

US ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDES PROGRAMS  
REGISTRATION DIVISION (TS-767)  
WASHINGTON, DC 20460

EPA REGISTRATION NO.

55947-167

DATE OF ISSUANCE

MAR 06 1996

TERM OF ISSUANCE

Conditional

NAME OF PESTICIDE PRODUCT

Barriade's herbicide

NOTICE OF PESTICIDE:

☒ REGISTRATION  
☐ REREGISTRATION

(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

PM 23

55947-167

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Landco Agro, Incorporated  
1500 East 16th Avenue  
Des Plaines, IL 60016

**NOTE:** Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is registered in accordance with FIFRA section 5(c)(7)(e) provided that you:

1. Submit Primary Eye Irritation studies (Guideline 61-4) for the two formulas represented on the Confidential Statement of Formula dated February 21, 1996 for this product.
2. Add the phrase "EPA Registration No. 55947-167" to the label before you release the product for shipment.
3. Submit five (5) copies of the final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 5(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

Joanne L. Hickey  
Product Manager (20)  
Registration Division  
Administrative Services Unit

**BEST AVAILABLE COPY**

☐ ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

DATE

MAR 06 1996

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

MAR 06 1996

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
55947-167

## BARRICADE<sup>®</sup> G Herbicide

### ACTIVE INGREDIENT:

Prodiamine, [N<sup>3</sup>,N<sup>3</sup>-Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-m-phenylenediamine]..... 2.0%

INERT INGREDIENTS: ..... 98.0%

TOTAL: ..... 100.0%

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 perennials & wildflower plantings
- plants grown for cut foliage production
- managed transportation and utility rights-of-way (including rail & equipment yards)
- public utility facilities including substations, tankfarms, pumping stations, parking & storage areas, and ungrazed fencerows

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

See next page for additional precautionary statements and  
statement of practical treatment.

EPA Reg. No. 55947-RAT  
EPA Est. No.

Net Contents:

Sandoz Agro, Inc.  
1300 E. Touhy Avenue  
Des Plaines, IL 60018

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### CAUTION

Causes moderate eye injury (irritation). Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact while handling the material may cause allergic reactions in some individuals.

#### Personal Protective Equipment (PPE):

##### WPS USES:

Applicators and other handlers:

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

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 Controls 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.

**STATEMENT OF PRACTICAL TREATMENT**

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

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

If inhaled: Remove victim to fresh air.

**ENVIRONMENTAL HAZARDS**

This product has low solubility in water. At the 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 washwaters.

## 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

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## USE PRECAUTIONS

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

Application of BARRICADE G may thin emerged annual bluegrass and newly overseeded grasses.

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

Do not cut treated sod before 120 days after application. Do not apply to newly set sod until the following year.

Application of BARRICADE G to turf stressed by drought, low fertility, or pest damage may result in turf injury.

Disturbing the herbicide barrier with cultural practices such as disking may result in reduced weed control.

Do not apply BARRICADE G to putting greens or areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (*Poa annua*) are desirable species.

**BARRICADE® G Herbicide (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 perennials & wildflower plantings
- plants grown for cut foliage production
- managed transportation and utility rights-of-way (including rail & equipment yards)
- public utility facilities including substations, tankfarms, pumping stations, parking & storage areas, and ungrazed fencerows

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 0.5 in of rainfall or irrigation, or with shallow (1 to 2 in) 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 this product through any type of irrigation system.

Do not apply aerially.

Do not apply to golf course putting greens.

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### Application Directions

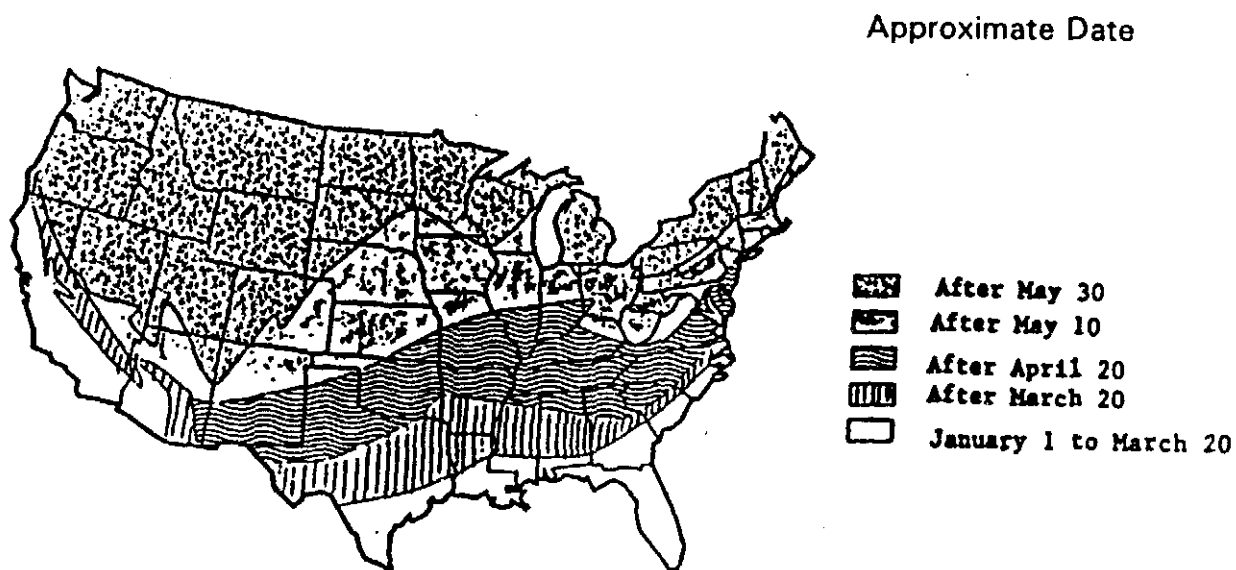
Apply uniformly with suitable, calibrated application equipment.

### 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 0.5 in 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



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### 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 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.

### Maximum Annual Rates

BARRICADE G is recommended for use on the turf grass species listed in the following table. Do not exceed the maximum yearly rate as given in the following table:

Maximum Application Rate/Calendar Year of BARRICADE G by Turf Grass Species <sup>1</sup>		
Turf Species	lbs. product/A	lbs. ai/A
Bermudagrass <sup>2</sup> Bahiagrass Centipedegrass Seashore Paspalum St. Augustinegrass <sup>3</sup> Tall Fescue (including turf-type) Zoysia	75	1.5
Buffalograss Kentucky Bluegrass Perennial Ryegrass	50	1.0
Creeping Red Fescue	37	0.75
Creeping Bentgrass	33	0.65

<sup>1</sup> These are the maximum rates per calendar year by species limitations.

<sup>2</sup> May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 26 lb/A. Newly sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded. Suppression only of Foxtail, Goosegrass and Rescuegrass due to reduced product rates used in sprigging situations.

<sup>3</sup> Use at an initial rate of 37 to 50 lb/A per application followed by sequential applications at doses that would not exceed the maximum annual application rate of 75 lb/A/yr.

- Use higher rates of BARRICADE G to achieve higher levels of fertility and weed control for each turf type, but do not exceed the maximum application rates specified in the Maximum Annual Rates Table.

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### Weeds Controlled

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

Barnyardgrass  
Bluegrass, Annual (*Poa annua*)  
Crabgrass (large, smooth)  
Crowfootgrass  
Cupgrass, Woolly  
Foxtails, Annual  
Goosegrass<sup>1</sup>  
Itchgrass  
Johnsongrass (from seed)  
Junglerice  
Lovegrass  
Panicum, (Texas, Fall, Browntop)  
Rescuegrass<sup>3</sup>  
Signalgrass, Broadleaf  
Sprangletop  
Witchgrass

Carpetweed  
Chickweed, Common  
Chickweed, Mouseear (from seed)  
Henbit  
Knotweed  
Kochia  
Lambsquarter, Common  
Pigweed  
Purslane, Common  
Pusley, Florida  
Shepherd's Purse<sup>2</sup>  
Speedwell, Persian  
Spurge, Prostrate  
Woodsorrel, Yellow (from seed)

<sup>1</sup> In many areas a single application of 33 to 75 lb/A of 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 lb/A followed after 60 to 90 days by a second application at doses that would not exceed those given in the **Maximum Annual Rate Table**. Do not exceed the maximum rate for turf grass species listed in the **Maximum Annual Rate Table** above.

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

<sup>3</sup> Suppression only.

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

### WHEN TO APPLY AFTER OVERSEEDING TURF

Do not apply to overseeded turf within 60 days after seeding or until after the second mowing, whichever is longer. Injury to desirable seedlings is likely if 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 (lb/A)		Interval Before Overseeding		
Product	ai	North	Transition	South
25	.50	4 mo	4 mo	4 mo
33	.66	5 mo	4 mo	4 mo
37	.74	6 mo	5 mo	5 mo
40	.80	---	6 mo	6 mo
50	1.00	---	7 mo	7 mo
57	1.14	---	---	9 mo
65	1.30	---	---	10 mo

## **CONTAINER, FIELD GROWN, & LANDSCAPE ORNAMENTALS**

(including Christmas Trees and Established Perennials and Wildflower Plantings)

BARRICADE G may be applied for residual preemergence weed control in the culture of ornamentals.

### **Use Rates**

Apply BARRICADE G at 33 to 75 lb/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 lb/A.

### **Application Timing and Information**

BARRICADE G may be applied to newly transplanted and established container or field nursery stock as a broadcast, over the top application. Irrigation or rainfall soon after application will wash granules off plant foliage and activate BARRICADE G in the soil.

Apply BARRICADE G to dry foliage only.

BARRICADE G may be applied at any time to established plants. 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.

In addition to outdoor locations, BARRICADE G may be applied in shadehouses and uncovered polyhouses. Uncovered polyhouses must remain open for a minimum of 30 days following treatment.

BARRICADE G may be applied to soil (including mulch, gravel, wood chips, or other permeable base) 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.

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 0.5 in of rainfall or irrigation, or with shallow (1 to 2 in) 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. Prior to application of BARRICADE G, control existing vegetation by hand weeding, cultivation or the use of an appropriate postemergence herbicide.

### Tolerant Ornamental Species

BARRICADE G will not harm most ornamental trees, shrubs and flowers. The species listed below are tolerant to BARRICADE G. Best results will be obtained when BARRICADE G is uniformly applied to the soil surface. BARRICADE G may be applied over the top of these species without injury.

Scientific name	Common name
<i>Abies</i> spp.	Fir species** (Balsam, Fraser, Noble, etc.)
<i>Acer palmatum</i>	Japanese Maple
<i>A. 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>Barberis gladyensis</i>	Barberry
<i>B. julianae</i>	Wintergreen Barberry
<i>B. mentorensis</i>	Mentor Barberry
<i>B. thunbergii</i>	Japanese Barberry
<i>B. 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>C. stolonifera</i>	American Dogwood
<i>Cortaderia selloana</i>	Pampas Grass
<i>Cotoneaster apiculatus</i>	Cranberry Cotoneaster
<i>C. buxifolius</i>	Cotoneaster
<i>C. dammeri</i>	Bearberry Cotoneaster
<i>C. microphyllus</i>	Rockspray Cotoneaster
<i>Cretaeus</i> spp.	Hawthorne
<i>Cupressus sempervirens</i>	Italian Cypress
<i>Delasperma alba</i>	White Trailing Ice Plant

\* Ornamental species only. Do not use on food producing trees or vines.

\*\* For use on field grown production or nursery stock and landscape ornamental sites.

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Scientific name

Common name

<i>Dodonea viscosa</i>	Hop Bush
<i>Elaeagnus pungens</i>	Silverberry
<i>Euonymus fortunei</i>	Wintercreeper
<i>E. japonica</i>	Japanese Spindle Tree (Evergreen Euonymus)
<i>E. kiautschovica</i>	Spreading Euonymus
<i>Fatsia japonica</i>	Japanese Aralia
<i>Forsythia intermedia</i>	Border Forsythia
<i>F. 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>I. crenata</i>	Japanese Holly
<i>I. opaca</i>	American Holly
<i>I. pernyi</i>	Holly
<i>I. vomitoria</i>	Yaupon
<i>Iris</i> spp.	Iris species**
<i>Jasminium nudiflorum</i>	Winter Jasmine
<i>Juniperus chinensis</i>	Chinese Juniper
<i>J. conferta</i>	Shore Juniper
<i>J. horizontalis</i>	Creeping Juniper
<i>Juglans</i> sp.	Walnut*
<i>Justicia brandegeana</i>	Shrimp Plant
<i>Lagerstromia indica</i>	Crepe Myrtle
<i>Ligustrum amurense</i>	Amur Privet
<i>L. japonicum</i>	Japanese Privet
<i>L. lucidum</i>	Glossy Privet (Waxleaf)
<i>Liriope muscari</i>	Big Blue Lily Turf
<i>Lonicera japonica</i>	Japanese Honeysuckle
<i>L. tatarica</i>	Tatarian Honeysuckle
<i>Magnolia</i> spp.	Magnolia species**
<i>Maleophora luteola</i>	Ice Plant
<i>Malus</i> sp.	Crabapple*
<i>Nandina domestica</i>	Heavenly Bamboo
<i>Narcissus</i> spp.	Narcissus species**
<i>Nerium</i> spp.	Oleander

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Scientific name

Common name

<i>Olea europaea</i>	Olive*
<i>Ophiopogon japonicus</i>	Mondo Grass
<i>Osteospermum fruticosum</i>	Trailing African Daisy
<i>Oxydenurum 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>P. canariensis</i>	Canary Island Pine
<i>P. elliottii</i>	Slash Pine
<i>P. halepensis</i>	Aleppo Pine
<i>P. nigra</i>	Austrian Black Pine
<i>P. palustris</i>	Longleaf Pine
<i>P. radiata</i>	Monterey Pine
<i>P. thunbergiana</i>	Japanese Black Pine
<i>P. strobus</i>	Eastern White Pine
<i>P. sylvestris</i>	Scotch Pine
<i>P. taeda</i>	Loblolly Pine
<i>P. virginiana</i>	Virginia Pine
<i>Pistachio</i> sp.	Pistachio*
<i>Pittosporum rhombifolium</i>	Queensland Pittosporum
<i>P. tobira</i>	Japanese Pittosporum
<i>Podocarpus macrophyllus</i>	Japanese Yew
<i>Prunus laurocerasus</i>	English Laurel
<i>Prunus</i> sp.	Almond, Apricot, Nectarine, Peach, Plum and Prune*
<i>Pseudotsuga menziesii</i>	Douglas Fir**
<i>Pyracantha coccinea</i>	Firethorn, Scarlet
<i>P. fortuneana</i>	Firethorn
<i>P. koidzumii</i>	Firethorn
<i>Pyrus</i> sp.	Bradford Pear sp.
<i>Quercus</i> spp.	Oak species
<i>Raphiolepis indica</i>	Indian Hawthorne

\* Ornamental species only. Do not use on food producing trees or vines.

\*\*For use on field grown production or nursery stock and landscape ornamental sitcc...

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Scientific name	Common name
<i>Rhododendron</i> (including Azalea)	'Coral Bells' 'Formosa' 'Hino-crimson' 'PJM' 'Roseum Elegans' Lady Bank's Rose Rosemary Leatherlea. Fern
<i>Rosa banksiae</i> <i>Rosmarinus officinalis</i> <i>Rumohra adiantiformis</i> <i>Santolina virens</i> <i>Sedum album</i> <i>Syzygium paniculatum</i> <i>Taxus cuspidata</i> <i>T. media</i> <i>Thuja occidentalis</i> <i>Trachelospermum asiaticum</i> <i>Tsuga canadensis</i> <i>Tulip</i> spp. <i>Viburnum japonicum</i> <i>V. odoratissimum</i> <i>V. plicatum</i> <i>V. rigidum</i> <i>V. tinus</i> <i>V. trilobium</i> <i>V. wrightii</i> <i>Vinca major</i> <i>Vinca minor</i> <i>Vitis</i> sp. <i>Weigela florida</i> <i>Yucca aloifolia</i> <i>Y. filamentosa</i>	Stonecrop Japanese Boxcherry Japanese Yew Yew American Arborvitae Star Jasmine Canada Hemlock Tulip species Japanese Viburnum Sweet Viburnum Japanese Snowball Canary Island Viburnum Laurustinus Cranberry Bush Leatherleaf Viburnum Vinca Dwarf Periwinkle Grape* Old Fashioned Weigela Spanish Bayonet Yucca, Adam's Needle

\*Ornamental species only. Do not use on food producing trees or vines.

### 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 lb/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 lb/A.

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

## CUT FOLIAGE PRODUCTION

BARRICADE G may be applied for residual preemergence weed control in the culture of 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 treatment to established foliage production beds at a rate of 100 to 132 lb/ A in the fall followed by 66 to 100 lb/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 lb/A.

One half inch irrigation should be applied immediately following application to activate BARRICADE G in the soil and to remove the granules off the foliage.

### Application Precautions

Application of BARRICADE G directly to apidly 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 appiy to newly transplanted ferns until after the plants have become established and begin to grow.

### Weeds Controlled

Florida Betony  
Buttercup Oxalis  
Crabgrass species  
Common Vetch

*Stachys flordana*  
*Oxalis pes-caprae*  
*Digitaria* spp.  
*Vicia sativa*

### Weeds Suppressed

Wandering-Jew

*Zebrina pendula*

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## VEGETATION MANAGEMENT

BARRICADE G may be applied to soil surfaces for preemergence control of many grass and broadleaf weeds in non-cropland areas on or surrounding:

- managed transportation and utility rights-of-way (including rail & equipment yards)
- public utility facilities including substations, tankfarms, pumping stations, parking & 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 0.5 in rainfall or irrigation, or shallow incorporation prior to weed seed germination and within 14 days following application.

Apply BARRICADE G at 33 to 75 lb/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 lb/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 non-cropland 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 maximal weed control.

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## **STORAGE AND DISPOSAL**

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

### **STORAGE**

Store in original container away from fertilizer, feed, or food stuffs and separated from other pesticides.

### **PESTICIDE DISPOSAL**

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### **CONTAINER DISPOSAL**

Paper containers: Completely empty container into application equipment. Then dispose of empty container in a sanitary landfill or at an incineration facility; or, if allowed by state and local authorities, by burning locally. If burned, stay out of smoke.

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## **LIMITATION OF WARRANTY AND LIMITATION OF LIABILITY**

**NOTICE:** Read this Limitation of Warranty and Limitation of 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.

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 weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Sandoz or seller. All such risks shall be assumed by buyer or user.

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