

OCT 22 1997

Mr. Thomas J. Schmit
Howard Johnson's Enterprises, Inc.
740 W. Virginia St., No. 222
Milwaukee, WI 53204

Dear Mr. Schmit:

Subject: Crabgrass Preventer Plus with 0.20 Barricade®
Preemergence Herbicide
EPA Registration No. 32802-65
Crabgrass Preventer Plus with 0.37 Barricade®
Preemergence Herbicide
EPA Registration No. 32802-66
Crabgrass Preventer Plus with 0.50 Barricade®
Preemergence Herbicide
EPA Registration No. 32802-67
Crabgrass Preventer Plus with 0.25 Barricade®
Preemergence Herbicide
EPA Registration No. 32802-73
Application and Letter Dated June 26, 1997, Request To
Amend Labeling: Updating Label to reflect that Accepted
for Novartis' Barricade® F Herbicide and Revising
Sizes of Retail Container and Type of Containers

Your request to amend the label of the subject pesticide product registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, to reflect the subject amendments has been reviewed and is acceptable under the Act, provided that you:

1. Correct the address shown on all labels to reflect your address of record with this Agency.
2. Correct the statement on the front panel that reads: "BARRICADE® is a Registered Trademark of Sandoz, Inc." to read "BARRICADE® is a Registered Trademark of Novartis Crop Protection, Inc."

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3. On labels for the 0.37% and 0.56% active ingredient:

Under "Directions for Use" section correct the statement that reads: "Most effective weed control will be by at least 0.5 inch of rainfall or irrigation, or with shallow (12 inches) incorporation, prior to weed seed germination and within 14 days following application." to read: "Most..... shallow (1 to 2 inches)application."

Certainly, you do not want 12 inches of shallow incorporation.

4. Correct footnote 1, for the "weed Controlled" section to reflect the correct dosages. In case of the 0.37% product the dosage should be 175 to 400 lbs/A.

5. On label for the 0.37% and 0.56% active ingredient:

In the list of "Tolerant Ornamental Species" geranium cinereum ... Cranesbill was omitted or was blurred on the proposed labeling. Either add this species to the list or omit it; if you wish to delete it, resubmit labeling reflecting your choice.

6. Submit one (1) copy of your final printed labeling for each of these products before you release it for shipment under the proposed label, reflecting the above comments.

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

Stamped copies of labels are enclosed for your records.

Sincerely yours,

Joanne I. Miller
Product Manager (23)
Herbicide Branch

ENCLOSURES		CONCURRENCES		Registration Division (7505C)	
SYMBOL					
SURNAME	E. Wilson	Diskette	prodimine:100p:10-22-97		
DATE					

3049

**CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE
HERBICIDE**

ACTIVE INGREDIENT:

Prodiamine: [N³,N³-Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-m-phenylenediamine..... 0.37%

INERT INGREDIENTS: 99.63%

TOTAL: 100.0%

Guaranteed Fertilizer Analysis:

Nitrogen 32 % (N)
Phosphorus 4 % (P₂O₅)
Potassium 6 % (K₂O)

Nitrogen from: Urea formaldehyde, Urea, Ammonia

**ACCEPTED
with COMMENTS
In EPA Letter Dated
OCT 22 1997**
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
32802-66

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 & 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. 32802-66
EPA Est. No.

Howard Johnson's Enterprise, Inc.
~~P.O. Box 2990~~ 700 W. Virginia St. #222
Milwaukee, WI 53204

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

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**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.

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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.

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DIRECTIONS FOR USE

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

CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE 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

CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE controls susceptible weeds by inhibiting weed seeds germination and root development. Most effective weed control will be obtained when CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE is activated by at least 0.5 inch of rainfall or irrigation, or with shallow (12 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 CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE.

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

Do not apply aurally.

Do not apply to golf course putting greens.

Application Directions

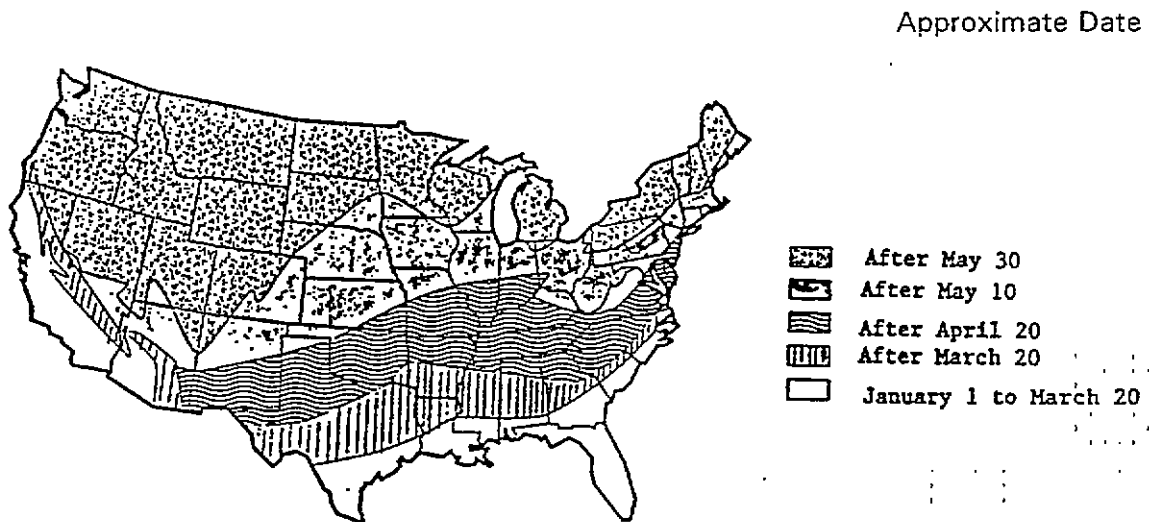
Apply uniformly with suitable, calibrated application equipment.

ESTABLISHED TURF

CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE 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 CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE 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 CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE is activated by at least 0.5 inch 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



Use Precautions

The following precautions apply to the use of CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE in turf grasses and lawns:

Application of CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE 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 CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE 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 CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE 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 CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE to putting greens or areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (*Poa annua*) are desirable species.

GUARANTEE: This product is unconditionally guaranteed.

(Alternate wording for warranty statement:)

GREEN GUARANTEED: Your satisfaction is guaranteed when this product is used in accordance with instructions. If product performance is less than satisfactory, seller will refund the full purchase price with evidence of purchase.

(Alternate wording for warranty statement:)

NOTICE: Buyer and user assumes all risks and liability of use, storage and/or handling of this product not in accordance with the terms of this label.

(Alternate wording for warranty statement:)

WARRANTY AND DISCLAIMER: Manufacturer/seller warrants that this product conforms to the ingredient statement on the label, and that the product is reasonably suited for the labeled use when applied according to directions. Buyer and user assumes all risks and liability of use, storage and/or handling of this product not in accordance with the terms of this label.

(Alternate wording for warranty statement:)

WARRANTY AND DISCLAIMER: Manufacturer/seller warrants that this product conforms to the ingredient statement on the label, and that the product is reasonably suited for the labeled use when applied according to directions. No other warranty, expressed or implied, is made concerning the merchantability or fitness for a particular purpose. Manufacturer/seller's liability shall be limited to the purchase price of the product. In no case shall manufacturer/seller be liable for consequential or incidental damages or loss. Buyer and user assumes all risks and liability of use, storage and/or handling of this product not in accordance with the terms of this label.

(Alternate wording for warranty statement:)

WARRANTY AND DISCLAIMER: Manufacturer/seller warrants that this product conforms to the ingredient statement on the label, and that the product is reasonably suited for the labeled use when applied according to directions. No other warranty, expressed or implied, is made concerning the merchantability or fitness for a particular purpose. Manufacturer/seller's liability shall be limited to the purchase price of the product. In no case shall manufacturer/seller be liable for consequential or incidental damages or loss. Buyer and user assumes all risks and liability of use, storage and/or handling of this product not in accordance with the terms of this label. Products not accepted under these terms should be returned within 20 days in the original, unopened container for return of purchase price.

Rates of Application

CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE 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. CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE 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 CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE is related to the rate applied.

Maximum Annual Rates

CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE 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 CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE by Turf Grass Species ¹⁾		
Turf Species:	lbs product/A	lbs ai/A
Bermudagrass ²⁾ Bahiagrass Centipedegrass Seashore Paspalum St. Augustinegrass Tall Fescue (including turf-type) Zoysia	405	1.5
Buffalograss Kentucky Bluegrass Perennial Ryegrass	270	1.0
Creeping Red Fescue	202	0.75
Creeping Bentgrass	175	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 145 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 405 lbs. of CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE per calendar year.
- Use higher rates of CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE 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 CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE will provide control of the following weeds:

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

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- 1 In many areas a single application of ~~175~~ to 405 lbs/A of CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE 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 175 to 270 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.

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 CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE is applied before seedling secondary roots are in the second inch of soil, not thatch plus soil.

WHEN TO OVERSEED AFTER APPLICATION

CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE 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.

CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE Rate (lb/A)		Months Before Overseeding		
Product	ai	North	Transition	South
135	.50	4	4	4
175	.66	5	4	4
202	.74	6	5	5
215	.80	---	6	6
270	1.00	---	7	7
308	1.14	---	---	9
350	1.30	---	---	10
405	1.50	---	---	12

LANDSCAPE ORNAMENTALS

(including Established Perennials and Wildflower Plantings)

CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE may be applied for residual preemergence weed control in ornamentals.

Use Rates

Apply CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE at 175 to 405 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 405 lbs/A.

Application Timing and Information

CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE is a preemergence herbicide and will not control emerged weeds. Most effective weed control in ornamentals will be obtained when CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE is activated by at least 0.5 inch of rainfall or irrigation, or with shallow (1-2 inches) mechanical incorporation, prior to weed seed germination and within 14 days following application.

Best weed control is obtained when CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE is applied to soil free of clods, weeds, and debris such as leaves. Prior to application of CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE, control existing vegetation by hand weeding, cultivation or the use of an appropriate postemergence herbicide.

Established Landscape Ornamentals

CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE may be applied at any time 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 CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE in the soil.

Newly Transplanted Landscape Ornamentals

CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE 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 CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE. Apply CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE 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

CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE will not harm most trees, shrubs, vines and flowers. The species listed below are tolerant to CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE. Best results will be obtained when CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE 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. CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE 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 CRABGRASS PREVENTER PLUS WITH .37% BARRICADE PREEMERGENCE HERBICIDE.

Scientific name	Common 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>Artemesia</i> sp.	Wormwood; Silver Mound, Castle
<i>Aster</i> sp.	Aster: Bonny Blue; Purple Dome
<i>Aster X Frikartii</i>	

Athrium Filiz-femina
Aucuba japonica
Begonia sp.
Berberis gladwynensis
B. Julianae
B. mentorensis
B. Thunbergii
B. verruculosa
Bergenia cordifolia
Boltonia asteroides

Buddleia davidii

Lady Fern; Fern Lady
 Japanese Aucuba
 Fibrous Begonia: Hardy Grandis
 Barberry
 Wintergreen Barberry
 Mentor Barberry
 Japanese Barberry
 Warty Barberry

 Snowbank

 Butterfly-Bush (Dwarf Blue); Royal Red

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

** Not for use on container grown plants.

Scientific Name

Buxus microphylla
Callistemon viminalis
Calluna vulgaris
Campanula carpatica
Campis X Tagliabuana

Carpobrotus edulis
Cassia artemisoides
Ceanothus rigidus
Ceratostigma plumbagonoides
Chamaecyparis pisifera
Chrysanthemum nipponicum
Cleyera japonica
Citrus spp.
Coreopsis sp.

Common Name

Japanese Boxwood
 Weeping Bottlebrush
 Scotch Heather
 Tussock Bellflower, (White Clips)
 Trumpet Creeper, Trumpet Flower,
 Madame Galen
 Hottentot Fig (Ice Plant)
 Feathery Cassia
 Wild Lilac

 False Cypress

 Cleyera
 Citrus species*
 Coreopsis (Calliopsis): Early Sunrise,
 Moonbeam
 Flowering Dogwood
 American Dogwood
 Pampas Grass
 Cranberry Cotoneaster
 Cotoneaster
 Bearberry Cotoneaster
 Rockspray Cotoneaster
 Hawthorne
 Lucifer
 Italian Cypress
 White Trailing Ice Plant
 Cooperi Pink

Cornus florida
C. stolonifera
Cortaderia selloana
Cotoneaster apiculatus
C. buxifolius
C. Dammeri
C. microphyllus
Cretagus spp.
Crocasmia sp.
Cupressus sempervirens
Delosperma alba
Delosperma sp.

Delphinium sp.
Dianthus deltoides
D. gratianopolitanus
Dodonea viscosa
Echinacea pupurea
Elaeagnus pungens
Euonymus Fortunei
E. japonica
E. kiautschovica
Fatsia japonica
Forsythia intermedia
Forysythis suspensa
F. viridissima

Larkspur: Blue Elf
Dianthus; Maiden Pinks "Zing"
Cheddar Pink
Hop Bush
Coneflower, Purple; Magnus
Silverberry
Wintercreeper
Japanese Spindle Tree (Evergreen Euonymus)
Spreading Euonymus
Japanese Aralia
Border Forsythia
Weeping Forsythia
Greenstem Forsythia

* Do not use on food producing trees, vines, or plants.
** Not for use on container grown plants.

Scientific Name

Gaillardia sp.
Gardenia jasminoides
Gaura sp.
Gentiana dahurica

Gladiolus spp.
Gypsophila repens
Hedera helix
Hellanthemum sp.
Hemerocallis sp.

Hibiscus
Hibiscus sp.
Hibiscus Rosa-sinensis
Hosta plantaginea
H. Sieboldiana
Houttuynia cordata var. variegata
Hydrangea macrophylla
Ilex Bernyi
Ilex cornuta
I. crenata
I. opaca
I. vomitoria
Inula ensifolia
Iris ensata
Iris siberica
Iris spp.
Jasminium nudiflorum

Common Name

Gaillardia, Blanket Flower: "Goblin"
Gardenia, Cape-Jasmine, Radicans
Gentian
Gladiolus species**
Baby's Breath
English Ivy
Sunrose
Daylily: Aztec Gold, Stella De Oro, Tender Love
Rose of Sharon**
Mallow: Disco Belle White
Chinese Hibiscus
Hosta, Plantain Lily (Fragrant)
Hosta, "Searsucker"
Bigleaf Hydrangea
Holly
Chinese Holly
Japanese Holly; Helleri
American Holly
Yaupon Holly; Schillings
Sword-Leaved Iris; Jodlesong
Siberian Iris; Cabernet
Iris species**
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.

<u>Scientific Name</u>	<u>Common Name</u>
<i>L. japonicum</i>	Japanese Privet
<i>L. lucidum</i>	Glossy Privet (Waxleaf)
<i>Lillium</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>Maleophora 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>Photinia 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. elliotii</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

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<u>Scientific Name</u>	<u>Common Name</u>
<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>	'Coral Bells'
(including Azalea)	'Delaware Valley White'
	'Flame Creeper'
	'Formosa'
	'Girard Crimson'
	'George L. Tabor'
	'Hino-crimson'
	'PJM'
	'Roseum Elegans'

Rosa Banksiae
Rosmarinus officinalis
Rudbeckia sp.
Santolina virens
Saxifraga sp.
Scabiosa sp.
Sedum album
Sedum cauticola
Sedum dasyphyllum
Sedum spurium
Spiraea Bumalda

'Wakeiebisu'
 'White Gumbo'
 Lady Bank's Rose
 Rosemary*
 Black-Eyed Susan; Goldstrum
 Santolina
 Saxifrage; Purple Dome
 Pincushion Flower
 Stonecrop
 Stonecrop; Lidakense
 Stonecrop
 Stonecrop; Dragon's Blood
 Spirea: Anthony Waterer

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Scientific Name

Syzygium paniculatum
Taxus cuspidata
T. media
Teucrium sp.
Thalictrum dipterocarpum
Thuja occidentalis
Trachelospermum asiaticum
Tsuga canadensis
Tulipa spp.
Veronica sp.
Viburnum japonicum
V. odoratissimum
V. plicatum
V. rigidum
V. suspensum
V. tinus
V. trilobium
V. wrightii
Vinca major
Vinca minor
Vitis sp.
Weigela florida
Yucca aloifolia
Y. filamentosa

Common Name

Australian Brushcherry
 Japanese Yew
 Yew
 Germander
 Meadow Rue
 American Arborvitae
 Star Jasmine
 Canada Hemlock
 Tulip species
 Veronica, Speedwell; Sunny Border
 Japanese Viburnum
 Sweet Viburnum
 Japanese Snowball
 Canary Island Viburnum
 Arrowwood Viburnum
 Laurustinus
 Cranberry Bush
 Leatherleaf Viburnum
 Greater Periwinkle, Vinca
 Common Periwinkle, Vinca
 Grape*
 Old Fashioned Weigela
 Spanish Bayonet, Yucca
 Adam's Needle, Yucca

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