyllum pictum |
| Carob tree | Cerantonia siliqua |
| Carolina cherry | Prunus caroliniana compacta |
| Carolina jessamine | Gelsemium sempervirens |
| Century plant | Agave Americana |
| Chilean mesquite | Prosopis chilensis |
| Chinese fan palm | Livistona chinensis |
| Chinese hibiscus | Hibiscus rose-sinensis |
| Chinese juniper | Juniperus chinensis |
| Chionoides rhododendron | Rhododendron catawbiense |
| Chives | Allium schoenopresum |
| Cholla cactus | Opuntia Cholla |
| Cleyera | Cleyera spp. |
| Cleyera | Ternstroemia gymnanthera |
| Coffee | Coffea Arabica |
| Coleus | Coleus x hybridus |
| Cologreen | Juniperus scopulorum |
| Common boxwood | Buxus sempervirens |
| Common yarrow | Achillea millefolium |
| Compact burningbush | Kochia scoparia trychophylla |
| Compact cranberrybush viburnum | Viburnum trilobum |
| Compact inkberry | Ilex glabra |
| Concolor fir | Abies concolor |
| Coral beauty | Cotoneaster dammeri |
| Coral bells | Rhododendron obtusum |
| Cornelian cherry dogwood | Cornus mas |
| Coronation gold yarrow | Achillea filipendulina |
| Cotoneaster | Cotoneaster repens |
| Cotoneaster | Cotoneaster apiculata |
| Cotoneaster | Cotoneaster microphyllus |
| Cranesbill | Geranium pratense |
| Creeping Charlie | Pilea nummulariifolia |
| Creeping fig | Ficus repens |
| Crepe myrtle | Lagerstroemia indica |
| Crimson pygmy | Berberis thunbergii |
| Crispa spirea | Spiraea x bumalda |
| Crossandra | Crossandra nilotica |
| Croton | Codiaeum variegatum |
| Crown vetch | Vicia sp. |
| Daylily | Hemerocallis hybrids |
| Debbie, Jennie, Mahogany, Stargaze | Gladiolus x hortulanus |
| Delaware Valley white | Rhododendron sp. |
| Densata | Picea glauca |
| Dense yew | Taxus x media |
| Desert fern tree | Lysiloma thornberii |
| Desert gum | Eucalyptus rudis |
| Desert willow | Pittosporum phillyraeoides |
| Doublefile viburnum/tomentosum | Viburnum plicatum |
| Douglas fir | Pseudotsuga menziesii |
| Dusty miller | Centaurea cineraria |
| Dwarf Alberta | Picea glauca |
| Dwarf burford holly | Ilex cornuta |
| Dwarf Ninebark, Nanus | Physocarpus opulifolius |
| Dwarf Swiss mountain pine | Pinus mugo |
| Dwarf yaupon/Tall yaupon | Ilex vomitoria |
| Eastern hemlock | Tsuga Canadensis |
| Eastern white pine | Pinus strobes |
| Elizabeth Gable | Rhododendron "Gable Hybrid" |
| Ellen Danica, grape ivy | Cissus rhombifolia |
| Emerald green | Thuja occidentalis |
| Emerald mound | Lonicera xylosteum |
| English ivy | Hedera helix |
| English roseum | Rhododendron catawbiense |
| Escallonias | Escallonia rubra |
| Escallonias | Escallonia fradessii |
| Ethiopia banana | Musa maurelli |
| Euonymus | Euonymus fortunei |
| Exotica weeping fig | Ficus benjamina |
| False spirea | Astilbe x arendsii |
| Fashion | Rhododendron sp. |
| Fastadiata | Erythrina fusca |
| Fatshedera | Fatshedera lizei |

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TABLE 1. (cont.)

| Common Name/Variety | Scientific Name |
|------------------------------------|---------------------------------------|
| Feathery cassia | Cassia artemisioides |
| Fernleaf yarrow | Achillea filipendulina |
| Firecracker | Justicia spicigera |
| Firewheel tree | Stenocarpus sinuatus |
| Flaviramea | Cornus sericea |
| Flowering almond | Prunus triloba |
| Flowering dogwood | Cornus florida |
| Fosteri holly | Ilex x attenuate |
| Forsythia | Forsythia x intermedia |
| Forsythia | Forsythia sp. |
| Forsythia | Forsythia intermedia |
| Fransher evergreen | Aglanoma commutatum |
| Froebelii | Spiraea x bumalda |
| Gardenia, dwarf | Gardenia jasminoides |
| Gay feather | Liatris spicata |
| Gazania gold rush | Gazania splendens |
| Geranium | Pelargonium domesticum |
| Gerard's rose | Rhododendron sp. |
| Giant bird of paradise | Strelitzia nicolai |
| Giant dumbcane | Dieffenbachia amoena |
| Giant/King protea | Protea cynaroides |
| Gibraltar | Rhododendron sp. |
| Globosa | Thuja occidentalis |
| Gloria | Rhododendron sp. |
| Glossy abelia | Abelia grandiflora |
| Golden bamboo | Phyllostachys aurea |
| Golden fruited palm | Chrysalidocarpus lutescens (small) |
| Gold coast juniper | Juniperus chinensis |
| Gold drop | Physocarpus fruticososa |
| Gold drop, Primrose beauty | Potentilla fruticososa |
| Gold flame | Spiraea x bumalda |
| Gold tip | Juniperus chinensis |
| Grapefruit | Citrus paradise |
| Grayleaved euryops | Euryops pectinatus |
| Green liriopoe/Variegated liriopoe | Liriopoe muscari |
| Green palo verde | Parkinsonia aculeata |
| Green stone crop | Sedum brevifolium |
| Greeting | Rhododendron sp. |
| Gumpo pink | Rhododendron sp. |
| Gumpo white | Rhododendron sp. |
| Gum-barked coolibah | Eucalyptus microtheca |
| Hahn red | Rhododendron sp. |
| Hahnii/Mother-in-law's tongue | Sansevieria Trifasciata |
| Hahn's ivy | Hedera helix hahnii |
| Hawthorn, Yedda/Indian | Raphiolepis umbellata |
| Hedgehog cactus | Echniocactus sp. |
| Hen and chickens | Sempervivum tectorum |
| Herbert | Rhododendron sp. |
| Hicks yew | Taxus x media |
| Hinoki falsecypress | Chamaecyparis obtusa |
| Hino red | Rhododendron sp. |
| Hollyhock | Alcea rosea |
| Hollywood | Juniperus chinensis |
| Honey locust/Shade master | Gleditsia triacanthos var. inermis |
| Hybrid tea rose | Rosa hybrida |
| H.H. Hume | Rhododendron sp. |
| Indian laurel | Ficus macrocarpa nitiida |
| Indian laurel | Ficus nitida |
| Iris | Iris sp. |
| Ironwood | Olivea tesota |
| Italian cypress | Cupressus sempervirens |
| Ivy geranium | Pelargonium peltatum |
| Ixora | Ixora coccinea |
| Jacaranda | Jacaranda acutifolia |
| Jackmanni | Physocarpus fruticososa |
| James McFarlane Lilac | Syringa villosa |
| Japanese boxwood | Buxus microphylla var. japonica |
| Japanese holly | Ilex crenata |
| Japanese laurel | Aucuba japonica variegata |
| Japanese pachysandra | Pachysandra terminalis |
| Japanese yew | Taxus cuspidate |
| Japgarden juniper | Juniperus procumbens |
| Jim wheat acacia | Acacia schafnerii |
| Jobjoba | Simmiondsia chinensis |
| Judd | Viburnum x juddii |

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TABLE 1. (cont.)

| Common Name/Variety | Scientific Name |
|-----------------------------------|---------------------------------|
| Juniper | Juniperus chinensis |
| Kaempe | Rhododendron sp. |
| Kaffir lily | Clivia miniata |
| Keteleeri | Juniperus chinensis |
| Kluis sensation | Rhododendron sp. |
| Korean azalea/Poukhanense | Rhododendron yedoense |
| Korean boxwood | Buxus microphylla var. koreana |
| Korean lilac | Syringa patula |
| Lavender cotton | Santolina chamaecyparissus |
| Lawson cypress | Chamaecyparis lawsoniana |
| Lees dark purple | Rhododendron catawbiense |
| Lily-of-the-valley bush | Pieris japonica |
| Liriope | Liriope spicata |
| Lodense pyracantha | Pyracantha koidzumii |
| Mahonia | Mahonia aquifolium |
| Manila ripple | Schefflera arboricola |
| Maple/Japanese | Acer palmatum |
| Marigold | Tagetes sp. |
| Marigold | Calendula sp. |
| Masasoit | Rhododendron sp. |
| Mediterranean fan palm | Chamaerops humilis |
| Mentor barberry | Berberis mentorensis |
| Meserve holly | Ilex x Meserveae |
| Mexican border pine | Pinus strobiformis |
| Mexican fan palm | Washingtonia robusta |
| Mexican indigo | Justicia spicigera |
| Micans velvetleaf philodendron | Philodendron oxycardium |
| Mirror plant | Coprosma baueri |
| Mojave firethorn | Pyracantha koidzumii x coccinea |
| Moneywort/Wandering Sally | Lysimachia nummularia |
| Moon glow | Sansevieria sp. |
| Morrow honeysuckle | Lonicera x morrowii |
| Mother's Day | Rhododendron sp. |
| Myres asparagus | Asparagus densiflorus |
| Nanum | Viburnum opulus |
| Narrow-leaf gimlet | Eucalyptus spathulata |
| Natal plum | Carissa grandiflora tuttlei |
| Newport red | Weigela florida |
| New Zealand Christmas tree | Metrosideros excelsus |
| Nicks compact juniper | Juniperus chinensis |
| Noble fir | Abies procera |
| Norfolk Island pine | Araucaria heterophylla |
| Norway maple | Acer platanoides |
| Norway spruce | Picea abies |
| Oakleaf hydrangea | Hydrangea quercifolia |
| Oak, live | Quercus virginiana |
| Ocotillo | Fouquieria splendens |
| Oleander-leaved protea | Protea neriifolia |
| Olive tree | Olea europaea |
| Oregon grapeholly | Magnolia sp. |
| Ornamental strawberry | Fragaria chiloensis |
| Osmanthus, tea olive | Osmanthus fragrans |
| O'Connors legume | Trifolium fragiferum |
| Pagoda flower | Clerodendrum speciosum |
| Painted evergreen | Aglanoma crispum |
| Palibin | Syringa meyeri |
| Panicle hydrangea | Hydrangea paniculata |
| Parsley panax | Polyscias fruticosa |
| Parsoni | Juniperus chinensis |
| Passion vine | Passiflora pfordtii |
| Pepin | Juniperus Sabina |
| Pericat | Rhododendron sp. |
| Periwinkle | Vinca major |
| Periwinkle, Myrtle, dwarf | Vinca minor |
| Peter Pan lily of the Nile | Agapanthus africanus |
| Petunia | Petunia sp. |
| Philodendron | Philodendron selloum |
| Photinia | Photinia x fraseri |
| Pink clover | Polygonum capitatum |
| Pink lady | Raphiolepis indica |
| Pink pearl | Rhododendron sp. |
| Pink weigelia | Weigela florida |
| Pink, variegated, petite oleander | Nerium oleander |
| Plumosa | Chamaecyparis pisifera |
| Plumosa | Juniperus horizontalis |
| Poinciana | Caesalpinia cacalaco |

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TABLE 1. (cont.)

| Common Name/Variety | Scientific Name |
|-----------------------------|--|
| President Lincoln | Rhododendron sp. |
| Privet/California | Ligustrum ovalifolium |
| Prize | Rhododendron sp. |
| Prostrate myoporum | Myoporum parvifolium |
| Protea | Protea compacta |
| Protea | Protea eximia |
| Protea | Protea repens |
| Purple elegans | Rhododendron catawbiense |
| Purple false eranthemum | Pseuderanthemum atropurpureum |
| Purple gem | Rhododendron sp. |
| Purple hopseed bush | Dodonea viscosa puplurea |
| Purple lantana (trailing) | Lantana sellowiana |
| Purple splendor | Rhododendron |
| Purple trailing ice plant | Mesembryanthemum lampranthus |
| Pussyfoot, flossflower | Ageratum sp. |
| Pygmy date palm | Phoenix roebelenii |
| Pyracantha | Pyracantha graberi |
| Pyramidalis | Thuja occidentalis |
| Queen palm | Acrocastrum romanzoffianum |
| Queen palm | Cocos plumose |
| Radiator plant | Peperomia scandens |
| Raspberry ice | Bougainvillea sp. |
| Red bearberry | Arctostaphylos uva-ursi |
| Red box gum | Eucalyptus polyanthemos |
| Red bud | Cercis Canadensis |
| Red cedar | Juniperus virginiana |
| Red fountain grass | Pennisetum setaceum |
| Red gum | Eucalyptus rostrata |
| Red pine | Pinus resinosa |
| Red ruffle | Rhododendron sp. |
| Red spike ice plant | Mesembryanthemum lampranthus spectabilis |
| Red twig dogwood | Cornus sericea |
| Red wing | Rhododendron sp. |
| Red Yucca | Hesperaloe parviflora |
| Rhododendron | Rhododendron formosa |
| Road runner | Rhododendron sp. |
| Rock rose | Cistus hybridus |
| Rose | Rosa sp. |
| Rosebud | Rhododendron sp. |
| Rosemary dwarf | Rosmarinus officinalis prostratus |
| Roseum elegans | Rhododendron catawbiense |
| Roseum superbum | Rhododendron catawbiense |
| Rose greely | Rhododendron |
| Rose ice plant | Mesembryanthemum drosanhemum hispidum |
| Royalty | Rhododendron sp. |
| Royal beauty | Cotoneaster dammeri |
| Rubber tree | Ficus elastica decora |
| Russian olive | Elaeagnus augustrifolia |
| Rutherfordiana Constance | Rhododendron sp. |
| Sago palm | Cycus revolute |
| Saguaro cactus | Carnegiea gigantea |
| Salmon spray | Rhododendron sp. |
| Saltbrush | Atriplex sp. |
| Salvia, sage | Salvia greggii |
| Sandankwa viburnum | Viburnum suspensum |
| Sandwort | Arenaria verna |
| San Jose | Juniperus chinensis |
| Sargent juniper | Juniperus chinensis |
| Sasanqua camellia | camellia sasanqua |
| Scarlet firethorn, Lalandei | Pyracantha coccinea |
| Scotch heather | Calluna vulgaris |
| Scotch pine | Pinus sylvestris |
| Sedum | Sedum spectabile |
| Sedum | Sedum x rubrotinctum |
| Senna | Cassia sturtii |
| Serbian spruce | Picea omorika |
| Shasta daisy | Chrysanthemum x superbum |
| Shield fern | Polystichum capense |
| Shiny Xylosma | Xylosma senticosa |
| Shoe-string acacia | Acacia stenophylla |
| Shore juniper | Juniperus conferta |
| Showy crabapple | Malus floribunda |

(cont. on next page)

TABLE 1. (cont.)

| Common Name/Variety | Scientific Name |
|-----------------------------|--|
| Siebold | <i>Euonymus alata</i> |
| Silk oak | <i>Grevillea robusta</i> |
| Silver King | <i>Euonymus japonica</i> |
| Silver maple | <i>Acer saccharinum</i> |
| Silver Queen evergreen | <i>Aglaonoma commutatum</i> |
| Skandia | <i>Juniperus Sabina</i> |
| Slender deutzia | <i>Deutzia gracilis</i> |
| Snow | <i>Rhododendron sp.</i> |
| Snowmound spirea | <i>Spirea nipponica</i> |
| Snow in summer | <i>Cerastium tomentosum</i> |
| Sour orange | <i>Citrus aurantium</i> |
| Spanish dagger | <i>Yucca gloriosa</i> |
| Spider flower | <i>Grevillea rosmarinifolia</i> |
| Spreading cotoneaster | <i>Cotoneaster divaricatus</i> |
| Spreading euonymus | <i>Euonymus kiautschovica</i> |
| Sprenger | <i>Asparagus densiflorus</i> |
| Sprenger asparagus | <i>Asparagus densiflorus</i> |
| Star jasmine | <i>Trachelospermum jasminoides</i> |
| Star magnolia | <i>Magnolia stellata</i> |
| Stewartsonian | <i>Rhododendron sp.</i> |
| Swamp immortal | <i>Eruthrina fusca</i> |
| Sweetheart | <i>Rhododendron sp.</i> |
| Sweet William | <i>Dianthus barbatus</i> |
| Sword fern | <i>Nephrolepis exaltata</i> |
| Tabor | <i>Rhododendron sp.</i> |
| Tahitian gardenia | <i>Gardenia taitensis</i> |
| Tallhedge buckthorn | <i>Rhamnus frangula</i> |
| Techny | <i>Thuja occidentalis</i> |
| Techny american arborvitae | <i>Thuja occidentalis</i> |
| Texas privet | <i>Ligustrum texanum</i> |
| Texas sage | <i>Leucophyllum frutescens</i> |
| Thayeri yew | <i>Taxus x media</i> |
| Threadleaf coreopsis | <i>Coreopsis verticillata</i> |
| Ti | <i>Cordyline terminalis</i> |
| Tortuosa corkscrew willow | <i>Salix matsudana</i> |
| Torulosa | <i>Juniperus chinensis</i> |
| Tradition | <i>Rhododendron sp.</i> |
| Treasure flower | <i>Gazania uniflora leucholaena</i> |
| Traubii ribbon evergreen | <i>Aglaonema commutatum</i> |
| Variiegated firethorn | <i>Pyracantha angustifolia</i> |
| Variiegated hosta | <i>Hosta lancifolia</i> |
| Variegated mirror plant | <i>Coprosma repens</i> |
| Viburnum | <i>Viburnum odoratissimum</i> |
| Viburnum/Japanese snowball | <i>Viburnum dentatum</i> |
| Viburnum/willowwood | <i>Viburnum x rhytidophylloides</i> |
| Vicari | <i>Ligustrum x Vicari</i> |
| Waffle plant/Metallic plant | <i>Hemigraphis sp.</i> |
| Water willow | <i>Jacobinia ghiesbreghtiana</i> |
| Wax myrtle | <i>Myrica cerifera</i> |
| Weeping dagger | <i>Yucca pendula</i> |
| Weeping forsythia | <i>Forsythia suspensa</i> |
| Weeping willow | <i>Salix alba</i> |
| Welleri | <i>Buxus sempervirens</i> |
| Western/Ponderosa pine | <i>Pinus ponderosa</i> |
| Wheeler dwarf, variegated | <i>Pittosporum Tobira</i> |
| White African daisy | <i>Osteospermum fruticosum alba</i> |
| White cascade | <i>Rhododendron sp.</i> |
| White Catawba | <i>Rhododendron catawbiense</i> |
| White cedar | <i>Thuja occidentalis</i> |
| Wild Petunia | <i>Ruellia californica</i> |
| Willowleaf cotoneaster | <i>Cotoneaster salicifolius franch</i> |
| Willow acacia | <i>Acacia saligna</i> |
| Willow-leaved acacia | <i>Acacia salicina</i> |
| Windmill palm | <i>Chamaerops excelsa</i> |
| Witchita blue | <i>Juniperus scopulorum</i> |
| Woodwardii | <i>Thuja occidentalis</i> |
| Yellow bells | <i>Tecoma stans angustate</i> |
| Yellow oleander tree | <i>Thevetia peruviana</i> |
| Yew pine | <i>Podocarpus macrophylla</i> |
| Yucca | <i>Yucca filamentosa</i> |

TABLE 2. 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 170 GRASS HERBICIDE herbicide is applied **“over-the-top”** at label rates.

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

TABLE 3. 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 170 GRASS HERBICIDE herbicide is applied “**over-the-top**” at label rates.

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

TABLE 4. 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 170 GRASS HERBICIDE herbicide is applied “**over-the-top**” at label rates.

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

DIRECTIONS FOR USE ON TURFGRASS:

Turfgrass Species: ORNAMEC 170 GRASS HERBICIDE Grass Herbicide may be applied only to the following established turfgrass species: Tall fescue, Zoysiagrass. **Do not** apply this product to any other turfgrass species.

Weed Species Suppressed: ORNAMEC 170 GRASS HERBICIDE will control or suppress the growth of common bermudagrass and hybrid bermudagrass in tall fescue and zoysiagrass lawns. ORNAMEC 170 GRASS HERBICIDE Herbicide controls only emerged bermudagrass at the time of application.

For spot treatments of tall fescue with hand-operated sprayers: Make applications in the spring and fall. Begin applications in early spring (April-May) as bermudagrass begins growth. Avoid applications to tall fescue during the summer months (July and August). Continue applications at 30-day intervals from late summer until fall to maintain the growth suppression of bermudagrass. Complete control may take 1 to 2 growing seasons.

Avoid applications to tall fescue under stress due to drought, temperature extremes, or chemical injury.

Use hand-operated sprayers (backpack sprayers, compression or pump-up sprayers, knapsack sprayers or tank type sprayers). Add 2.0 fl. oz. of products per one (1.0) gallon of water to treat each 1,000 sq. ft. of turf. Additional spray preparations for tall fescue are presented in the following table:

| Amount of Product | Amount of Spray Needed (at rate of one gallon per 1000 sq. ft. of turf) | | |
|--|--|-----------|-----------|
| | 1 gallon | 2 gallons | 5 gallons |
| Fluid Ounces (fl. oz.) | 2 | 4 | 10 |
| Teaspoons (tsp.) | 12 | 24 | 64 |
| Equal measures: 1.0 fl. oz. = 6 Teaspoons (tsp.) and 8 fl. oz. = 1 cup | | | |

Allow time (up to 24 hours) for this product to be absorbed and translocated before mowing the treated area. Wait 14 days before re-seeding treated areas of tall fescue.

Note: The application of this product will show slight discoloration to the desirable turfgrass. Symptoms are temporary and chlorosis will subside.

For spot treatments of zoysiagrass with hand-operated sprayers: Begin applications in late spring (near June 1) as bermudagrass begins growth. Repeat applications at 30-day intervals throughout the summer until fall to continue the growth suppression of bermudagrass. Complete control may take 1 to 2 growing seasons.

Avoid applications to zoysiagrass under stress due to drought, temperature extremes, or chemical injury.

Use hand-operated sprayers (backpack sprayers, compression or pump-up sprayers, knapsack sprayers or tank type sprayers). Add 1.3 fl.oz. of product per one (1.0) gallon of water to treat 1,000 sq.ft. of turf. Additional spray preparations for zoysiagrass are presented in the following table:

| Amount of Product | Amount of Spray Needed (at rate of one gallon per 1000 sq.ft. of turf) | | |
|--|---|-----------|-----------|
| | 1 gallon | 2 gallons | 5 gallons |
| Fluid Ounces (fl. oz.) | 1.3 | 2.6 | 6.5 |
| Teaspoons (tsp.) | 8.0 | 16.0 | 40.0 |
| Equal measures: 1.0 fl. oz. = 6 Teaspoons (tsp.) and 8 fl. oz. = 1 cup | | | |

Allow time (up to 24 hours) for this product to be absorbed and translocated before mowing the treated area.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE 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

(cont. on next page)

STORAGE AND DISPOSAL (cont.)

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

CONTAINER HANDLING: Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

LIMITED WARRANTY AND DISCLAIMER

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

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE MANUFACTURER NEITHER MAKES NOR INTENDS ANY OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE EXPRESSLY DISCLAIMED. This limited warranty does not extend to the use of the product inconsistent with label instructions, warnings or cautions, or to use of the product under abnormal conditions such as drought, excessive rainfall, tornadoes, hurricanes, etc. These factors are beyond the control of the manufacturer or the seller. Any damages arising from a breach of the manufacturer's warranty shall be limited to direct damages, and shall not include indirect or consequential damages such as loss of profits or values, except as otherwise provided by law.

The terms of this Limited Warranty and Disclaimer cannot be varied by any written or verbal statements or agreements. No employee or agent of the seller is authorized to vary or exceed the terms of this Limited Warranty and Disclaimer in any manner.

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