

34704-778

3/8/2010

1/13



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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Ms Edith Emory  
Loveland Products, Inc.  
P.O. Box 1286  
Greeley, Colorado 80632-1286

MAR 8 2010

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4 and 98-10  
Storage and disposal update and other changes (**Warranty Statement, Medical  
Emergency Number**)

Dear Registrant:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 and 98-10 dated January 15, 2010 for:

**EPA Registration 34704-778 Crabgrass Preventer with Barricade .295% Plus**

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and 98-10 and finds that the label change(s) requested falls within the scope of PRN-2007-4 and 98-10. The label has been 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 identifying 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.

If you have any questions, please contact me directly at 703-305-6249 or Banza Djapao of my staff at 703-305-7269.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda Arrington".

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs



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 34704-778	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 .295% 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 _____
<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.

**NOTIFICATION**

**MAR 8 - 2010**

**Explanation: Use additional page(s) if necessary. (For section I and Section II.)**

Notification of Crabgrass Preventer with Barricade .295% Plus (EPA Reg No 34704-778) for the following revisions: warranty statement; medical emergency number; storage and disposal 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  
 Label  Container

4. Size(s) Retail Container  
50 lbs.

5. Location of Label Directions  
 Label Booklet

6. Manner in Which Label is Affixed to Product  
 Lithograph  Paper glued  Stenciled  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
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**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.

2. Signature 	3. Title Registration Specialist	6. Date Application Received (Stamped)
4. Typed Name Edith Emory	5. Date January 15, 2010	



Performance

Quality

Value

January 15, 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 .295% Plus, EPA Reg. No. 34704-778

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

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

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

Handwritten signature and initials



# SIGNATURE CRABGRASS PREVENTER

## WITH BARRICADE® .295% PLUS

13

**ACTIVE INGREDIENT:**

Prodiamine, [N<sup>3</sup>, N<sup>3</sup>-Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-  
m-phenylenediamine] ..... 0.295%

**INERT INGREDIENTS:** ..... 99.705%

**TOTAL:** ..... 100.000%

**NOTIFICATION**

See Fertilizer Tag for Guaranteed Fertilizer Analysis  
BARRICADE® is a registered trademark of Syngenta MAR 8 - 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 12,820 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. 34704-778

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

<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 –20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If Inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have a person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>

**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.

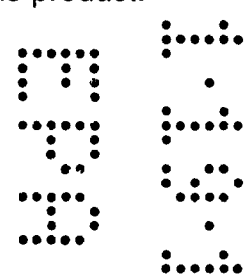
Do not apply this product through any type of irrigation system.

Do not apply aerially.

Do not apply to golf course putting greens.

**APPLICATION DIRECTIONS**

Apply uniformly with suitable, calibrated application equipment.

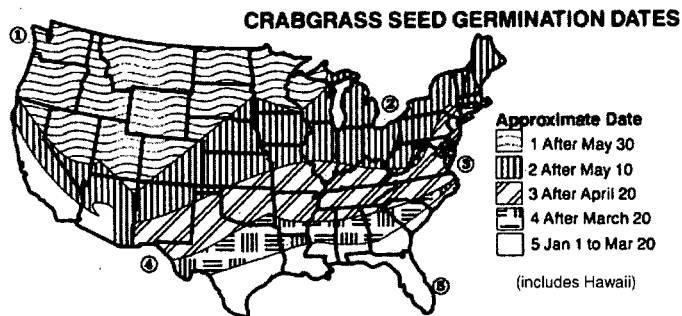


**ESTABLISHED TURF**

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 .295% CRABGRASS PREVENTER PLUS by Turf Grass Species<sup>1)</sup>**

<b>Turf Species:</b>	<b>lbs product/A</b>	<b>lbs ai/A</b>
Bermudagrass <sup>2)</sup>	510	1.5
Bahiagrass		
Centipedegrass		
Seashore Paspalum		
St. Augustinegrass		
Tall Fescue (including turf-type)		
Zoysia		
Buffalograss	340	1.0
Kentucky Bluegrass		
Perennial Ryegrass		
Creeping Red Fescue	255	0.75
Creeping Bentgrass	220	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 176 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 510 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**

<b>Spreader</b>	<b>Spreader Setting* Rates Lb/A</b>			
	<b>400</b>	<b>267</b>	<b>200</b>	<b>175</b>
(Spreaders and 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 <sup>3</sup>        |
| Foxtails, Annual                       | Shepherd's Purse <sup>2</sup>   |
| Goosegrass <sup>1</sup>                | Signalgrass, Broadleaf          |
| Henbit                                 | Speedwell, Persian              |
| Itchgrass                              | Sprangletop                     |
| Johnsongrass (from seed)               | Spurge, Prostrate               |
| Junglerice                             | Witchgrass                      |
| Knotweed                               | Woodsorrel, Yellow (from seed)  |

<sup>1</sup>In many areas a single application of 220 to 510 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 220 to 340 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.

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

<sup>3</sup>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 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 .295% Plus Rate (lb/A)**

Product	ai	Months Before Overseeding		
		North	Transition	South
170	.50	4	4	4
220	.65	5	4	4
255	.75	6	5	5
270	.80	—	6	6
340	1.00	—	7	7
385	1.14	—	—	9
440	1.30	—	—	10
510	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 220 to 510 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 510 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*  
*Artemisia* 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**

<i>Buxus microphylla</i>	Japanese Boxwood
<i>Callisternon 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>Cretagus spp.</i>	Hawthorne
<i>Crocasmia 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
<i>Gaillardia sp</i>	Gaillardia, Blanket Flower: "Goblin"
<i>Gardenia jasminoides</i>	Gardenia, Cape-Jasmine
<i>Gaura sp.</i>	
<i>Gentiana dahurica</i>	Gentian
<i>Geranium cinereum</i>	Cranesbill
<i>Gladiolus spp.</i>	Gladiolus species**
<i>Gypsophila repens</i>	Baby's Breath
<i>Hedera helix</i>	English Ivy
<i>Hellanthemum sp.</i>	Sunrose
<i>Hemerocallis sp.</i>	Daylily: Aztec Gold, Stella De Oro, Tender Love
<i>Hibiscus</i>	Rose of Sharon**
<i>Hibiscus sp.</i>	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 var. variegata</i>	
<i>Hydrangea macrophylla</i>	Bigleaf Hydrangea
<i>Ilex cornuta</i>	Chinese Holly
<i>I. crenata</i>	Japanese Holly; Helleri

<u>Scientific Name</u>	<u>Common Name</u>
<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>Jasminium 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>Lagerstomia indica X 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
<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 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</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>	Yaka 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

**Scientific Name**

**Common Name**

<i>P. radiata</i>	Monterey Pine
<i>P. thunbergiana</i>	Japanese Black Pine
<i>P. strobus</i>	Eastern White Pine
<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>Seum cauticola</i>	Stonecrop; Lidakense
<i>Sedum dasyphyllum</i>	Stonecrop
<i>Sedum spurium</i>	Stonecrop; Dragon's Blood
<i>Spiraea Bumalda</i>	Spirea: Anthony Waterer
<i>Syzygium paniculatum</i>	
<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

**Scientific Name**

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

**Common Name**

Arrowwood 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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