

34704-781

8/9/2010

1/14



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

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

AUG -9 2010

Edith Emory
Registration Specialist
Loveland Products, Inc.
P.O. Box 1286
Greeley, CO 80632-1286

SUBJECT: Application for Pesticide Notification per PR Notices 98-10 and 2007-4: Updated Warranty Statement, and Alternate "A" Confidential Statement of Formula (CSF) to Add Alternate Source of Active Ingredient Crabgrass Preventer with Barricade® .20% Plus
EPA Reg. No. 34704-781
Application and Alternate "A" CSF Dated January 25, 2010

Dear Ms. Emory:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notices (PRNs) 98-10 and 2007-4 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the actions requested regarding the label fall within the scope of these PRNs. The label that was submitted with the above application is acceptable, date-stamped "Notification", and will be placed in our records. Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identify the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

In addition, the Registration Division (RD) has conducted a review of the Alternate "A" CSF dated January 25, 2010 for its applicability under PRN 98-10 and finds that the action requested does not clearly fall within the scope of PRN 98-10 and will require additional administrative review of the related files. A summary of our findings include:

1. You must submit two (2) separate Alternate CSFs. The first Alternate "A" CSF should include the "Prodiamine Technical" (96%), EPA Reg. No. 100-833 and the "Sipcam Prodiamine Technical" (94.9%), EPA Reg. No. 60063-21 + inerts.
2. The second Alternate "B" CSF should include the "Prodiamine Technical" (97%), EPA Reg. No. 83558-4 (transferred from 66222-109 on September 14, 2006) and the "Prodiamine Technical" (97.5%), EPA Reg. No. 74468-5 + inerts.
3. For the nominal concentration of 0.20% in Column 13b., following the standard certified limit table in 40 CFR 158.350(b)(2).
4. The upper certified limit should be 0.22% (+10% of nominal concentration) in Column 14a.
5. The lower certified limit should be 0.18% (-10% of nominal concentration) in Column 14b.

- 6. You may propose non-standard certified limits instead of those in 4. and 5. above with proper justification.
- 7. The attached document "Description of Formulation Process" for carrier details was not submitted. Please submit this document if you want it considered for review with the application and Alternate CSFs.

The Alternate "A" CSF submitted with the application above is considered "not acceptable". No further processing of this action will occur until the amendments have been submitted to the Agency for review. Our records have been updated accordingly. If you have any questions, please contact me directly at 703-305-5335 or Terri Stowe of my staff at 703-305-6117.

Sincerely,



Paul Mastradone, Ph.D.
Notifications & Minor Formulations Team Leader, Acting
Registration Division (7505P)
Office of Pesticide Programs

3/14



United States
Environmental Protection Agency
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 34704-781	2. EPA Product Manager Kathryn Montague	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Crabgrass Preventer with Barricade .20% Plus	PM# Team 23	
5. Name and Address of Applicant (Include ZIP Code) Loveland Products, Inc. P.O. Box 1286 Greeley, Colorado 80632-1286 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	NOTIFICATION NOTIFICATION AUG - 9 2010
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.	
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.	

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
 Notification of Crabgrass Preventer with Barricade .20% Plus (EPA Reg No 34704-781) for the following revisions: warranty statement; medical emergency number; storage and disposal, add alternate source of active ingredient per PR Notices 98-10 and 2007-4. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:					
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input checked="" type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____		
* Certification must be submitted		If "Yes" Unit Packaging wgt.	No. per container	If "Yes" Package wgt	No. per container
3. Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container 50 lbs.		5. Location of Label Directions <input type="checkbox"/> Label Booklet	
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input checked="" type="checkbox"/> Other Pressure sensitive - self adhering		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)					
Name Edith Emory	Title Registration Specialist	Telephone No. (include Area Code) 970-347-3402			
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.					6. Date Application Received (Stamped) o
2. Signature 		3. Title Registrations Specialist			
4. Typed Name Edith Emory		5. Date January 25, 2010			

C D# 427455 4/14



Performance

Quality

Value

January 25, 2010

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504C)
U.S. Environmental Protection Agency
Room S4900, One Potomac Yard
2777 S Crystal Drive
Arlington VA 22202

Subject: Crabgrass Preventer with Barricade .20% Plus, EPA Reg. No. 34704-781

Loveland Products, Inc. is submitting this notification in accordance with PR Notice 98-10 and 2007-4 to accomplish these label updates:

- 1. Update Medical Emergency Number per PR Notice 98-10
- 2. Update Warranty Statement per PR Notice 98-10
- 3. Update Storage and Disposal Statement per PR Notice 2007-4
- 4. Add alternate source of active ingredient

Please find the following supporting documentation enclosed:

- 1. Form 8570-1 Application for Registration
- 2. 2 copies of revised label
- 3. Copy of EPA letter dated May 11, 2009 approving our warranty statement
- 4. 2 copies of revised CSF

Update Medical Emergency Number, Update Warranty Statement:

This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Update Storage and Disposal Statement:

Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Please contact me at 970-534-3402 or by e-mail (edith.emory@cpsagu.com) if there are any questions or comments concerning this submission.

Sincerely,

Edith Emory
Registration Specialist
Enclosures

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SIGNATURE CRABGRASS PREVENTER WITH BARRICADE® .20% PLUS

ACTIVE INGREDIENT:

Prodiamine, [N³, N³-Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-
m-phenylenediamine] 0.20%

INERT INGREDIENTS: 99.80%

NOTIFICATION

TOTAL: 100.00%

NOTIFICATION

See Fertilizer Tag for Guaranteed Fertilizer Analysis
BARRICADE® is a registered trademark of Syngenta **AUG - 9 2010**

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)
- covers up to 8,700 square feet

KEEP OUT OF REACH OF CHILDREN

CAUTION

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

EPA REG. NO. 34704-781

NET WEIGHT:
IHT

EPA EST. NO. 34704-MS-1

EXP 01/10

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.

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 Inhaled:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have a person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT CALL: 1-866-944-8565.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment by shaking and tapping sides and bottom to loosen clinging particles. Offer for recycling if available or dispose of empty bag in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances.

DIRECTIONS FOR USE

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

This product 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 & wildflower plantings

This product controls susceptible weeds by inhibiting weed seeds germination and root development. Most effective weed control will be obtained when this product is activated by at least 0.5 inches of rainfall or irrigation, or with shallow (1 to 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 this product.
- Do not apply this product through any type of irrigation system.
- Do not apply aerially.
- Do not apply to golf course putting greens.

APPLICATION DIRECTIONS

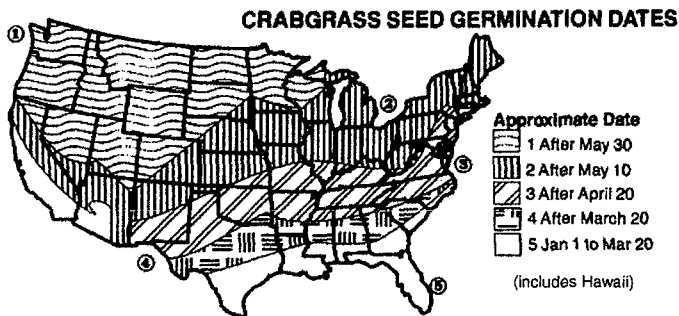
Apply uniformly with suitable, calibrated application equipment.

ESTABLISHED TURF

This product 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

this product 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 this product 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.



Contact your Loveland Products, Inc. Sales Representative or local Agricultural Extension Agent for crabgrass germination information for your area.

Use Precautions

The following precautions apply to the use of this product in turf grasses and lawns:

Application of this product 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 this product 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 this product 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 this product to putting greens or areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (*Poa annua*) are desirable species.

Rates of Application

This product 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. This product 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 this product is related to the rate applied.

Maximum Annual Rates

This product 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
BARRICADE .20% CRABGRASS PREVENTER PLUS by Turf Grass Species¹⁾**

Turf Species:	lbs product/A/1000 sq ft	lbs ai/A
Bermudagrass ²⁾ Bahagrass Centipedegrass Seashore Paspalum St. Augustinegrass Tall Fescue (including turf-type) Zoysia	750 / 17.2	1.5
Buffalograss Kentucky Bluegrass Perennial Ryegrass	500 / 11.5	1.0
Creeping Red Fescue	370 / 8.5	0.75
Creeping Bentgrass	330 / 7.6	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 260 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 750 lbs of this product per calendar year.

• Use higher rates of this product 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.

Spreader Settings

Spreader	Spreader Setting* Rates Lb/A			
	400	267	200	175

(Spreader settings to be determined for a particular fertilizer blend.)

* The above spreader settings are approximate. Condition of your spreader, turf conditions and walking speed with spreader can affect feeding rate. Walk at normal rate. Check your spreader at the rate of application you wish to use and adjust accordingly.

Weeds Controlled

When used in accordance with this label this product will provide control of the following weeds:

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

¹In many areas a single application of 330 to 750 lbs/A of this product 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 330 to 500 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.

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

³Suppression 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 this product is applied before seedling secondary roots are in the second inch of soil, not thatch plus soil.

WHEN TO OVERSEED AFTER APPLICATION

This product 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 with BARRICADE .20% Plus Rate (lb/A)

Product	ai	Months Before Overseeding		
		North	Transition	South
250	.50	4	4	4
330	.65	5	4	4
370	.75	6	5	5
400	.80	—	6	6
500	1.00	—	7	7
570	1.14	—	—	9
650	1.30	—	—	10
750	1.50	—	—	12

LANDSCAPE ORNAMENTALS

(including Established Perennials and Wildflower Plantings)

This product may be applied for residual preemergence weed control in ornamentals.

Use Rates

Apply this product at 330 to 750 lbs/A in fall and/or spring. Use higher rates of application for longer control periods. Sequential or single applications are allowed so long as the total amount of product applied does not exceed the maximum annual application rate of 750 lbs/A/yr.

Application Timing and Information

This product is a preemergence herbicide and will not control emerged weeds. Most effective weed control in ornamentals will be obtained when this product 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 this product is applied to soil free of clods, weeds, and debris such as leaves. Prior to application of this product, control existing vegetation by hand weeding, cultivation, or the use of an appropriate postemergence herbicide.

Established Landscape Ornamentals

This product 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 this product in the soil.

Newly Transplanted Landscape Ornamentals

This product 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 this product. Apply this product 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

This product will not harm most trees, shrubs, vines and flowers. The species listed below are tolerant to this product. Best results will be obtained when this product 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. This product 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 this product.

Scientific Name

Abies spp.
Abelia grandiflora
Acer palmatum
A. platanoides
Achillea, sp.
Actinidia chinensis
Agapanthus africanus
Agapanthus orientalis
Akebia quintata
Allium cernuum
Anemone hybrida
Aquilegia sp.
Arctostaphylos densiflora
Arctotheca calendula
Artemesia sp.
Aster sp.
Aster X Frikartii
Athrium Filiz-femina
Aucuba japonica
Begonia sp.
Berberis gladwynensis
B. julianae
B. mentorensis
B. thunbergii
B. verruculosa
Bergenia cordifolia
Boltonia asteroides
Bougainvillea spp.
Buddleia davidii

Common Name

Fir species** (Balsam, Fraser, Noble, etc.)
Abelia: Sherwood
Japanese Maple
Norway Maple
Yarrow: King Edward
Kiwi*
Lily-of-the-Nile (African Lily)

Five-Leaf or Chocolate Vine
Lady's Leek, Nodding Onion
Japanese Anemone
Aquilegia: Red and Gold
Vine Hill Manzanita
Cape Weed
Wormwood; Silver Mound, Castle
Aster: Bonny Blue, Purple Dome

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

Snowbank
Bougainvillea
Butterfly-Bush (Dwarf Blue); Royal Red



Scientific Name

Common Name

Buxus microphylla
Callisternon 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.
Cornus florida
C. stolonifera
Cortaderia selloana
Cotoneaster apiculatus
C. buxifolius
C. dammeri
C. microphyllus
Cretagus spp.
Crococsmia 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
Forsythia suspensa
F. viridissima
Gaillardia sp.
Gardenia jasminoides
Gaura sp.
Gentiana dahurica
Geranium cinereum
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 cornuta
I. crenata

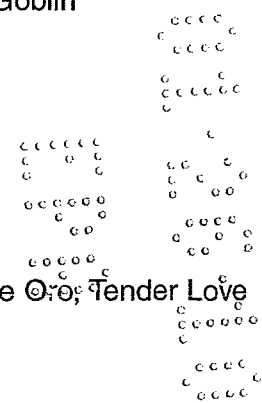
Japanese Boxwood
 Weeping Bottlebrush
 Scotch Heather
 Tussock Bellflower, (White Clips)
 Trumpet Creeper, Trumpet Flower, Madame Galen
 Hottentot Fig (Ice Plant)
 Feathery Cassia
 Wild Lilac

 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
 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
 Gaillardia, Blanket Flower: "Goblin"
 Gardenia, Cape-Jasmine

 Gentian
 Cranesbill
 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"

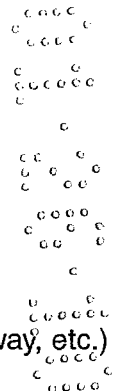
 Bigleaf Hydrangea
 Chinese Holly
 Japanese Holly; Helli



Scientific Name

Common Name

<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 spp.</i>	Iris species**
<i>Jasminium nudiflorum</i>	Winter Jasmine
<i>Juniperus chinensis</i>	Chinese Juniper; Nick's Compact. Parsonnii
<i>J. conferta</i>	Shore Juniper; Blue Pacific
<i>J. davurica</i>	Parsoni
<i>J. horizontalis</i>	Creeping Juniper
<i>Juglans sp.</i>	Walnut*
<i>Justicia brandegeana</i>	Shrimp Plant
<i>Lagerstromia indica</i>	Crape Myrtle
<i>Lagerstomia indica X Fauriei</i>	Crape Myrtle; Tuscarora
<i>Lantana montevidensis</i>	Weeping Lantana
<i>Lavender sp.</i>	Lavender; Munstead
<i>Leontopodium alpinum</i>	Edelweiss
<i>Ligustrum sinense</i>	Chinese Privet; Variegata
<i>Ligustrum amurense</i>	Amur Privet
<i>L. japonicum</i>	Japanese Privet
<i>L. lucidum</i>	Glossy Privet (Waxleaf)
<i>Lillium sp.</i>	Lily: Jazz
<i>Liriope muscari</i>	Big Blue Lily; Turf; Silver Mound; Evergreen Giant
<i>Liriope Muscari var. 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 sp.</i>	Loosestrife; Modern pink
<i>Magnolia spp.</i>	Magnolia species**
<i>Maleophora luteola</i>	Ice Plant
<i>Malus sp.</i>	Crabapple*
<i>Miscanthus sinensis</i>	Yaka Jima, Silberfeder
<i>Nandina domestica</i>	Heavenly Bamboo
<i>Narcissus spp.</i>	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 setaceumi</i>	Fountain Grass (Dwarf)
<i>Perovskia atriplicifolia</i>	
<i>Persea americana</i>	Avocado*
<i>Photinia fraseri</i>	Frasier's Photinia (Redtip)
<i>Physotegia Viginiana</i>	Dragonhead, False; Vivid
<i>Picea spp.</i>	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. palustrus</i>	Longleaf Pine



Scientific Name

Common Name

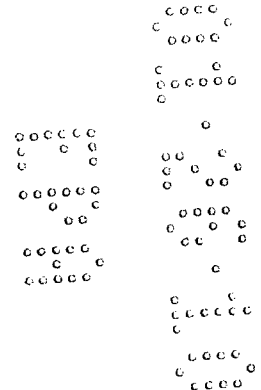
P. radiata
P. thunbergiana
P. strobus
P. sylvestris
P. taeda
P. virginiana
Pistachio sp.
Pittosporum rhombifolium
P. tobira
Podocarpus macrophyllus
Prunus laurocerasus
Prunus sp.

Pseudotsuga menziesii
Pyracantha coccinea
P. fortuneana
P. koidzumii
Pyrus sp.
Quercus Shumardii
Quercus spp.
Raphiolepis indica
Raphiolepis umbellata
Rhododendron
 (including Azalea)

Rosa banksiae
Rosmarinus officinalis
Rudbeckia sp.
Santolina virens
Saxifraga sp.
Scabiosa sp.
Sedum album
Seum cauticola
Sedum dasyphyllum
Sedum spurium
Spiraea Bumalda
Syzygium paniculatum
Taxus cuspidata
T. media
Teucrium sp.
Thalictrum dipterocarpum
Thuja occidentalis
Trachelospermum asiaticum
Tsuga canadensis
Tulipa spp.
Veroniac sp.
Viburnum japonicum
V. odoratissimum
V. plicatum
V. rigidum

Monterey Pine
 Japanese Black Pine
 Eastern White Pine
 Scotch Pine
 Loblolly Pine
 Virginia Pine
 Pistachio*
 Queensland Pittosporum
 Japanese Pittosporum
 Japanese Yew
 English Laurel
 Almond, Apricot, Nectarine,
 Peach, Plum and Prune*
 Douglas Fir**
 Firethorn (Scarlet)
 Firethorn
 Firethorn
 Bradford Pear sp.
 Oak, Shumard's Red
 Oak species
 Indian Hawthorne
 Yedda Hawthorn
 'Coral Bells'
 'Delaware Valley White'
 'Flame Creeper'
 'Formosa'
 'Girard Crimson'
 'George L. Tabor'
 'Hino-crimson'
 'PJM'
 'Roseum Elegans'
 '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

 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



Scientific Name

V. suspensum
V. tinus
V. trilobium
V. wrightii
Vinca major
Vinca minor
Vitis sp.
Weigela florida
Yucca aloifolia
Y. filamentosa

Common Name

Arrowood Viburnum
Laurustinus
Cranberry Bush
Leatherleaf Viburnum
Vinca
Periwinkle
Grape*
Old Fashioned Weigela
Spanish Bayonet
Adam's Needle

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

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