

100-834

3-14-2003

1/23

	United States <b>Environmental Protection Agency</b> Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number  Notification
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**Application for Pesticide - Section I**

1. Company/Product Number 100-834	2. EPA Product Manager Joanne Miller	3. Proposed Classification  <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Endurance Herbicide (alternate brand name for Barricade 65WG)	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Syngenta Crop Protection, Inc. P. O. Box 18300 Greensboro, NC 27419  <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 14 2003

**Explanation: Use additional page(s) if necessary. (For Section I and Section II.)**  
 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 for the subject product to correct a typographical error on the Endurance label. In the Mixing and Application section - Footnote 1, makes two references to rates in a Maximum Application Rate Table. The reference should refer the user to the Use Rates section, and we have corrected the label to direct the user to the Use Rate section. A copy of the label is attached with the correction highlighted.

**Section - III**

1. Material This Product Will Be Packaged In:				2. Type of Container	
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		<input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____	
*Certification must be submitted		If "Yes" Unit Packaging wgt.    No. per Container	If "Yes" Unit Packaging wgt.    No. per container		
3. Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4. Size(s) Retail Container 10 lb bag		5. Location of Label Directions <input type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product	
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 <u>Printed Bag</u>	

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Rich Lotstein	Title Regulatory Product Manager	Telephone No. (Include Area Code) 336-632-7442
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)
2. Signature  	3. Title Regulatory Product Manager	
4. Typed Name Rich Lotstein	5. Date 3/06/03	

Endurance®

Herbicide

Active Ingredient:	
Prodiamine*:	65.0%
Other Ingredients:	35.0%
Total:	100.0%

\*(CAS No. 29091-21-2)

For selective preemergence control of grass and broadleaf weeds in:

- Noncrop areas on or surrounding managed rights-of-way for transportation systems and utilities (including roadways, roadsides, railways, and equipment yards)
- Facilities including substations, tank farms, pumping stations, parking and storage areas, and ungrazed fence rows
- Landscape ornamentals
- Established perennial and wildflower plantings
- Conifer and hardwood seedling nurseries

**NOTIFICATION**

**MAR 14 2003**

**KEEP OUT OF REACH OF CHILDREN.**

**CAUTION**

See additional precautionary statements on back of bag.

10 POUNDS  
NET WEIGHT

EPA Reg. No. 100-834  
EPA Est. 62171-MS-001

NCP 834C-M1C 0201

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**CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY**

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**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, Inc. or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. This warranty does not extend to the use of the product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and Buyer and User assume the risk of any such use. SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall SYNGENTA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitations of Warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

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**DIRECTIONS FOR USE**

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

**Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.**

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

Endurance Herbicide is a selective preemergence herbicide that provides residual control of many grass and broadleaf weeds in vegetation management situations including:

- Noncrop areas on or surrounding managed rights-of-way for transportation systems and utilities (including roadways, roadsides, railways, and equipment yards)
- Facilities including substations, tank farms, pumping stations, parking and storage areas, and ungrazed fence rows
- Landscape ornamentals
- Established perennial and wildflower plantings
- Conifer and hardwood seedling nurseries

Endurance controls susceptible weeds by inhibiting weed seeds germination and root development. Most effective weed control will be obtained when Endurance is activated by at least 0.5 inch of rainfall or irrigation, or with shallow (1-2 inches) incorporation, prior to weed seed germination and within 14 days following application.

Do not graze or feed livestock forage cut from areas treated with Endurance.

All applicable directions, restrictions, and precautions on the labels of EPA registered tank mix partners are to be followed.

Do not blend Endurance onto dry fertilizer or any other granular material.

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

Do not apply aurally.

**MIXING AND APPLICATION**

Apply Endurance in a minimum of 20 gals./A (0.5 gal./1,000 sq. ft.) of carrier (water and/or fluid fertilizer) using a calibrated, low pressure sprayer with 50 mesh or coarser screens. A broadcast boom or hand held wand designed for herbicide or insecticide application will provide the best results. Select nozzle pressure and gallonage to provide complete coverage.

A spray colorant may be used to modify the color of Endurance to improve application accuracy by minimizing swath skips and overlaps.

Thorough mixing of Endurance in the spray tank is essential for uniform application. Fill the spray tank half full with clean water or fluid fertilizer. Start agitation and check to ensure it is working properly, then add Endurance directly into the tank.

Add the rest of the carrier to obtain the final spray volume. Maintain vigorous agitation in the spray tank before and during the application. This will ensure a well mixed spray suspension.

Thoroughly clean the sprayer after use by flushing the system with water containing a detergent. Refer to **Pesticide Disposal** section of this label for waste disposal. Do not allow spray suspension to dry in the tank.

Endurance may be tank mixed with certain other EPA registered herbicides to provide a broader spectrum of weeds controlled or to control emerged weeds. See **Mixing Order** in this section and the **Vegetation Management** and **Landscape Ornamentals** sections for specific recommendations.

**Mixing Order for Tank Mixtures**

When mixing Endurance with other components (carrier and partner pesticide products) add the products to the spray tank in the following order:

1. Water dispersible granules (WG formulations) and wettable powders (WP formulations). Wettable powders should be premixed with a small amount of carrier to form a slurry before addition; water dispersible granules can be added directly during filling. Allow the product to disperse completely before other products are added.
2. Flowable liquids (FL) or suspension concentrates (SC).
3. Emulsifiable concentrates (EC).
4. Surfactants approved for application to turf and ornamentals listed on this label. Check surfactant label before use.

### Compatibility Test

Before mixing Endurance with other pesticides in the spray tank, test the compatibility by mixing all components (carrier and pesticide products) in a small container in proportionate quantities (see following table).

Component Formulations	Amount of Component to Add to One Pint of Spray Carrier (Assuming Volume Is 25 gals./A)		
	Rate Per Acre	Rate Per 1000 Sq. Ft.	Level Teaspoons
Dry	1.0 lb.	0.4 oz.	1.5
Liquid	1.0 pt.	0.4 oz.	0.5

If components do not ball-up or form flakes, sludge, gels, oily films, or layers; then the tested spray mix is compatible. Incompatibility in any of the above forms will usually occur within 5 minutes after mixing.

If components are incompatible, the use of a compatibility agent is recommended. Rerun the above test with commercially available compatibility agents until a suitable suspension is formed.

**Weeds Controlled**

When used in accordance with this label, Endurance 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 1-2.3 lb./A Endurance 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 1-1.5 lb./A followed after 60-90 days by a second application at doses that would not exceed those given in the **Maximum-Application-Rate-Table Use Rates** section. Do not exceed the maximum rate for turf grass species listed in the **Maximum-Application-Rate-Table above Use Rates** section that follows.

<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 rate of 2.3 lbs./A. All applications must be made prior to germination of the weed seeds.

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**VEGETATION MANAGEMENT**

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Endurance may be applied to soil surfaces for preemergence control of many grass and broadleaf weeds in noncropland areas on or surrounding:

- Noncrop areas on or surrounding managed rights-of-way for transportation systems and utilities (including roadways, roadsides, railways, and equipment yards)
- Facilities including substations, tank farms, pumping stations, parking and storage areas, and ungrazed fence rows



Endurance provides preemergence control of germinating weed seeds. Most effective weed control will be obtained when Endurance is activated by at least 0.5 inch rainfall or irrigation, or shallow incorporation prior to weed seed germination and within 14 days following application.

Apply Endurance at 1-2.3 lbs./A in fall and/or spring. Equivalent application for smaller areas is 0.36-0.83 oz./1,000 sq. ft. Use higher rates of application for longer periods of control. Sequential applications may be made so long as the total amount of product applied does not exceed the maximum annual application rate of 2.3 lbs./A.

Endurance may be tank mixed with other registered herbicides for broader spectrum preemergence or postemergence weed control of existing weeds or brush. Tank mixes with Endurance are for use only in states where the tank mix partner(s) are registered for the application site.

Endurance may be tank mixed with Vanquish®, diuron, glufosinate-ammonium (Finale®), Gallery®, Garlon®, Goal®, glyphosate, Krovar® I & II, Oust®, paraquat, Predict®, Princep®, Arsenal®, Spike™, and Telar®. Read and follow the label of each tank mix partner and follow precautionary statements, directions for use, weeds controlled, and all restrictions that appear on the label of the tank mix partner. This product cannot be mixed with any product that bears a label that prohibits against mixing with another pesticide product.

### **Landscape Ornamentals**

Endurance may be applied for residual preemergence weed control in the culture of ornamentals (including Established Perennial and Wildflower Plantings).

### **Use Precautions**

Application of solutions containing Endurance directly to rapidly growing tissues or buds may cause deformation or injury. To reduce injury potential under these circumstances, avoid Endurance application until after newly emerged vegetation has hardened off and immediately wash Endurance from plant surfaces onto soil.

One half inch overhead irrigation applied immediately following "over the top" applications will help activate Endurance in the soil and remove visible product residues from the exposed leaves.

### **Use Rates**

Apply Endurance at 1-2.3 lbs./A in fall and/or spring. Equivalent applications for smaller areas are 0.36-0.83 oz./1,000 sq. ft. 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 2.3 lbs./A.

**Application Timing and Information**

**All Applications**

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

The following section gives directions for the use of Endurance in tank mixtures for use on ornamentals.

**Landscape Plants**

Endurance may be applied at any time to established landscape plants as a broadcast, over the top or directed spray. Irrigation or rainfall soon after application will wash residues off plant foliage and activate Endurance in the soil.

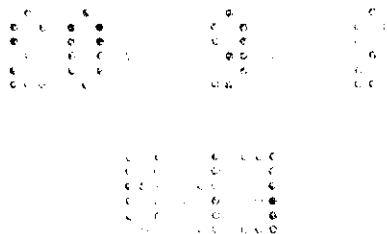
**Tank Mixtures For Use On Ornamentals**

Endurance may be tank mixed with other registered herbicides listed on this label for a broader spectrum of preemergence control or postemergent weed control. Tank mixes with Endurance are for use only in states where the tank mix partner(s), application site and intended use pattern are registered.

Follow the label(s) of Goal (conifers only), Gallery, Predict or other potential tank mix partner(s) for uses, rate recommendations, application timing, weeds controlled, phytotoxicity and specific use precautions and/or restrictions.

Goal in tank mixes with Endurance is effective for the postemergence control of certain broadleaf weeds including malva and filaree. Goal in tank mixes with Endurance can only be applied to conifers listed on the Goal label.

Before combining tank mix partners in the spray tank it is advisable to test compatibility by mixing the products in a small container. See the **Compatibility Test** section under **Mixing and Application**.



Paraquat, glyphosate, and glufosinate-ammonium (Finale) are non-selective postemergence herbicides used for control of most emerged annual grass and broadleaf weeds. Drift of paraquat, glyphosate or glufosinate-ammonium (Finale) onto ornamental plants will cause injury. Tank mixes using paraquat, glyphosate, or glufosinate-ammonium (Finale) must be applied as a directed spray to avoid contact with desirable species. When Endurance is applied in tank mixes with postemergent herbicides recommended on this label, delay irrigation according to the postemergent partner label to allow absorption of the postemergent herbicide.

Do not apply sprays containing either paraquat, glyphosate, or glufosinate-ammonium over the tops of ornamental plants. Extreme care must be exercised to prevent contact of spray mixtures of these herbicides with foliage or stems of turfgrasses, trees, shrubs, or other desirable vegetation because severe damage or death may result. If spraying areas adjacent to desirable plants use a shield to prevent spray from contacting foliage or stems of desirable plants.

### **Tolerant Ornamental Species**

Endurance will not harm most trees, shrubs, vines, and flowers. The species listed below in Table 1 are tolerant to Endurance. Also Endurance is approved for application, except in California, to the species in Table 2. Endurance 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 Endurance.

Table 1 - Tolerant Ornamental Species - All States

<u>Scientific Name</u>	<u>Common Name</u>
<i>Abies</i> spp.**	Fir species** (Balsam, Fraser, Noble, etc.)
<i>Acer palmatum</i>	Japanese Maple
<i>Acer platanoides</i>	Norway Maple
<i>Actinidia chinensis</i> *	Kiwi*
<i>Agapanthus africanus</i>	Lily-of-the-Nile (African Lily)
<i>Arctostaphylos densiflora</i>	Vine Hill Manzanita
<i>Arctotheca calendula</i>	Cape Weed
<i>Aucuba japonica</i>	Japanese Aucuba
<i>Berberis gladwynensis</i>	Barberry
<i>Berberis julianae</i>	Wintergreen Barberry
<i>Berberis mentorensis</i>	Mentor Barberry
<i>Berberis thunbergii</i>	Japanese Barberry
<i>Berberis verruculosa</i>	Warty Barberry
<i>Buxus microphylla</i>	Japanese Boxwood
<i>Callistemon viminalis</i>	Weeping Bottlebrush
<i>Calluna vulgaris</i>	Scotch Heather
<i>Carpobrotus edulis</i>	Hottentot Fig (Ice Plant)
<i>Cassia artemisioides</i>	Feathery Cassia
<i>Ceanothus rigidus</i>	Wild Lilac
<i>Chamaecyparis pisifera</i>	False Cypress
<i>Cleyera japonica</i>	Cleyera
<i>Citrus</i> spp.*	Citrus species*
<i>Cornus florida</i>	Flowering Dogwood
<i>Cornus stolonifera</i>	American Dogwood
<i>Cortaderia selloana</i>	Pampas Grass
<i>Cotoneaster apiculatus</i>	Cranberry Cotoneaster
<i>Cotoneaster buxifolius</i>	Cotoneaster
<i>Cotoneaster dammeri</i>	Bearberry Cotoneaster
<i>Cotoneaster microphyllus</i>	Rockspray Cotoneaster
<i>Crataegus</i> spp.	Hawthorne
<i>Cupressus sempervirens</i>	Italian Cypress
<i>Delosperma alba</i>	White Trailing Ice Plant
<i>Dodonaea viscosa</i>	Hop Bush
<i>Elaeagnus pungens</i>	Silverberry
<i>Euonymus fortunei</i>	Wintercreeper
<i>Euonymus japonica</i>	Japanese Spindle Tree (Evergreen Euonymus)
<i>Euonymus kiautschovicks</i>	Spreading Euonymus
<i>Fatsia japonica</i>	Japanese Aralia
<i>Forsythia intermedia</i>	Border Forsythia
<i>Forsythia viridissima</i>	Greenstem Forsythia

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

\*\*Not for use on container grown plants.

<i>Gardenia jasminoides</i>	Gardenia, Cape-Jasmine
<i>Gladiolus</i> spp.**	Gladiolus species**
<i>Hedera helix</i>	English Ivy
<i>Hibiscus</i> **	Rose of Sharon**
<i>Hibiscus Rosa-sinensis</i>	Chinese Hibiscus
<i>Ilex cornuta</i>	Chinese Holly
<i>Ilex crenata</i>	Japanese Holly
<i>Ilex opaca</i>	American Holly
<i>Ilex pernyi</i>	Holly
<i>Ilex vomitoria</i>	Yaupon Holly
<i>Iris</i> spp.**	Iris species**
<i>Jasminium nudiflorum</i>	Winter Jasmine
<i>Juniperus chinensis</i>	Chinese Juniper
<i>Juniperus conferta</i>	Shore Juniper
<i>Juniperus horizontalis</i>	Creeping Juniper
<i>Juglans</i> spp.*	Walnut*
<i>Justicia brandegeana</i>	Shrimp Plant
<i>Lagerstromia indica</i>	Crape Myrtle
<i>Ligustrum amurense</i>	Amur Privet
<i>Ligustrum japonicum</i>	Japanese Privet
<i>Ligustrum lucidum</i>	Glossy Privet (Wax-Leaf)
<i>Liriope muscari</i>	Big Blue Lillyturf
<i>Lonicera japonica</i>	Japanese Honeysuckle
<i>Lonicera tatarica</i>	Tatarian Honeysuckle
<i>Magnolia</i> spp.**	Magnolia species**
<i>Malephora luteola</i>	Ice Plant
<i>Malus</i> spp.*	Crabapple*
<i>Nandina domestica</i>	Heavenly Bamboo
<i>Narcissus</i> spp.**	Narcissus species**
<i>Nerium</i> spp.	Oleander
<i>Olea europaea</i> *	Olive*
<i>Ophiopogon japonicus</i>	Mondo Grass
<i>Osteospermum fruticosum</i>	Trailing African Daisy
<i>Oxydendrum arboreum</i>	Sourwood
<i>Persea americana</i> *	Avocado*
<i>Photinia fraseri</i>	Frasier's Photinia (Redtip)
<i>Picea</i> spp.**	Spruce species** (Colorado Blue, Norway, etc.)
<i>Pieris japonica</i>	Lily-of-the-Valley Shrub
<i>Pinus brutia</i>	Calabrian Pine
<i>Pinus canariensis</i>	Canary Island Pine
<i>Pinus elliotii</i>	Slash Pine
<i>Pinus halepensis</i>	Aleppo Pine
<i>Pinus nigra</i>	Austrian Black Pine
<i>Pinus palustris</i>	Longleaf Pine
<i>Pinus radiata</i>	Monterey Pine

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

\*\*Not for use on container grown plants.

<i>Pinus strobus</i>	Eastern White Pine
<i>Pinus sylvestris</i>	Scotch Pine
<i>Pinus taeda</i>	Loblolly Pine
<i>Pinus thunbergiana</i>	Japanese Black Pine
<i>Pinus virginiana</i>	Virginia Pine
<i>Pistacia</i> spp.*	Pistachio*
<i>Pittosporum rhombifolium</i>	Queensland Pittosporum
<i>Pittosporum tobira</i>	Japanese Pittosporum
<i>Podocarpus macrophyllus</i>	Japanese Yew
<i>Prunus laurocerasus</i>	English Laurel
<i>Prunus</i> spp.*	Almond, Apricot, Nectarine, Peach, Plum, and Prune*
<i>Pseudotsuga menziesii</i> **	Douglas Fir**
<i>Pyracantha coccinea</i>	Firethorn, Scarlet
<i>Pyracantha fortuneana</i>	Firethorn
<i>Pyracantha koidzumii</i>	Firethorn
<i>Pyrus</i> spp.	Bradford Pear spp.
<i>Quercus rubra</i>	Oak species
<i>Rhaphiolepis indica</i>	Indian Hawthorne
<i>Rhododendron</i>	'Coral Bells'
(including Azalea)	'Formosa'
	'Hino-crimson'
	'PJM'
	'Roseum Elegans'
<i>Rosa banksiae</i>	Lady Bank's Rose
<i>Rosmarinus officinalis</i> *	Rosemary*
<i>Rumohra adiantiformis</i>	Leatherleaf Fern
<i>Santolina virens</i>	
<i>Sedum album</i>	Stonecrop
<i>Syzygium paniculatum</i>	Japanese Boxcherry
<i>Taxus cuspidata</i>	Japanese Yew
<i>Taxus media</i>	Yew
<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>Viburnum japonicum</i>	Japanese Viburnum
<i>Viburnum odoratissimum</i>	Sweet Viburnum
<i>Viburnum plicatum</i>	Japanese Snowball
<i>Viburnum rigidum</i>	Canary Island Viburnum
<i>Viburnum tinus</i>	Laurustinus
<i>Viburnum trilobum</i>	Cranberry Bush
<i>Viburnum wrightii</i>	Leatherleaf Viburnum
<i>Vinca major</i>	Vinca
<i>Vinca minor</i>	Dwarf Periwinkle
<i>Vitis</i> spp.*	Grape*

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

\*\*Not for use on container grown plants.

*Weigela florida*  
*Yucca aloifolia*  
*Yucca filamentosa*

Old Fashioned Weigela  
Spanish Bayonet  
Yucca, Adam's Needle

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

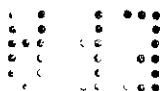
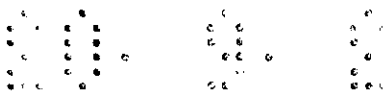


Table 2 - Tolerant Ornamental Species/Varieties - All States Except CA

<u>Scientific Name</u>	<u>Common Name</u>
<i>Abelia grandiflora</i>	Abelia: Sherwood
<i>Achillea</i> spp.	Yarrow: King Edward
<i>Agapanthus orientalis</i>	
<i>Akebia quinata</i>	Five-Leaf or Chocolate Vine
<i>Allium cernuum</i>	Lady's Leek, Nodding Onion
<i>Anemone hybrida</i>	Japanese Anemone
<i>Aquilegia</i> spp.	Aquilegia: Red and Gold
<i>Artemisia</i> spp.	Wormwood; Silver Mound, Castle
<i>Aster</i> spp.	Aster: Bonny Blue, Purple Dome
<i>Aster X frikartii</i>	
<i>Athyrium filix-femina</i>	Lady Fern; Fern Lady
<i>Begonia</i> spp.	Fibrous Begonia: Hardy Grandis
<i>Bergenia cordifolia</i>	
<i>Boltonia asteroides</i>	Snowbank
<i>Bougainvillea</i> spp.	Bougainvillea
<i>Buddleia davidii</i>	Butterfly-Bush (Dwarf Blue); Royal Red
<i>Callistemon citrinus</i>	Crimson Bottlebrush
<i>Campanula carpatica</i>	Tussock Bellflower; (White Clips)
<i>Campis X tagliabuana</i>	Trumpet Creeper, Trumpet Flower; Madame Galen
<i>Ceratostigma plumbaginoides</i>	
<i>Chrysanthemum nipponicum</i>	
<i>Coreopsis</i> spp.	Coreopsis (Calliopsis): Early Sunrise, Moonbeam
<i>Crocsmia</i> spp.	Lucifer
<i>Delosperma</i> spp.	Cooperi Pink
<i>Delphinium</i> spp.	Larkspur; Blue Elf
<i>Dianthus deltoides</i>	Dianthus, Maiden Pinks 'Zing'
<i>Dianthus gratianopolitanus</i>	Cheddar Pink
<i>Echinacea pupurea</i>	Coneflower, Purple; Magnus
<i>Forsythia suspensa</i>	Weeping Forsythia
<i>Gaillardia</i> spp.	Gaillardia, Blanket Flower: 'Goblin'
<i>Gaura</i> spp.	
<i>Gentiana daturica</i>	Gentian
<i>Geranium cinereum</i>	Cranesbill
<i>Gypsophila repens</i>	Baby's Breath
<i>Helianthemum</i> spp.	Sunrose
<i>Hemerocallis</i> spp.	Daylily: Aztec Gold, Stella De Oro, Tender Love
<i>Heucherella</i> spp.	Coral Bell; Bridget Bloom
<i>Hibiscus</i> spp.	Mallow; Disco Belle White



*Hosta plantaginea*  
*Hosta sieboldiana*  
*Houttuynia cordata* var. *variegata*  
*Hydrangea macrophylla*  
*Inula ensifolia*  
*Iris ensata*  
*Iris siberica*  
*Juniperus davurica*  
*Lagerstromia indica* x *fauriei*  
*Lantana montevidensis*  
 Lavender spp.  
*Leontopodium alpinum*  
*Ligustrum sinense*  
*Lilium* spp.  
*Liriope muscari* var. *variegata*  
*Liriope spicata*  
*Lobelia cardinalis*  
*Loropetalum chinense*  
*Lythrum* spp.  
*Miscanthus sinensis*  
*Oenothera missouriensis*  
*Osmanthus heterophyllus*  
*Paeonia suffruticosa*  
*Pennisetum setaceum*  
*Perovskia atriplicifolia*  
*Physostegia virginiana*  
*Quercus shumardii*  
*Rhaphiolepis umbellata*  
*Rhododendron*  
 (including Azalea)

*Rudbeckia* spp.  
*Saxifraga* spp.  
*Scabiosa* spp.  
*Sedum caudicicola*  
*Sedum dasyphyllum*  
*Sedum spurium*  
*Spiraea bumalda*  
*Syzygium paniculatum*

Hosta, Plantain Lily (Fragrant)  
 Hosta, 'Searsucker'  
 Bigleaf Hydrangea  
 Sword-Leaved Iris; Jodlesong  
 Siberian Iris; Cabernet  
 Parsoni  
 Crape Myrtle; Tuscarora  
 Weeping Lantana  
 Lavender; Munstead  
 Edelweiss  
 Chinese Privet; Variegata  
 Lily: Jazz  
 Liriope, Variegated  
 Liriope, Creeping  
 Cardinal Flower, Indian Pink  
 Burgundy  
 Loosestrife; Modern Pink  
 Yaku Jima, Silberfeder  
 Evening Primrose  
 Osmanthus (False Holly): Gulf Tide  
 Tree Peony  
 Fountain Grass (Dwarf)

Dragonhead, False; Vivid  
 Oak, Shumard's Red  
 Yedda Hawthorne  
 'Delaware Valley White'  
 'Flame Creeper'  
 'Girard Crimson'  
 'George L. Tabor'  
 Wakeiebisu  
 White Gumbo  
 Black-Eyed Susan: Goldstrum  
 Saxifrage; Purple Dome  
 Pincushion Flower  
 Stonecrop; Lidakense  
 Stonecrop  
 Stonecrop; Dragon's Blood  
 Spirea: Anthony Waterer  
 Australian Brushcherry

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*Teucrium* spp.  
*Thalictrum dipterocarpum*  
*Veronica* spp.  
*Viburnum suspensum*

Germander  
Meadow Rue  
Veronica, Speedwell; Sunny Border  
Arrowood Viburnum

**Conifer and Hardwood Seedling Nurseries**

Endurance may be applied for residual preemergence weed control in conifer and hardwood seedling nurseries.

Endurance may be applied to conifer and hardwood seedling nurseries any time after the soil has settled around newly transplanted seedlings, liners, or bare root plants.

Apply Endurance at 1-2.3 lbs./A in fall and/or spring. Equivalent applications for smaller areas are 0.36-0.83 oz./1,000 sq. ft. 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 2.3 lbs./A.

**Southern Pine Seedbeds:** To assist in the establishment of Southern pine seedbeds, a preemergence application should be made just after seeding. Applications made after emergence of the pine seedlings should not be made until a minimum of three weeks after the time when most seedlings have shed their seedcoat. Pines are tolerant to preemergence and postemergence applications of Endurance.

**Dosage:** Apply 0.75 lb. (0.49 lb. active) of Endurance per broadcast acre. Mix with clean water at recommended concentration and apply at 20-40 psi in a minimum of 20 gals. of water per treated acre. Broadcast to beds and irrigate with approximately 1/2 inch of sprinkler irrigation.

**Hardwood Seedbeds:** Apply Endurance at a rate of 0.75-1.5 lbs. (0.49-0.98 lb. active) to the following seedlings that are at least 6 weeks old (from time of 50% germination):

- Oak (*Quercus* spp.)
- Sweetgum
- Green Ash

Use higher rate (1.5 lbs.) when a longer control period (3-4 months) is desired or under conditions of higher anticipated weed pressure. The lower rate (0.75) will provide 2-3 months of weed control. Broadcast to beds and irrigate with approximately 1/2 inch of sprinkler irrigation.

Most effective weed control will be obtained when Endurance is activated by at least 0.5 inch of rainfall or irrigation prior to weed seed germination and within 14 days following application.

Endurance may be tank mixed with Goal in conifer seedling nurseries for broader spectrum preemergence weed control. Refer to the use directions of tank mix partner herbicides for additional weeds controlled, rates and precautions.

18/23

**New Plantings, Replanting, and Crop Rotation**

If areas are to be seeded, do not apply Endurance until seeded plants are up and well established.

Nursery, landscape, or noncropland areas treated with Endurance should be rotated only to ornamental species listed on this label for 1 year following application unless the following test has shown species safety:

Before planting a species not listed on this label, it is recommended that several test strips of an indicator plant such as wheat, sorghum, or corn be sown into the treated area. If the indicator plants germinate and grow normally to a height of 12 inches with normal root development, it is safe to plant.

In areas disturbed by new plantings or replanting of labeled species, it may be necessary to retreat exposed soil to maintain satisfactory weed control.

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**STORAGE AND DISPOSAL**

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

**Storage**

Store in original container away from 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 and Plastic 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.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call 1-800-888-8372, day or night.

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**PRECAUTIONARY STATEMENTS**

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**Hazards to Humans and Domestic Animals**

**CAUTION**

Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Prolonged or frequently repeated skin contact, while mixing or handling the concentrated material, may cause allergic reactions in some individuals.

#### **Statement of Practical Treatment**

**If on skin:** Wash with soap and water. Rinse thoroughly.

**If inhaled:** Remove victim to clear air.

**If in eyes:** Flush thoroughly with water for several minutes. Contact a physician if irritation persists.

#### **Personal Protective Equipment**

##### **WPS Uses:**

Applicators and other handlers (other than mixers and loaders) who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR Part 170) -- in general, agricultural-plant uses are covered -- must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

##### **Mixers and Loaders must wear:**

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

**Non-WPS Uses:**

Mixers and loaders who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR Part 170) – in general, only agricultural-plant uses are covered by the WPS – must wear:

- Waterproof gloves

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Engineering Control Statements**

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

**User Safety Recommendations**

**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- After handling this product, immediately wash the outside of gloves before removing them, then remove gloves and all other PPE. Immediately wash thoroughly and change into clean clothing.

**Environmental Hazards**

This product has low solubility in water. At the limit of solubility, this product is not toxic to fish. However, at concentrations substantially 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 wash water.

Endurance®, Predict®, Princep®, and Vanquish® trademarks of Novartis

Arsenal® trademark of American Cyanamid Company

Firale® trademark of AgrEvo USA Company

32/23

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Goal® trademark of Rohm and Haas Company

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Syngenta Crop Protection, Inc.  
Greensboro, North Carolina 27409  
SCP 834C-M1C 0201

November 11, 1997 - changed Sandoz refs. to Novartis, corrected type of gloves for mixers/loaders based on 3/94 letter from EPA. (Text corresponds to Sandoz label approved 11/96) and Barricade Master label of 834M-LOB 0798

November 25, 1998 - new size of 10 lb. bag NCP 834C-M2 1198 - same text as previous label - as 834M-C1A 0798

February 2001 – Syngenta

March 6, 2003 – Correct error (remove reference to Maximum Use Rate table)

END 834C M1C 0201 – pd – 03/06/03

2/3/23

Syngenta Crop Protection, Inc.  
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www.syngenta.com



**FEDERAL EXPRESS**

March 6, 2003

Document Processing Desk (NOTIF)  
Office of Pesticide Programs (H7504C)  
U.S. Environmental Protection Agency  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202-4501

**SUBJECT: ENDURANCE® HERBICIDE  
ALTERNATE BRAND NAME FOR BARRICADE® 65WG HERBICIDE  
EPA REG. NO. 100-834  
NOTIFICATION TO CORRECT A REFERENCE TO A MAXIMUM  
APPLICATION RATE TABLE**

In accordance with PR Notice 98-10, Syngenta Crop Protection, Inc. is submitting notification for the subject product to correct a typographical error on the Endurance label. In the **Mixing and Application** section – **Footnote 1**, makes two references to rates in a **Maximum Application Rate Table**. The reference should refer the user to the **Use Rates** section, and we have corrected the label to direct the user to the **Use Rate** section. A copy of the label is attached with the correction highlighted.

To complete this notification, EPA Form 8570-1 is enclosed. If you have any questions, please contact me at 336-632-7442.

Sincerely,

Regulatory Product Manager

Enclosures

cc: Ms. Joanne Miller  
Mr. Eugene Wilson

Handwritten notes and stamps on the right side of the page, including a circular stamp and several lines of illegible text.