

PLEASE NOTE

This image contains more than one label approved for this product on this date.

Please read instructions on reverse before completing form.



United States Environmental Protection Agency Washington, DC 20460

Registration Amendment Other (checked)

OPP Identifier Number NOTIFICATION

Application for Pesticide - Section I

1. Company/Product Number: 100-879
2. EPA Product Manager: Joanne Miller
3. Proposed Classification: [X] None [] Restricted
4. Company/Product (Name): Barricade G Herbicide
5. Name and Address of Applicant: Syngenta Crop Protection, Inc.
6. Expedited Review: In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to:

Section - II

Amendment - Explain below. Resubmission in response to Agency letter dated. Notification - Explain below. Final printed labels in response to Agency letter dated. "Me Too" Application. Other - Explain below.

NOTIFICATION APR 13 2001

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. The following changes are being made via this notification: 1) Company name and address have been updated to reflect Syngenta Crop Protection, inc. 2) The Conditions of Sale and Warranty statement has been changed to reflect the name change. Because Syngenta has been formed by the merger of Novartis Crop Protection, Inc. and Zeneca Ag Products, we have chosen to use the former Zeneca warranty statement as the Syngenta warranty statement. No other changes occur in the statement other than the name change. 3) The copyright date reflects Syngenta. 4) Trademark statements have been updated to reflect Syngenta for those products for which Syngenta holds the trademark. 5) The Internet address has been changed to reflect Syngenta. 6) Other places in the label which referring to the company name have been updated.

Section - III

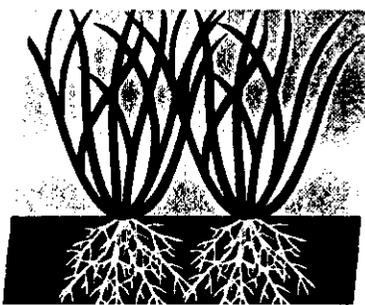
1. Material This Product Will Be Packaged In: Child-Resistant Packaging, Unit Packaging, Water Soluble Packaging, Type of Container, Location of Net Contents Information, Size(s) Retail Container, Location of Label Directions, Manner in Which Label is Affixed to Product

Section - IV

1. Contact Point: Name Nan S. Padgett, Title Label Group Leader, Telephone No. 336-632-7567. Certification: I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. 2. Signature: Nan S. Padgett, 3. Title: Label Group Leader, 4. Typed Name: Nan S. Padgett, 5. Date: April 2, 2001, 6. Date Application Received (Stamped):

PULL HERE TO OPEN ►

Barricade® G



HERBICIDE

For selective preemergence control of grass and broadleaf weeds in:

- established turf grasses (excluding golf course putting greens), lawns and sod nurseries
- container, field grown and landscape ornamentals
- conifer and hardwood seedling nurseries
- established perennial and wildflower plantings
- plants grown for cut foliage production
- 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 fencerows
- Christmas tree farms

Active Ingredient:
 Prodiamine
 (CAS No. 29091-21-2) 2.0%
 Other Ingredients: 98.0%
 Total: 100.0%

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements and statement of practical treatment at end of label.

EPA Reg. No. 100-879
EPA Est.

SCP 879A-L1A 0201

NET CONTENTS



NOTIFICATION

APR 13 2001

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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.

Barricade® G

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.

DIRECTIONS FOR USE

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

Barricade G is a selective preemergence herbicide that provides residual control of many grass and broadleaf weeds in:

- established turf grasses (excluding golf course putting greens), lawns and sod nurseries
- container, field grown and landscape ornamentals
- conifer and hardwood seedling nurseries
- established perennial and wildflower plantings
- plants grown for cut foliage production
- noncrop areas on or surrounding managed rights-of-way for transportation systems and utilities (including roadways, roadsides, railways and equipment yards)
- facilities including substations, tankfarms, pumping stations, parking and storage areas, and ungrazed fencerows
- Christmas tree farms

Barricade G controls susceptible weeds by inhibiting weed seeds germination and root development. Most effective weed control will be obtained when Barricade G is activated by at least 1/2 inch of rainfall or irrigation, or with shallow (1 to 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 Barricade G.

Do not apply aerially.

Do not apply to golf course putting greens.

APPLICATION DIRECTIONS

Apply uniformly with suitable, calibrated application equipment.

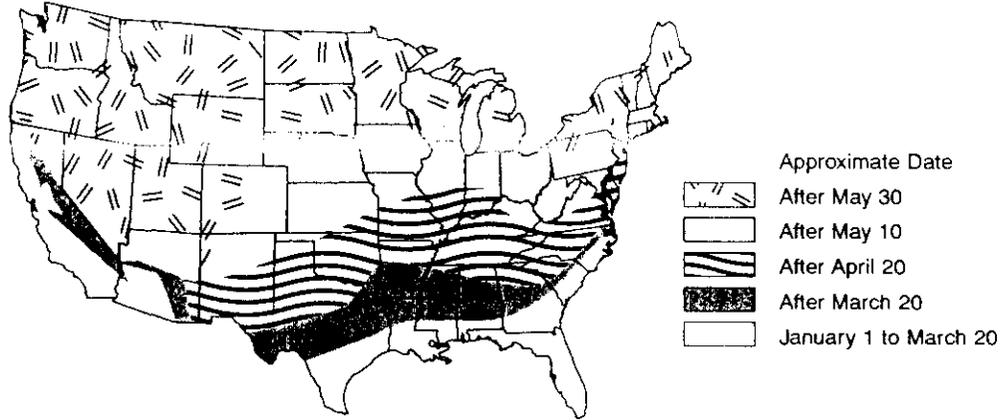
Barricade® G

ESTABLISHED TURF

Barricade G 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 Barricade G 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 Barricade G is activated by at least 1/2 inch of rainfall or irrigation prior to weed seed germination and within 14 days following application. See the map below for approximate crabgrass seed germination dates.

CRABGRASS SEED GERMINATION DATES



Use Precautions

The following precautions apply to the use of Barricade G in turf grasses and lawns:

1. Application of Barricade G may thin emerged annual bluegrass and newly overseeded grasses.
2. 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 Barricade G is applied before seedling secondary roots are in the second inch of soil, not thatch plus soil.
3. Do not cut (harvest) treated sod before 120 days after application. Do not apply to newly set sod until the following year.
4. Application of Barricade G to turf stressed by drought, low fertility, or pest damage may result in turf injury.
5. Disturbing the herbicide barrier with cultural practices such as disking may result in reduced weed control.
6. Do not apply Barricade G to putting greens or areas where dichondra, colonial bentgrass, velvet bentgrass, or annual bluegrass (*Poa annua*) are desirable species.

Rates of Application

Barricade G 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. Barricade G will not control established weeds.

Maximum Annual Rates

Maximum use rate selection should be based on turf species. The length of time of residual weed control provided by Barricade G is related to the rate applied.

Barricade G is recommended for use on the turf grass species listed in the following table. Use higher rates of Barricade G to achieve higher levels of weed control but do not exceed the maximum yearly rate specified in the following table.

Maximum Application Rate of Barricade G/Calendar Year by Turf Grass Species¹

Turf Species	lbs. product/A
Bermudagrass ² Bahigrass Centipedegrass Seashore Paspalum St. Augustinegrass Tall Fescue (including turf-type) Zoysia	75
Buffalograss Kentucky Bluegrass Perennial Ryegrass	50
Creeping Red Fescue	37
Creeping Bentgrass	33

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

² May be used on newly-sprigged or plugged Bermudagrass at rates not to exceed 26 lbs./A. Newly-sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded. Suppression only of Foxtail,

Barricade® G

Weeds Controlled

When used in accordance with this label Barricade G is approved for 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)	Spruce, Prostrate
Juncos	Witchgrass
Knotweed	Woodsorrel, Yellow (from seed)

¹ In many areas a single application of 33 to 75 lbs./A Barricade G will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season, most effective weed control may be obtained by making an initial application of 33 to 50 lbs./A followed after 60 to 90 days by a second application. Do not exceed the maximum rate for turf grass species listed in the **Maximum Application Rates Table** above.

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

³ Suppression only.

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

When to Apply After Overseeding Turf

Do not apply to overseeded turf within 60 days after seeding or until after the second mowing, whichever is longer. Injury to desirable seedlings is likely if Barricade G is applied before seedling secondary roots are in the second inch of soil, not thatch plus soil.

When to Overseed After Application

Barricade G 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.

Barricade G Rate (lbs./A)	Months Before Overseeding		
	North	Transition	South
Product			
25	4	4	4
33	5	4	4
37	6	5	5
40	—	6	6
50	—	7	7
57	—	—	9
65	—	—	10
75	—	—	12

CONTAINER, FIELD GROWN, AND LANDSCAPE ORNAMENTALS

Barricade G may be applied for residual preemergence weed control in the culture of ornamentals (including Christmas tree farms, established perennial and wildflower plantings).

Use Rates

Apply Barricade G at 33 to 75 lbs./A in fall and/or spring. Use higher rates of application for longer control periods. Sequential applications may be made so long as the total amount of product applied does not exceed the maximum annual application rate of 75 lbs./A.

APPLICATION TIMING AND INFORMATION

All Applications

Barricade G is a preemergence herbicide and will not control emerged weeds. Most effective weed control in ornamentals will be obtained when Barricade G is activated by at least 1/2 inch of rainfall or irrigation, or with shallow (1 to 2 inch) mechanical incorporation, prior to weed seed germination and within 14 days following application.

Best weed control is obtained when Barricade G is applied to soil free of clods, weeds, and debris such as leaves and mulch. Prior to application of Barricade G, control existing vegetation by hand weeding, cultivation or the use of an appropriate postemergence herbicide.

Apply Barricade G to dry foliage only. Overhead irrigation or rainfall soon after application will wash granules off of plant foliage and activate Barricade G in the soil.

Barricade* G

Established Container, Field Nursery Stock or Landscape Plants

Barricade G may be applied at any time to established container or field nursery stock as a broadcast or over-the-top application.

Newly-Transplanted Container or Field Nursery Stock

Barricade G may be applied to newly-transplanted container or field nursery stock. Delay application to allow soil to settle around new transplants and water thoroughly before applying Barricade G. Apply Barricade G 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.

Shadehouses and Uncovered Polyhouses

In addition to outdoor locations, Barricade G may be applied in shadehouses and uncovered polyhouses. Uncovered polyhouses must remain open for a minimum of 7 days and 2 irrigations totaling at least 1/2 inch of water after application.

Bare Ground Applications For Container Placement

Barricade G may be applied to soil (including mulch, gravel, wood chips, or other permeable bases) upon which containerized ornamentals are placed. Only shallow cultivation or hand weeding, if necessary, after application, should be performed so as to minimize exposure of untreated soil.

Tolerant Ornamental Species

Barricade G will not harm most trees, shrubs, vines, and flowers. The species listed below in Table 1 are tolerant to Barricade G. Barricade G is approved for application, except in California, to the species in Table 2. Barricade G may be applied over-the-top of the listed species.

When plants are under stress (such as heat, drought, or frost damage) some cultivars of listed plants may be sensitive to Barricade G.

Table 1. Tolerant Ornamental Species – All States

Scientific name	Common name
<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 artemisoides</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>Dodonea 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 kiautschowica</i>	Spreading Euonymus
<i>Fatsia japonica</i>	Japanese Aralia
<i>Forsythia intermedia</i>	Border Forsythia
<i>Forsythia viridissima</i>	Greenstem Forsythia
<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

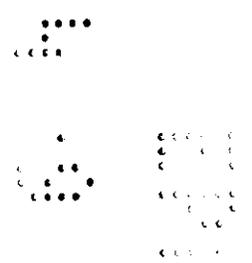
* Do not use on food producing trees, vines, or plants.

** Not for use on container grown plants.

Barricade® G

Scientific name	Common name
<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>Maleophora 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
<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>Raphiolepis indica</i>	Indian Hawthorne
<i>Rhododendron</i>	'Coral Belts'
(including <i>Azalea</i>)	'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>	Stoncrop
<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

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



Barricade® G

Scientific name	Common name
<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 trilobium</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*
<i>Weigela florida</i>	Old Fashioned Weigela
<i>Yucca aloifolia</i>	Spanish Bayonet
<i>Yucca filamentosa</i>	Yucca, Adam's Needle

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

Table 2. Tolerant Ornamental Species/Varieties – All States Except CA

Scientific Name	Common Name
<i>Abelia grandiflora</i>	Abelia; Sherwood
<i>Achillea</i> spp.	Yarrow; King Edward
<i>Agapanthus orientalis</i>	
<i>Akebia quintata</i>	Five-Leaf or Chocolate Vine
<i>Allium cernuum</i>	Lady's Leek, Nodding Onion
<i>Anemone hybrida</i>	Japanese Anemone
<i>Aquilegia</i> 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>Crocosmia</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 purpurea</i>	Coneflower, Purple; Magnus
<i>Forsythia suspensa</i>	Weeping Forsythia
<i>Gaillardia</i> spp.	Gaillardia, Blanket Flower; 'Goblin'
<i>Gaura</i> spp.	
<i>Gentiana dahurica</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
<i>Hosta plantaginea</i>	Hosta, Plantain Lily (Fragrant)
<i>Hosta sieboldiana</i>	Hosta, 'Searsucker'
<i>Houttuynia cordata</i> var. <i>variegata</i>	
<i>Hydrangea macrophylla</i>	Bigleaf Hydrangea
<i>Inula ensifolia</i>	
<i>Iris ensata</i>	Sword-Leaved Iris; Jodlesong
<i>Iris siberica</i>	Siberian Iris; Cabernet
<i>Juniperus davurica</i>	Parsoni
<i>Lagerstromia indica</i> X <i>fauriei</i>	Crape Myrtle; Tuscarora
<i>Lantana montevidensis</i>	Weeping Lantana
<i>Lavender</i> spp.	Lavender; Munstead
<i>Leontopodium alpinum</i>	Edelweiss
<i>Ligustrum sinense</i>	Chinese Privet; Variegata
<i>Lilium</i> spp.	Lily; Jazz
<i>Liriope muscari</i> var. <i>variegata</i>	Liriope, Variegated
<i>Liriope spicata</i>	Liriope, Creeping
<i>Lobelia cardinalis</i>	Cardinal Flower, Indian Pink
<i>Loropetalum chinense</i>	Burgundy

Barricade® G

Scientific Name	Common Name
<i>Lythrum</i> spp.	Loosestrife; Modern Pink
<i>Miscanthus sinensis</i>	Yaku Jima, Silberfeder
<i>Oenothera missouriensis</i>	Evening Primrose
<i>Osmanthus heterophyllus</i>	Osmanthus (False Holly); Gulf Tide
<i>Paeonia suffruticosa</i>	Tree Peony
<i>Pennisetum setaceum</i>	Fountain Grass (Dwarf)
<i>Perovskia atriplicifolia</i>	
<i>Physostegia virginiana</i>	Dragonhead, False, Vivid
<i>Quercus shumardii</i>	Oak, Shumard's Red
<i>Raphiolepis umbellata</i>	Yedda Hawthorne
<i>Rhododendron</i> (including <i>Azalea</i>)	'Delaware Valley White' 'Flame Creeper' 'Girard Crimson' 'George L. Tabor' 'Wakoleibin'
<i>Rudbeckia</i> spp.	'White Gumpo'
<i>Saxifraga</i> spp.	Black-Eyed Susan; Goldstrum
<i>Scabiosa</i> spp.	Saxifrage; Purple Dome
<i>Sedum caudicicola</i>	Pincushion Flower
<i>Sedum dasyphyllum</i>	Stoncrop; Lidakense
<i>Sedum spurium</i>	Stoncrop
<i>Spiraea bumalda</i>	Stoncrop; Dragon's Blood
<i>Syzygium paniculatum</i>	Spiraea; Anthony Waterer
<i>Teucrium</i> spp.	Australian Brushcherry
<i>Thalictrum dipterocarpum</i>	Germander
<i>Veronica</i> spp.	Meadow Rue
<i>Viburnum suspensum</i>	Veronica, Speedwell; Sunny Border Arrowood Viburnum

CONIFER AND HARDWOOD SEEDLING NURSERIES

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

Barricade G 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 Barricade G at 33 to 75 lbs./A in fall and/or spring. Use higher rates of application for longer control periods. Sequential applications may be made so long as the total amount of product applied does not exceed the maximum annual application rate of 75 lbs./A.

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 Barricade G.

Dosage: Apply 25 lbs. of Barricade G per broadcast acre. Broadcast to beds and irrigate with approximately 1/2 inch of sprinkler irrigation.

Most effective weed control will be obtained when Barricade G is activated by at least 1/2 inch of rainfall or irrigation prior to weed seed germination and within 14 days following application.

Hardwood Seedbeds: Apply Barricade G at a rate of 25 to 50 lbs. 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 (50 lbs.) when a longer control period (3 to 4 months) is desired or under conditions of higher anticipated weed pressure. The lower rate (25 lbs.) will provide 2 to 3 months of weed control. Broadcast to beds and irrigate with approximately 1/2 inch of sprinkler irrigation.

CUT FOLIAGE PRODUCTION

Barricade G may be applied for residual preemergence weed control in leatherleaf fern, (*Rumohra adiantiformis*), asparagus fern (aka treefern, *Asparagus virgatus*), *Pittosporum* species, *Euonymus* species, *Aspidistra* (*Aspidistra elatior*), and *Ruscus hypopyllum*.

Apply Barricade G to dry foliage only.

Apply Barricade G as a broadcast or directed treatment to established foliage production beds at a rate of 100 to 132 lbs./A in the fall followed by 66 to 100 lbs./A in the spring. The choice of rate should depend upon anticipated weed pressure and spectrum. Sequential applications may be made so long as the total amount of product applied does not exceed the maximum annual application rate of 198 lbs./A.

One half inch irrigation should be applied immediately following application to activate Barricade G in the soil and remove visible product residues.

Barricade® G

Application Precautions

Application of Barricade G directly to rapidly growing tissues or buds may cause deformation or injury. To reduce injury potential under these circumstances, immediately wash Barricade G from plant surfaces onto soil.

Do not apply to newly transplanted ferns until after the plants have become established and begin to grow.

Weeds Controlled

Florida Betony	<i>Stachys floridana</i>
Buttercup Oxalis	<i>Oxalis pes-caprae</i>
Crabgrass species	<i>Digitaria</i> spp.
Common Vetch	<i>Vicia sativa</i>

Weeds Suppressed

Wandering-Jew *Zebrina pendula*

VEGETATION MANAGEMENT

Barricade G 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, tankfarms, pumping stations, parking and storage areas, and ungrazed fencerows

Barricade G provides preemergence control of germinating weed seeds. Most effective weed control will be obtained when Barricade G is activated by at least 1/2 inch rainfall or irrigation, or shallow incorporation prior to weed seed germination and within 14 days following application.

Apply Barricade G at 33 to 75 lbs./A in fall and/or spring. 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 75 lbs./A.

NEW PLANTINGS, REPLANTING AND CROP ROTATION

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

Nursery, landscape, or noncropland areas treated with Barricade G 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.

STORAGE AND DISPOSAL

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 bags: 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.

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 mixing or handling the concentrated material, may cause allergic reactions in some individuals.

First Aid

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

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

If inhaled: Remove victim to clear air.

Barricade® G

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.

Barricade® trademark of Syngenta

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Syngenta Crop Protection, Inc.
Turf and Ornamental Products
Greensboro, North Carolina 27409
www.syngenta-us.com
SCP 879A-L1A 0201



This booklet manufactured using post-consumer, recycled paper.

NEXT

LABEL

Please read instructions on reverse before completing form.

	United States Environmental Protection Agency 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	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 _____	NOTIFICATION APR 13 2001
<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.)
 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. The following changes are being made via this notification: 1) Company name and address have been updated to reflect Syngenta Crop Protection, Inc. 2) The Conditions of Sale and Warranty statement has been changed to reflect the name change. Because Syngenta has been formed by the merger of Novartis Crop Protection, Inc. and Zeneca Ag Products, we have chosen to use the former Zeneca warranty statement as the Syngenta warranty statement. No other changes occur in the statement other than the name change. 3) The copyright date reflects Syngenta. 4) Trademark statements have been updated to reflect Syngenta for those products for which Syngenta holds the trademark. 5) The Internet address has been changed to reflect Syngenta. 6) Other places in the label which referring to the company name have been updated.

Section - III

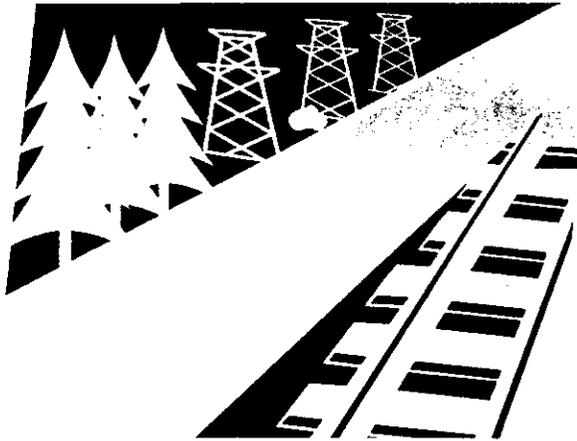
1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes* <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Metal	<input type="checkbox"/> Plastic
*Certification must be submitted		If "Yes" Unit Packaging wgt. No. per Container	If "Yes" Unit Packaging wgt. No. per container	<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container		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"/> Other _____ <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled					

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application)		
Name Nan S. Padgett	Title Label Group Leader	Telephone No. (Include Area Code) 336-632-7567
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 Label Group Leader	
4. Typed Name Nan S. Padgett	5. Date April 2, 2001	

2711

Endurance®



HERBICIDE

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
APR 13 2001

Active Ingredient:	
Proflaminate (CAS No. 29091-21-2)	65.0%
Other Ingredients:	35.0%
Total:	100.0%

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements on back of bag.

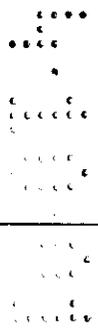
EPA Reg. No. 100-834

EPA Est. 62171-MS-001

SCP 834C-M1C 0201

10 POUNDS
NET WEIGHT

syngenta



3 8 11

Endurance®

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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.

DIRECTIONS FOR USE

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 crop use directions on this label and those on the product label apply. For more information, see the label.

Endurance®

- 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 aerially.

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 1,000 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	Henbit	Purslane, Common
Bluegrass, Annual (<i>Poa annua</i>)	Itchgrass	Pusley, Florida
Carpetweed	Johnsongrass (from seed)	Rescuegrass ³
Chickweed, Common	Junglerice	Shepherd's Purse ²
Chickweed, Mouseear (from seed)	Knotweed	Signalgrass, Broadleaf
Crabgrass (Large, Smooth)	Kochia	Speedwell, Persian
Crowfootgrass	Lambsquarter, Common	Sprangletop
Cupgrass, Woolly	Lovegrass	Spurge, Prostrate
Foxtails, Annual	Panicum, (Texas, Fall, Browntop)	Witchgrass
Goosegrass ¹	Pigweed	Woodsorrel, Yellow (from seed)

¹ In many areas a single application of 1-2.3 lbs./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 lbs./A followed after 60-90 days by a second application at doses that would not exceed those given in the **Maximum Application Rate Table**. Do not exceed the maximum rate for turf grass species listed in the **Maximum Application Rate Table** above.

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

³ Suppression only.

Sequential applications may be made so long as the total amount of product applied does not exceed the

Endurance®

VEGETATION MANAGEMENT

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.

Endurance®

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 post-emergent 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

Scientific Name	Common Name
<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 seloana</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
<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

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

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Scientific Name	Common Name
<i>Ilex vomitoria</i>	Yaupon Holly
<i>Iris</i> spp.**	Iris species**
<i>Jasminum 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 Lilyturf
<i>Lonicera japonica</i>	Japanese Honeysuckle
<i>Lonicera japonica</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 eliottii</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
<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>Raphiolepis indica</i>	Indian Hawthorne
<i>Rhododendron</i> (including Azalea)	'Coral Bells'
	'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

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

**Not for use on container grown plants.

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Scientific Name	Common Name
<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*
<i>Weigela florida</i>	Old Fashioned Weigela
<i>Yucca aloifolia</i>	Spanish Bayonet
<i>Yucca filamentosa</i>	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

Scientific Name	Common Name
<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>Crocosmia</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 purpurea</i>	Coneflower, Purple; Magnus
<i>Forsythia suspensa</i>	Weeping Forsythia
<i>Gaillardia</i> spp.	Gaillardia, Blanket Flower: 'Goblin'
<i>Gaura</i> spp.	
<i>Gentiana dahurica</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
<i>Hosta plantaginea</i>	Hosta, Plantain Lily (Fragrant)
<i>Hosta sieboldiana</i>	Hosta, 'Searsucker'
<i>Houttuynia cordata</i> var. <i>variegata</i>	
<i>Hydrangea macrophylla</i>	Bigleaf Hydrangea
<i>Inula ensifolia</i>	
<i>Iris ensata</i>	Sword-Leaved Iris; Jodlesong
<i>Iris siberica</i>	Siberian Iris; Cabernet
<i>Juniperus davurica</i>	Parsoni
<i>Lagerstromia indica x fauriei</i>	Crape Myrtle; Tuscarora
<i>Lantana montevidensis</i>	Weeping Lantana
<i>Lavender</i> spp.	Lavender; Munstead
<i>Leontopodium alpinum</i>	Edelweiss
<i>Ligustrum sinense</i>	Chinese Privet; Variegata
<i>Lilium</i> spp.	Lily: Jazz



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Scientific Name	Common Name
<i>Liriope muscari</i> var. <i>variegata</i>	Liriope, Variegated
<i>Liriope spicata</i>	Liriope, Creeping
<i>Lobelia cardinalis</i>	Cardinal Flower, Indian Pink
<i>Loropetalum chinense</i>	Burgundy
<i>Lythrum</i> spp.	Loosestrife; Modern Pink
<i>Miscanthus sinensis</i>	Yaku Jima, Silberfeder
<i>Oenothera missouriensis</i>	Evening Primrose
<i>Osmanthus heterophyllus</i>	Osmanthus (False Holly); Gulf Tide
<i>Paeonia suffruticosa</i>	Tree Peony
<i>Pennisetum setaceum</i>	Fountain Grass (Dwarf)
<i>Perovskia atriplicifolia</i>	
<i>Physostegia virginiana</i>	Dragonhead, False; Vivid
<i>Quercus shumardii</i>	Oak, Shumard's Red
<i>Rhaphiolepis umbellata</i>	Yedda Hawthorne
<i>Rhododendron</i> (including <i>Azalea</i>)	'Delaware Valley', 'A'
	'Flame Creeper'
	'Girard Crimson'
	'George L. Tabor'
	Wakeiebisu
	White Gumbo
<i>Rudbeckia</i> spp.	Black-Eyed Susan; Goldstrum
<i>Saxifraga</i> spp.	Saxifrage; Purple Dome
<i>Scabiosa</i> spp.	Pincushion Flower
<i>Sedum caudicola</i>	Stonecrop; Lidakense
<i>Sedum dasyphyllum</i>	Stonecrop
<i>Sedum spurium</i>	Stonecrop; Dragon's Blood
<i>Spiraea bumalda</i>	Spiraea; Anthony Waterer
<i>Syzygium paniculatum</i>	Australian Brushcherry
<i>Teucrium</i> spp.	Germander
<i>Thalictrum dipterocarpum</i>	Meadow Rue
<i>Veronica</i> spp.	Veronica, Speedwell; Sunny Border
<i>Viburnum suspensum</i>	Arrowwood 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.

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.

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

STORAGE AND DISPOSAL

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, as 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.

PRECAUTIONARY STATEMENTS

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.

Continued...

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PRECAUTIONARY STATEMENTS (continued)

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 waters.

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Syngenta Crop Protection, Inc.
Greensboro, North Carolina 27409
www.syngenta-us.com

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