141 | 1 | 1995

Mr. Fred Thurner Howard Johnson's Enterprises, Inc. P.O. Box 2990 Milwaukee, WI 53201

Dear Mr. Thurner:

Subject: Crabgrass Preventer Plus with 0.20 Barricade

Preemergence Berbicide

EPA Registration No. 32802-65

Crabgrass Preventer Plus with 0.37 Barricade

Preemergence Herbicide

EPA Registration No. 32802-66

Crabgrass Preventer Plus with 0.58 Barricade

Preemergence Herbicide

EPA Registration No. 32802-67

Crabgrass Preventer Plus with 0.29 Barricade

Preemergence Herbicide

EPA Registration No. 32802-70

Application Dated November 8, 1994, Request To Update

Label to Match the Barricade P Label for EPA

Registration No. 55947-144

Your request to amend the labels of the subject pesticide registrations under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended, to reflect the Barricade F label has been reviewed and is acceptable under the Act provided that you:

 Revise the expression of dosage in footnote 1 under the listing of the section entitled: "Heeds Controlled", to give the dosages in a consistent order from low to high.

 Submit one (1) printed copy of the final printed label before releasing the product for shipment under the enclosed stamped label.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA,



Section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped compy of the label is enclosed for your records.

Sincerely yours,

Joanne I. Miller Product Manager (23) Pugnicide-Herbicide Branch Registration Division (7505C)

Enclosure

E.wilson:Diskette#15:01-09-95



12h /2000. 1-11-95 (C) (volton 110

CRABGRASS PREVENTER PLUS WITH .29 BARRICADE® PREEMERGENCE HERBICIDE

ACTIVE INGREDIENT:

Prodiamine: [N³,N³-Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-n.-

0.29%

Guaranteed Fertilizer Analysis:

32 % Nitrogen

Phosphorus 4 % (P₂O₅) Potassium (K₂O) 6 %

Nitrogen from: Urea formaldehyde, Urea, Ammonia

ACCEPTED with COMMENTS In EPA Letter Dated

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Under the Federal Insecticide. Fundicide and Rodenticide Act as membed for it, positivide registered agen. EP: Rep. No. 32802-20

For selective preemergence control of grass and broadleaf weeds in:

- established turf grasses (excluding golf course putting greens) and lawns
- landscape ornamentals (including perennial & wildflower plantings)

KEEP OUT OF REACH OF CHILDREN

CAUTION

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

Net Weight:

EPA Reg. No. 32802-70

EPA Est. No.

Howard Johnson's Enterprises Inc. P.O. Box 2990 Milwaukee, WI 53201

BARRICADE® is a Registered Trademark of Sandoz, Ltd.

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.

Statements 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

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This product has low solubility in water. At the limits of solubility, this product is not toxic to fish. However, at concentrations above the level of water solubility, it may be toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate water when disposing of equipment washwaters.

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STORAGE AND DISPOSAL

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

STORAGE

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

PESTICIDE DISPOSAL

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

CONTAINER DISPOSAL

<u>Plastic Containers</u>: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or; puncture and dispose of 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.

<u>Paper and plastic containers:</u> 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.

Fiber Drums: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residues into application equipment. Dispose of empty liner in a sanitary landfill or at an incineration facility if allowed by state and local authorities. If the drum cannot be reused, dispose of in a sanitary landfill or by incineration if allowed by state and local authorities.

DIRECTIONS FOR USE

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

This product is a selective preemergence herbicide that provides residual control of many grass and broadleaf weeds in turf grasses and landscapes. This product controls susceptible weeds by inhibiting weed seeds germination and root development. For most effective weed control this product must be incorporated by 0.5 inch of rainfall or irrigation. Incorporation should take place as soon as possible after application and should not be delayed past 14 days from the date of application.

Not for use on plants being grown (1) for sale or other commercial use, (2) for commercial seed production, or (3) for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in ornamental gardens or parks, or on golf courses or lawns and grounds.

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

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

Do not apply aerially.

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Do not apply to golf course putting greens.

Application Directions

Apply uniformly through suitable, calibrated commercial application equipment.

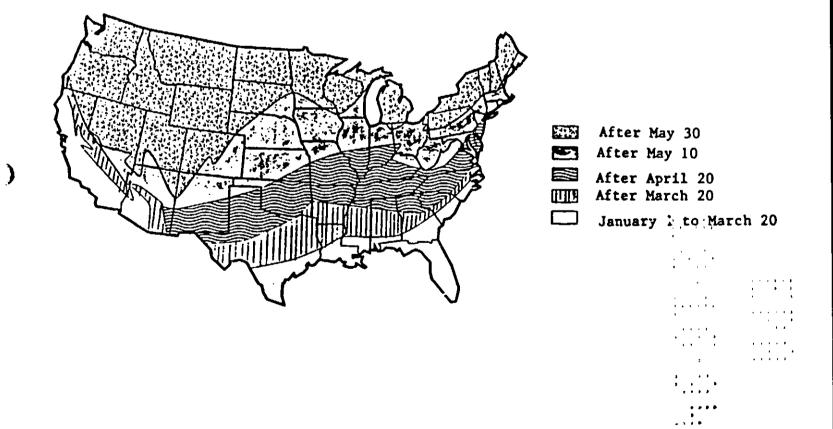
ESTABLISHED TURF

This product is a selective preemergence herbicide that, when properly applied, will control certain grass and broadleaf weeds in established turf grass and lawns. The species of turf grass determines the maximum amount of material that may be applied during a year.

Most effective weed control in turf grasses will be obtained when this product is activated by at least 0.5 inch of rainfall or irrigation within 14 days after application and prior to weed germination. See the map below for approximate crabgrass germination dates.

CRABGRASS SEED GERMINATION DATES

Approximate Date



Use Precautions

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

Application of this product may thin emerged annual bluegrass and newly over-seeded grasses.

Do not apply to OVERSEEDED TURF for 60 days after seeding or until after the second mowing, which ever is longer. Injury to desirable seedlings is likely if this product is applied before seedling secondary roots are in the second inch of soil, not thatch plus soil.

Do not apply to newly set sod until the following year.

Application of this product to turf stressed by drought, low lertility, or nest damage may result in turf injury.

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

Do not apply this product to putting greens or areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (<u>Poa annua</u>) are desirable species.

Maximum Annual Rates

This product should not be applied above a maximum annual rate of 1518 lb/A

Turf Species and Rates

For season long control this product may be applied as a single application, or if needed followed by a second application for increased length of control. The length of time of residual weed control provided by this product is related to the rate applied. Use the higher rate within the listed range for longer control. Longer control is desirable in areas where crabgrass germinates between January 1 and April 20 (See Crabgrass Seed Germination Data Map).

Select maximum use rate based on turf grass species. All applications must be made prior to germination of the target weed seeds. This product will not control established weeds.

Turf Species and Rates Table:

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| MAXIMUM RATE/CALENDAR YEAR of CRABGRASS PREVENTER PLUS WITH 29 BARRICADE PREEMERGENCE HERBICIDE by Turf Grass Species | | | | |
|---|-------------------------------------|-----------|--|--|
| Turf Species: | Ib CRABGRASS PREVENTER PLUS (:29)/A | lb a.i./A | | |
| Bermudagrass ² Bahiagrass Centipedegrass Seashore Paspalum Tall Fescue (including turf-type) Zoysia | . 518 | 1.5 | | |
| Buffalograss Kentucky Bluegrass Perennial Ryegrass | 345 | 1.0 | | |
| Creeping Red Fescue St. Augustinegrass | 255 | 0.75 | | |
| Creeping Bentgrass | 228 | 0.65 | | |

These are the maximum rate per calendar year by species limitations.

May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 179 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.

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- Do not apply more than 518 lb of this product per calendar year.
- Use higher rates of this product to achieve higher levels of fertility and weed control for each turf type.

Weeds Controlled

When used at the recommended rates (see Turf Species and Rates Table) this product will control:

Barnyardgrass
Bluegrass, Annual (<u>Poa annua</u>)
Crabgrass (large, smooth)
Foxtails, Annual
Goosegrass¹
Johnsongrass (from seed)
Rescuegrass³
Signalgrass, Broadleaf

Carpetweed
Chickweed, Common
Henbit
Knotweed
Lambsquarter, Common
Pigweed
Purslane, Common
Shepard's-purse²
Spurge, Prostrate
Woodsorrel, Yellow (from seed)

Do not exceed the maximum annual application rates recommended for the turf species. All applications must be made prior to germination of weed seeds. This product will not control established weeds.

In many areas a single application of 228 to 518 lb/A of this product will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season, make an initial application of 228 to 345 lb/A followed after 60 to 90 days by a second application of 290 to 179 lb/A, respectively, for season long goosegrass control. Do not exceed the maximum rate for turf grass species listed in the Maximum Annual rate Table above.

Winter weeds are best controlled by applications made prior to germination: late summer, fall or winter timings.

³ Suppression only.

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Overseeding/Reseeding

This product will inhibit the germination of turf species if overseeded/reseeded too soon after application. The interval between application and overseeding/reseeding is dependent on the application rate, soil temperature, and soil moisture. A shorter interval is possible if growing conditions are warm and wet, while a longer interval is needed if conditions are cool and dry.

Use the Overseeding/Reseeding Intervals Table below as a guide when choosing the appropriate overseeding/reseeding interval for each situation.

Overseeding/Reseeding Intervals Table:

| This Product Rate (lbs./A) | Overseeding/Reseeding Interval (months) Based Upon Seeding Method and Predominant Soil Conditions for the Season | | | | |
|-------------------------------|--|--------------|---------------|--------------|--|
| | Broadcast Seeding | | Drill Seeding | | |
| | Wet and Warm | Cool and Dry | Wet and Warm | Cool and Dry | |
| 179 | 4 | 6 | 3 | 4 | |
| 345 | 8 | 12 | 6 | 8 | |
| 518 | 12 | 18 | 9 | 12 | |

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LANDSCAPE ORNAMENTALS (including Perennial and Wildflower Plantings)

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

Use Rates

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Apply this product at 228 to 518 lb/A in fall and/or spring. Use the higher rate of application for longer control periods. Sequential or single applications are allowed so long as the total amount of product applied does not exceed the maximum annual application rate of 518 lb/A.

Application Timing and Information

Apply this product prior to weed seed germination to the soil surface surrounding established tolerant ornamentals listed below. Delay application to allow soil to settle around new transplants and water thoroughly before applying this product. Apply this product after cuttings form roots and become established.

This product is a preemergence herbicide and will not control emerged weeds. Most effective weed control in ornamentals will be obtained when this product is activated by at least 0.5 in of rainfall or irrigation, or with shallow (1 to 2 in) mechanical incorporation, before weed seeds germinate. Acceptable control will be obtained when this product is activated within 14 days after application.

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

Tolerant Ornamental Species

This product will not harm most established ornamental trees, shrubs and flowers. The species listed below are tolerant to this product. Best results will be obtained when this product is uniformly applied to the soil surface; avoid applying to ornamental shoots which may defeat the effort to get uniform distribution on the soil surface. This product may be applied over the top of these species without injury.

Scientific name

Common name

Acer palmatum

A. platanoides
Actinidia chinensis
Agapanthus africanus
Arctostaphylos densiflora
Arctotheca calendula
Aucuba japonica
Barberis gladwynensis

B. julianae
B. mentorensis
B. thunbergii
B. verruculosa
Buxus microphylla
Callistemon viminalis
Calluna vulgaris

Carpobrotus edulis
Cassia artemisoides
Ceanothus rigidus
Chamaecyparis pisifera
Cleyera japonica

Citrus spp.
Cornus florida
C. stolonifera
Cortaderia selloana
Cotoneaster apiculatus

C. buxifoliusC. dammeriC. microphyllusCretaegus spp.

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Cupressus sempervirens

Delasperma alba Dodonea viscosa Elaeagnus pungens Euonymus fortunei E. japonica

E. kiautschovica Fatsia japonica Forsythia intermedia

F. vıridissima

Gardenia jasminoides

Hedera helix

Hibiscus rosa-sinensis

Ilex cornuta
I. crenata
I. opaca
I. pernyi

Japanese Maple Norway Maple

Kiwi*

Lily-of-the-Nile Vine Hill Manzanita

Cape Weed

Japanese Aucuba

Barberry

Wintergreen Barberry Mentor Barberry Japanese Barberry Warty Barberry Japanese Boxwood Weeping Bottlebrush

Scotch Heather

Hottentot Fig (Ice Plant)

Feathery Cassia

Wild Lilac False Cypress

Cleyera

Citrus species*
Flowering Dogwood
American Dogwood

Pampas Grass

Cranberry Cotoneaster

Cotoneaster

Bearberry Cotoneaster Rockspray Cotoneaster

Hawthorne*
Italian Cypress

White Trailing Ice Plant

Hop Bush Silverberry Wintercreeper

Evergreen Euonymus Spreading Euonymus Japanese Aralia Border Forsythia

Greenstem Forsythia Gardenia, Cape-Jasmine

English Ivy

Chinese Hibiscus Chinese Holly Japanese Holly

American Holly

Holly

Scientific name

Common name

Jasminium nudiflorum Juniperus chinensis

J. conferta
J. horizontalis
Juglans sp.

Justicia brandegeana Lagerstromia indica Ligustrum amurense

L. japonicum
L. lucidum
Liriope muscari
Lonicera japonica
L. tatarica

Maleophora luteola

Malus sp.

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Nandina domestica

Olea europa

Ophiopogon japonicus Osteospermum fruticosum Oxydendrum arboreum

Persea americana Photinia fraseri Picea abies Pieris japonica Pinus brutia P. canariensis P. halepensis

P. nigra P. radiata

P. thunbergiana
P. strobus
P. sylvestris

Pistachio sp.

Pittosporum rhombifolium

P. tobira

Podocarpus macrophyllus Prunus laurocerasus

Prunus sp.

Pyracantha coccinea

P. fortuneana P. koidzumii Pyrus sp. Quercus rubra Raphiolepis indica Winter Jasmine Chinese Juniper Shore Juniper Creeping Juniper

Walnut*
Shrimp Plant
Crepe Myrtle
Amur Privet
Japanese Privet
Glossy Privet
Big Blue Lily Turf
Japanese Honeysuckle

Ice Plant Crabapple *

Heavenly Bamboo

Tatarian Honeysuckle

Olive*

Mondo Grass

Trailing African Daisy

Sourwood Avocado*

Frasier's Photinia Norway Spruce

Lily-of-the-Valley Shrub

Calabrian Pine
Canary Island Pine

Aleppo Pine

Austrian Black Pine

Monterey Pine

Japanese Black Pine Eastern White Pine

Scotch Pine Pistachio*

Queensland Pittosporum Japanese Pittosporum

Japanese Yew English Laurel

Almond, Apricot, Nectarine, Peach,

Plum and Prune*

Firethorn Firethorn Firethorn

Bradford Paar sp.

Red Oak

Indian Hawthorne

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

^{*}Ornamental species only. Do not use on food producing trees or vines.

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LINITATION 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 the manufacturer or selier. All such risks shall be assumed by buyer or user.

The manufacturer 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, under normal use conditions, subject to the risks described above. THE MANUFACTURER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. In no event shall the manufacturer or seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product.

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The manufacturer and seller offer this product, and buyer and user accept it, subject to the foregoing limitations of warranty and limitation of liability, which may not be modified by any oral or written agreement.