

PM 23

59144-15

4-21-98

1 of 19



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

OFFICE OF
PESTICIDES AND TOXIC
SUBSTANCES

Mr. Dan Pennington
Gro Tec, Inc.
P.O. Box 290
Madison, GA 30650

APR 21 1998

Dear Mr. Pennington:

Subject: Pennington Crabgrass Preventer 20 With Preemergence
Herbicide
EPA Registration No. 59144-11
Pennington Crabgrass Preventer 43 With Fertilizer
Preemergence Herbicide
EPA Registration No. 59144-12
Pennington Crabgrass Preventer 36 with Fertilizer
Preemergence Herbicide
EPA Registration No. 59144-13
Pennington Crabgrass Preventer 68 with Fertilizer
Preemergence Herbicide
EPA Registration No. 59144-14
Pennington Crabgrass Preventer with Fertilizer
Preemergence Herbicide (2%)
EPA Registration No. 59144-15
Pennington Crabgrass Preventer 275 with Fertilizer
EPA Registration No. 59144-17
Applications and Letters Dated February 3, 1998,
Update Labeling to Match Barricade® F Herbicide
EPA Registration No. 55947-144

The proposed labeling has been reviewed and found acceptable as amendments to the subject pesticide product registrations. The amendments to each of the labels submitted are acceptable under the Federal Insecticide, Fungicide and Rodenticide Act, (FIFRA) as amended, provided that you:

- o Submit one (1) copy of your final printed label prior to your shipment of each of these pesticide products.

If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA,

2 of 19

section 6(e). Your release for shipment of the product constitutes acceptance of this condition.

A stamped copy of the proposed labels are enclosed for your records.

Sincerely yours,

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

Enclosure

3019

PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE

Active Ingredient:

Prodiamine, [N,N₃-Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-m-phenylenediamine] 2.0%

Inert Ingredients: 98.0%

Total: 100.0%

Guaranteed Fertilizer Analysis:

Nitrogen 32% (N)

Phosphorus 4% (P₂O₅)

Potassium 6% (K₂O)

Nitrogen from: Urea formaldehyde, Urea, Ammonia

For selective preemergence control of grass and broadleaf weeds in:

- established turf grasses (excluding golf course putting greens) and lawns
- landscape ornamentals (including established perennials and wildflower plantings)

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See the following section, Precautionary Statements, Hazards To Humans and Domestic Animals, for additional information.

Net Weight:

EPA Reg. No. 59144-15

EPA Est. No.

ACCEPTED
with COMMENTS
In EPA Letter Dated

APR 21 1998

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

59144-15

Gro Tec, Inc.
P.O. Box 290
Madison, GA 30650

BARRICADE® is a Registered Trademark of Novartis Crop
Protection, Inc.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION

Causes moderate eye injury (irritation). Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact while handling the material may cause allergic reactions in some individuals.

Statements of Practical Treatment

If in eyes: Flush thoroughly with water for several minutes. Get medical attention if irritation persists.

If on skin: Wash with soap and water. Rinse thoroughly. Get medical attention if irritation persists.

If inhaled: Remove victim to fresh air.

Environmental Hazards

This product has low solubility in water. At the limits of solubility, this product is not toxic to fish. However, at concentrations above the level of water solubility, it may be toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate water when disposing of equipment washwaters.

If material is spilled: Contain and sweep up material of spill for disposal or use per label instructions. Wash cleanup equipment to prevent contamination elsewhere. Excess quantities above normal application rates could result in damage to plants subject to spill. Water-in remainder, disc under, cover with layer of soil, or leave exposed to sunlight, as deemed appropriate to the situation.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

Storage

Store in original container away from other fertilizer, feed, or food stuffs and separated from other pesticides.

Pesticide Disposal

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

CONTAINER DISPOSAL

Paper containers: Completely empty container into application equipment. Then dispose of empty container in a sanitary landfill or at an incineration facility, or; if allowed by state and local authorities, by burning locally. If burned, stay out of smoke.

DIRECTIONS FOR USE

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

PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% is a selective preemergence herbicide that provides residual control of many grass and broadleaf weeds in:

- Established turf grasses (excluding golf course putting greens) and lawns
- Landscape ornamentals
- Established perennials and wildflower plantings

PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% controls susceptible weeds by inhibiting weed seeds germination and root development. Most effective weed control will be obtained when PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% is activated by at least 0.5 inches of rainfall or irrigation, or with shallow (1-2 inches) incorporation, prior to weed seed germination and within 14 days following application.

Not for use on plants being grown (1) for sale or other commercial use, (2) for commercial seed production, or (3) for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in ornamental gardens or parks, or on golf courses or lawns and grounds.

Do not graze or feed livestock forage cut from areas treated with PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00%.

Do not apply this product through any type of irrigation system.

Do not apply aeriaily.

Do not apply to golf course putting greens.

Application Directions

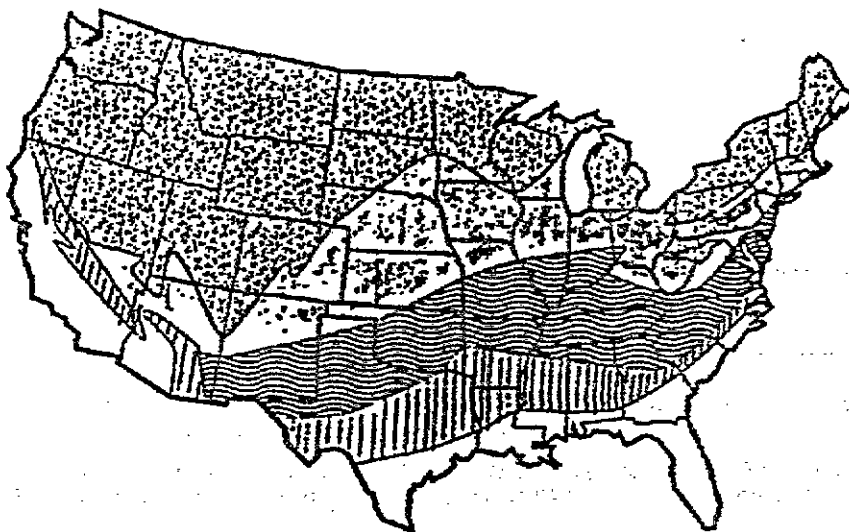
Apply uniformly with suitable, calibrated application equipment.

ESTABLISHED TURF






PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% is a selective preemergence herbicide that, when properly applied, will control certain grass and broadleaf weeds in established turf grasses and lawns. The maximum amount of PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% that may be applied per year is given for each turf grass species in the Maximum Annual Rates section of this label.

Most effective weed control in turf grasses will be obtained when PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% is activated by at least 0.5 inches of rainfall or irrigation prior to weed seed germination and within 14 days following application. See the map below for approximate crabgrass seed germination dates.

CRABGRASS SEED GERMINATION DATES



Approximate Date

-  After May 30
-  After May 10
-  After April 20
-  After March 20
-  January 1 to March 20

Use Precautions: The following precautions apply to the use of PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% in turf grasses and lawns.

Application of PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% may thin emerged annual bluegrass and newly overseeded grasses.

Do not apply to overseeded turf within 60 days after seeding or until after the second mowing, whichever is longer. Injury to desirable seedlings is likely if PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% is applied before seedling secondary roots are in the second inch of soil, not thatch plus soil.

Do not cut (harvest) treated sod before 120 days after application. Do not apply to newly set sod until the following year.

Application of PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% to turf stressed by drought, low fertility, or pest damage may result in turf injury.

Disturbing the herbicide barrier with cultural practices such as disking may result in reduced weed control.

Do not apply PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% to putting greens or areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (*Poa annua*) are desirable species.

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Rates of Application

PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% may be applied as a single application or in sequential applications to control weeds germinating throughout the year. All applications must be made prior to germination of the target weeds. PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% will not control established weeds.

Maximum use rate selection should be based on turf species. The length of time of residual weed control provided by PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% is related to the rate applied.

Maximum Annual Rates

PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% is recommended for use on the turf grass species listed in the following table. Do not exceed the maximum yearly rate as given in the following table:

Maximum Application Rate/Calendar Year of PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% by Turf Grass Species ⁽¹⁾		
Turf Species:	Lbs. Product/A	Lbs. ai/A
Bermudagrass ⁽²⁾	75	1.5
Bahiagrass		
Centipedegrass		
Seashore Paspalum		
St. Augustinegrass		
Tall Fescue (including turf-type)		
Zoysia		
Buffalograss	50	1.0
Kentucky Bluegrass		
Perennial Ryegrass		
Creeping Red Fescue	37	0.75
Creeping Bentgrass	33	0.65

(1) These are the maximum rates per calendar year by species limitations.

(2) May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 26 lbs./A. Newly sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded. Suppression only of Foxtail, Goosegrass, and Rescuegrass due to reduced product rates used in sprigging situations.

- Do not apply more than 75 lbs. of PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% per calendar year.
- Use higher rates of PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% to achieve higher levels of fertility and longer periods of weed control for each turf type, but do not exceed the maximum application rates specified in the Maximum Annual Rates Table.

Weeds Controlled

When used in accordance with this label PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% will provide control of the following weeds:

Barnyardgrass	Lambsquarter, Common
Bluegrass, Annual (<i>Poa annua</i>)	Lovegrass
Carpetweed	Panicum (Texas, Fall, Browntop)
Chickweed, Common	Pigweed
Chickweed, Mouseear (from seed)	Purslane, Common
Crabgrass (large, smooth)	Pusley, Florida ³
Crowfootgrass	Rescuegrass
Cupgrass, Woolly	Shepherd's Purse ²
Foxtails, Annual	Signalgrass, Broadleaf
Goosegrass ¹	Sprangletop
Henbit	Speedwell, Persian
Itchgrass	Spurge, Prostrate
Johnsongrass (from seed)	Witchgrass
Junglerice	Woodsorrel, Yellow (from seed)
Knotweed	
Kochia	

¹ In many areas a single application of 33 to 75 lbs./A of PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season, most effective weed control may be obtained by making an initial application of 33 to 50 lbs./A followed after 60 to 90 days by a second application at doses that would not exceed those given in the Maximum Annual Rate Table. Do not exceed the maximum rate for turf grass species listed in the Maximum Annual Rate Table above.

² Applications for this weed should be made in late summer, fall, or winter prior to germination.

³ Suppression only.

Sequential applications may be made so long as the total amount of product applied does not exceed the maximum annual application rates recommended for each turf species. All applications must be made prior to germination of the weed seeds.

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WHEN TO APPLY AFTER OVERSEEDING TURF

Do not apply to overseeded turf within 60 days after seeding or until after the second mowing, whichever is longer. Injury to desirable seedlings is likely if PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% is applied before seedling secondary roots are in the second inch of soil, not thatch plus soil.

WHEN TO OVERSEED AFTER APPLICATION

PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% will inhibit the germination of turf species if overseeded too soon after application. Follow rates and intervals in the table below for best overseeding/reseeding results.

PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% Rate (lb./A)		Months Before Overseeding		
Product	ai	North	Transition	South
25	.50	4	4	4
33	.66	5	4	4
37	.74	6	5	5
40	.80	-	6	6
50	1.00	-	7	7
57	1.14	-	-	9
65	1.30	-	-	10
75	1.50	-	-	12

LANDSCAPE ORNAMENTALS (including Established Perennials and Wildflower Plantings)

PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% may be applied for residual preemergence weed control in ornamentals.

Use Rates

Apply PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% at 33 to 75 lbs./A in fall and/or spring. Use higher rates of application for longer control periods. Sequential applications may be made so long as the total amount of product applied does not exceed the maximum annual application rate of 75 lbs./A.

Application Timing and Information

PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% is a preemergence herbicide and will not control emerged weeds. Most effective weed control in ornamentals will be obtained when PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% is activated by at least 0.5 inches of rainfall or irrigation, or with shallow (1 to 2 inches) mechanical incorporation, prior to weed seed germination and within 14 days following application.

Best weed control is obtained when PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% is applied to soil free of clods, weeds, and debris such as leaves. Prior to application of PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00%, control existing vegetation by hand weeding, cultivation, or the use of an appropriate postemergence herbicide.

Established Landscape Ornamentals

PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% may be applied to established ornamentals as a broadcast, over the top, or directed application. Irrigation or rainfall soon after application will wash residues off plant foliage and activate PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% in the soil.

Newly Transplanted Landscape Ornamentals

PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% may be applied to newly transplanted ornamentals as a broadcast, over the top, or directed application. Delay application to allow soil to settle around new transplants and water thoroughly before applying Barricade. Apply Barricade after cuttings form roots and become established. Apply before budding/grafting or after buds/grafts have taken to avoid any inhibition of the tissue union.

Tolerant Ornamental Species

PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% will not harm most trees, shrubs, vines and flowers. The species listed below are tolerant to PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00%. Best results will be obtained when PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% is uniformly applied to the soil surface; avoid applying to ornamental shoots which may defeat the effort to get uniform distribution on the soil surface. PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00% may be applied over the top of these species.

When plants are under stress (such as heat, drought, or frost damage) some cultivars of listed plants may be sensitive to PENNINGTON CRABGRASS PREVENTER PLUS FERTILIZER W/BARRICADE 2.00%.

Scientific NameCommon Name

<i>Abies</i> spp.	Fir species** (Balsam, Fraser, Noble, etc.)
<i>Abelia grandiflora</i>	Abelia: Sherwood
<i>Acer palmatum</i>	Japanese Maple
<i>A. platanoides</i>	Norway Maple
<i>Achillea</i> , sp.	Yarrow: King Edward
<i>Actinidia chinensis</i>	Kiwi*
<i>Agapanthus africanus</i>	Lily-of-the-Nile (African Lily)
<i>Agapanthus orientalis</i>	
<i>Akebia quintata</i>	Five-Leaf or Chocolate Vine
<i>Allium cernuum</i>	Lady's Leek, Nodding Onion
<i>Anemone hybrida</i>	Japanese Anemone
<i>Aquilegia</i> sp.	Aquilegia: Red and Gold
<i>Arctostaphylos densiflora</i>	Vine Hill Manzanita
<i>Arctotheca calendula</i>	Cape Weed
<i>Artemisia</i> sp.	Wormwood; Silver Mound, Castle
<i>Aster</i> sp.	Aster: Bonny Blue, Purple Dome
<i>Aster X Frikartii</i>	
<i>Athrium Filiz-femina</i>	Lady Fern; Fern Lady
<i>Aucuba japonica</i>	Japanese Aucuba
<i>Begonia</i> sp.	Fibrous Begonia: Hardy Grandis
<i>Berberis gladwynensis</i>	Barberry
<i>B. julianae</i>	Wintergreen Barberry
<i>B. mentorensis</i>	Mentor Barberry
<i>B. thunbergii</i>	Japanese Barberry
<i>B. verruculosa</i>	Warty Barberry
<i>Bergenia cordifolia</i>	
<i>Boltonia asteroides</i>	Snowbank
<i>Bougainvillea</i> spp.	Bougainvillea
<i>Buddleia davidii</i>	Butterfly-Bush (Dwarf Blue); Royal Red

* Do not use on food producing trees, vines, or plants.

** Not for use on container grown plants.

Scientific NameCommon Name

<i>Buxus microphylla</i>	Japanese Boxwood
<i>Callistemon viminalis</i>	Weeping Bottlebrush
<i>Calluna vulgaris</i>	Scotch Heather
<i>Campanula carpatica</i>	Tussock Bellflower, (White Clips)
<i>Campis X Tagliabuana</i>	Trumpet Creeper, Trumpet Flower, Madame Galen
<i>Carpobrotus edulis</i>	Hottentot Fig (Ice Plant)
<i>Cassia artemisoides</i>	Feathery Cassia
<i>Ceanothus rigidus</i>	Wild Lilac
<i>Ceratostigma plumbagonoides</i>	
<i>Chamaecyparis pisifera</i>	False Cypress
<i>Chrysanthemum nipponicum</i>	
<i>Cleyera japonica</i>	Cleyera
<i>Citrus spp.</i>	Citrus species*
<i>Coreopsis sp.</i>	Coreopsis (Calliopsis): Early Sunrise, Moonbeam
<i>Cornus florida</i>	Flowering Dogwood
<i>C. stolonifera</i>	American Dogwood
<i>Cortaderia selloana</i>	Pampas Grass
<i>Cotoneaster apiculatus</i>	Cranberry Cotoneaster
<i>C. buxifolius</i>	Cotoneaster
<i>C. dammeri</i>	Bearberry Cotoneaster
<i>C. microphyllus</i>	Rockspray Cotoneaster
<i>Cretaegus spp.</i>	Hawthorne
<i>Crococsmia sp.</i>	Lucifer
<i>Cupressus sempervirens</i>	Italian Cypress
<i>Delosperma alba</i>	White Trailing Ice Plant
<i>Delosperma sp.</i>	Cooperi Pink
<i>Delphinium sp.</i>	Larkspur: Blue Elf
<i>Dianthus deltoides</i>	Dianthus; Maiden Pinks "Zing"
<i>D. gratianopolitanus</i>	Cheddar Pink
<i>Dodonea viscosa</i>	Hop Bush
<i>Echinacea pupurea</i>	Coneflower, Purple; Magnus
<i>Elaeagnus pungens</i>	Silverberry
<i>Euonymus fortunei</i>	Wintercreeper
<i>E. japonica</i>	Japanese Spindle Tree (Evergreen Euonymus)
<i>E. kiautschovica</i>	Spreading Euonymus
<i>Fatsia japonica</i>	Japanese Aralia
<i>Forsythia intermedia</i>	Border Forsythia
<i>Forsythia suspensa</i>	Weeping Forsythia
<i>F. viridissima</i>	Greenstem Forsythia

* Do not use on food producing trees, vines, or plants.

** Not for use on container grown plants.

Scientific Name	Common Name
<i>Gaillardia</i> sp.	Gaillardia, Blanket Flower
<i>Gardenia jasminoides</i>	"Goblin" Gardenia, Cape Jasmine, Radicans
<i>Gaura</i> sp.	
<i>Gentiana dahurica</i>	Gentian
<i>Geranium cinereum</i>	Cranesbill
<i>Gladiolus</i> spp.	Gladiolus species**
<i>Gypsophila repens</i>	Baby's Breath
<i>Hedera helix</i>	English Ivy
<i>Hellanthemum</i> sp.	Sunrose
<i>Hemerocallis</i> sp.	Daylily: Aztec Gold; Stella De Oro; Tender Love
<i>Hibiscus</i>	Rose of Sharon**
<i>Hibiscus</i> sp.	Mallow: Disco Belle White
<i>Hibiscus rosa-sinensis</i>	Chinese Hibiscus
<i>Hosta plantaginea</i>	Hosta, Plantain Lily (Fragrant)
<i>H. Sieboldiana</i>	Hosta, "Searsucker"
<i>Houttuynia cordata</i> var: variegata	
<i>Hydrangea macrophylla</i>	Bigleaf Hydrangea
<i>Ilex cornuta</i>	Chinese Holly
<i>I. crenata</i>	Japanese Holly; Helli
<i>I. opaca</i>	American Holly
<i>I. pernyi</i>	Holly
<i>I. vomitoria</i>	Yaupon Holly; Schillings
<i>Inula ensifolia</i>	
<i>Iris ensata</i>	Sword-Leaved Iris; Jodlesong
<i>Iris siberica</i>	Siberian Iris; Cabernet
<i>Iris</i> spp.	Iris species**
<i>Jasminum nudiflorum</i>	Winter Jasmine
<i>Juniperus chinensis</i>	Chinese Juniper; Nick's Compact, Parsonii
<i>J. conferta</i>	Shore Juniper; Blue Pacific
<i>J. davurica</i>	Parsoni
<i>J. horizontalis</i>	Creeping Juniper
<i>Juglans</i> sp.	Walnut*
<i>Justicia brandegeana</i>	Shrimp Plant
<i>Lagerstromia indica</i>	Crape Myrtle
<i>Lagerstromia indica</i> X <i>Fauriei</i>	Crape Myrtle; Tuscarora
<i>Lantana montevidensis</i>	Weeping Lantana
<i>Lavender</i> sp.	Lavender; Munstead
<i>Leontopodium alpinum</i>	Edelweiss
<i>Ligustrum sinense</i>	Chinese Privet; Variegata
<i>Ligustrum amurense</i>	Amur Privet

* Do not use on food producing trees, vines, or plants.

** Not for use on container grown plants.

Scientific Name	Common Name
<i>L. japonicum</i>	Japanese Privet
<i>L. lucidum</i>	Glossy Privet (Waxleaf)
<i>Lilium</i> sp.	Lily, Jazz
<i>Liriope muscari</i>	Big Blue Lily; Turf; Silver Mound; Evergreen Giant
<i>Liriope Muscari</i> var. <i>variegata</i>	Liriope, Variegated
<i>Liriope spicata</i>	Liriope, Creeping
<i>Lobelia Cardinalis</i>	Cardinal Flower, Indian Pink
<i>Lonicera japonica</i>	Japanese Honeysuckle
<i>L. tatarica</i>	Tatarian Honeysuckle
<i>Loropetalum chinense</i>	Burgundy
<i>Lythrum</i> sp.	Loosestrife; Modern Pink
<i>Magnolia</i> spp.	Magnolia species**
<i>Malephora luteola</i>	Ice Plant
<i>Malus</i> sp.	Crabapple*
<i>Miscanthus sinensis</i>	Yaku Jima, Silberfeder
<i>Nandina domestica</i>	Heavenly Bamboo
<i>Narcissus</i> spp.	Narcissus species**
<i>Nerium oleander</i>	Oleander
<i>Olea europaea</i>	Olive*
<i>Ophiopogon japonicus</i>	Mondo Grass
<i>Osmanthus heterophyllus</i>	Osmanthus (False Holly): Gulf Tide
<i>Osteospermum fruticosum</i>	Trailing African Daisy
<i>Oxydendrum arboreum</i>	Sourwood
<i>Paeonia suffruticosa</i>	Tree Peony
<i>Pennisetum setaceum</i>	Fountain Grass (Dwarf)
<i>Perovskia atriplicifolia</i>	
<i>Persea americana</i>	Avocado*
<i>Photnia fraseri</i>	Frasier's Photinia (Redtip)
<i>Physotegia Virginiana</i>	Dragonhead, False; Vivid
<i>Picea</i> spp.	Spruce species** (Colorado Blue, Norway, etc.)
<i>Pieris japonica</i>	Lily-of-the-Valley Bush
<i>Pinus brutia</i>	Calabrian Pine
<i>P. canariensis</i>	Canary Island Pine
<i>P. elliottii</i>	Slash Pine
<i>P. halepensis</i>	Aleppo Pine
<i>P. nigra</i>	Austrian Pine
<i>P. palustris</i>	Longleaf Pine
<i>P. radiata</i>	Monterey Pine
<i>P. thunbergiana</i>	Japanese Black Pine
<i>P. strobus</i>	Eastern White Pine

* Do not use on food producing trees, vines, or plants.

** Not for use on container grown plants.

Scientific NameCommon Name

<i>P. sylvestris</i>	Scotch Pine
<i>P. taeda</i>	Loblolly Pine
<i>P. virginiana</i>	Virginia Pine
<i>Pistachio</i> sp.	Pistachio*
<i>Pittosporum rhombifolium</i>	Queensland Pittosporum
<i>P. tobira</i>	Japanese Pittosporum
<i>Podocarpus macrophyllus</i>	Japanese Yew
<i>Prunus laurocerasus</i>	English Laurel
<i>Prunus</i> sp.	Almond, Apricot, Nectarine, Peach, Plum and Prune*
<i>Pseudotsuga menziesii</i>	Douglas Fir**
<i>Pyracantha coccinea</i>	Firethorn (Scarlet)
<i>P. fortuneana</i>	Firethorn
<i>P. koidzumii</i>	Firethorn
<i>Pyrus</i> sp.	Bradford Pear sp.
<i>Quercus shumardii</i>	Oak, Shumard's Red
<i>Quercus</i> spp.	Oak species
<i>Raphiolepis indica</i>	Indian Hawthorne
<i>Raphiolepis umbellata</i>	Yedda Hawthorn
<i>Rhododendron</i> (including Azalea)	'Coral Bells' 'Delaware Valley White' 'Flame Creeper' 'Formosa' 'Girard Crimson' 'George L. Tabor' 'Hino-crimson' 'PJM' 'Roseum Elegans' 'Wakeiebisu' 'White Gumbo'
<i>Rosa banksiae</i>	Lady Bank's Rose
<i>Rosmarinus officinalis</i>	Rosemary*
<i>Rudbeckia</i> sp.	Black-Eyed Susan; Goldstrum
<i>Santolina, virens</i>	Santolina
<i>Saxifraga</i> sp.	Saxifrage; Purple Dome
<i>Scabiosa</i> sp.	Pincushion Flower
<i>Sedum album</i>	Stonecrop
<i>Sedum cauticola</i>	Stonecrop; Lidakense
<i>Sedum dasyphyllum</i>	Stonecrop
<i>Sedum spurium</i>	Stonecrop; Dragon's Blood
<i>Spiraea Bumalda</i>	Spiraea: Anthony Waterer

* Do not use on food producing trees, vines, or plants.

** Not for use on container grown plants.

Scientific NameCommon Name

<i>Syzygium paniculatum</i>	Australian Brushcherry
<i>Taxus cuspidata</i>	Japanese Yew
<i>T. media</i>	Yew
<i>Teucrium</i> sp.	Germander
<i>Thalictrum dipterocarpum</i>	Meadow Rue
<i>Thuja occidentalis</i>	American Arborvitae
<i>Trachelospermum asiaticum</i>	Star Jasmine
<i>Tsuga canadensis</i>	Canada Hemlock
<i>Tulipa</i> spp.	Tulip species
<i>Veronica</i> sp.	Veronica, Speedwell; Sunny Border
<i>Viburnum japonicum</i>	Japanese Viburnum
<i>V. odoratissimum</i>	Sweet Viburnum
<i>V. plicatum</i>	Japanese Snowball
<i>V. rigidum</i>	Canary Island Viburnum
<i>V. suspensum</i>	Arrowwood Viburnum
<i>V. tinus</i>	Laurustinus
<i>V. trilobium</i>	Cranberry Bush
<i>V. wrightii</i>	Leatherleaf Viburnum
<i>Vinca major</i>	Greater Periwinkle, Vinca
<i>Vinca minor</i>	Common Periwinkle, Vinca
<i>Vitis</i> sp.	Grape*
<i>Weigela florida</i>	Old Fashioned Weigela
<i>Yucca aloifolia</i>	Spanish Bayonet, Yucca
<i>Y. filamentosa</i>	Adam's Needle, Yucca

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WARRANTY & DISCLAIMER

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