PM 23 32802-70 70-22-97 1966

Accepted stamp on p8. 60+6

OCT 22 1997

er. Thomas J. Scheit howard Johnson's Enterprises, Inc. 700 d. Virginia St., No. 222 Allwautes, WI 53204

Jear hr. Schult:

Craw, ross Preventer Plus with d. 10 Marricage Lucitetti. Proceetiquace herbicide hea sequetration No. 12802-05 crangrass Preventer Plus with U.37 Barricans freemergence Harbicide wer degistration do. 32502-66 with grade Preventer Plus with o.bs Earricade" ebiblicade done promotes ela neglation has 12002-61 Cracgrass Freventer blus with U.23 Batricaca" Prespersance derbicide erk augialization ho. 32002-76 ~ Application and Letter Dated June 24, 1997, Hequest to Aceno babelings by dating Label to Match Teat Accepted tor novartie' serricade" F Garnicide and Revising bling of Autail Container and Type of Containers

Your repost to asend the label of the subject pesticide product registration under the federal Insecticide, Pangicide and Rodent-loade Act (FIFA), as amended, to reflect the subject amendments has been reviewed and is acceptable under the Act, provided that your

- 1. Correct the address shows on all labels to reflect your address of record with this agency.
- 2. Correct the statement on the front panel that resds: "BARRICADE" is a Registered Tradesark of Sandoz, Inc." to read "BARRICADE" is a Registered Tradesark of Novartis Crop Protection, Inc.".

3. On labels for the 0.37% and J.50% active ingredient:

Under "Directions for Use" section correct the statement that reads: "Most effective weed control will be ..... by at least 0.5 inch of rainfall or irrigation, or with shallow (12 inches) incorporation, prior to weed seed germination and within 14 days following application." to read: "Most..... shallow (1 to 2 inches) .....application."

Certainly, you do not want 12 inches of shallow incorporation.

- 4. Correct foothore 1, for the "weed Controlled" section to reflect the correct dosages. In case of the 0.37% product the dosage should be 175 to 405 lbs/A.
- 5. On label for the 0.3/8 and 3.56% active ingrecient:
  - In the list of "lowerant Ornamental Species" <u>seranium cinereum</u> ... Cranescill was omitted or was clurred on the proposed labeling. Either acc this species to the list or omit it; if you wish to delete it, resubmit labeling reflecting your choice.
- to submit one (i) copy or your final printed labeling for each of these products before you release it for shipment under the proposed label, ratiecting the above comments.

It these conditions are not complied with, the registration will be subject to cancellation in accordance with FIPRA, section 6(e). Your release for snipment of the product constitutes acceptance of these conditions.

Stamped copies of labels are enclosed for your records.

Sincerely yours,

Joanne I. miller Product Manager (23)

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cclosures	CONCURRENCES + Cation Givision (75050)	
SYMBOL		
F 1	rodimine:100ρ:10-22-97	
DATE		
EPA Form 1320-1 (12.70)	OFFICIAL	EILE COPY

±6.5. SPO 1986-15--

## CRABGRASS PREVENTER PLUS WITH .29 BARRICADE® PREEMERGENCE HERBICIDE

FOR SELECTIVE PREEMERGENCE CONTROL OF GRASS AND BROADLEAF WEEDS IN LAWNS AND ORNAMENTAL TURF

(excluding golf course putting greens),

LANDSCAPE ORNAMENTALS, ESTABLISHED PERENNIALS AND WILDFLOWER PLANTINGS

ACTIVE INGREDIENT:

EPA Reg. No. 32802-70

EPA Est. No. 32802-WI-1 (A), 32802-MO-1 (B)

First letter of bag code shows establishment where manufactured. See tag attached to bag for fertilizer guaranteed analysis.

Manufactured by:

HOWARD JOHNSON'S ENTERPRISES, INC. 700 W. Virginia Street, Milwaukee, WI 53204-1548 BAPRICADE® is a registered trademark Novartis Crop Protection, Inc.

## KEEP OUT OF REACH OF CHILDREN

**CAUTION:** See back panel for further precautions and statement of practical treatment.

## 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 repeated skin contact with product may cause allergic reactions in some individuals.

STATEMENT OF PRACTICAL TREATMENT

<u>IF IN EYES</u>: Flush thoroughly with water for several minutes. Get medical attention if irritation persists.

IF ON SKIN: Wash with soap and water. Rinse thoroughly. Get r )cal attention if imitation persists.

JF\_INHALED: Remove person to fresh air.

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

**DIRECTIONS FOR USE:** It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Not for use on plants being grown for sale or other commercial use, for commercial seed production, or 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.

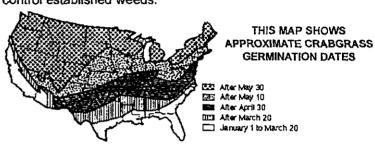
(Alternate wording for WPS exclusionary statement, for use when the product labeling contains only turf uses (ie when label is split to exclude the directions for use on ornamental sites:)

Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

This product is a selective preemergence herbicide that provides residual control of many grass and broadleaf weeds in established lawns and omamental turf (excluding golf course putting greens), landscape ornamentals and established perennials and wildflower plantings. It controls susceptible weeds by inhibiting weed seeds germination and root development. When used according to directions, it will control: barnyardgrass; bluegrass, annual (Poa annua); carpetweed; chickweed, common; chickweed, mouseear (from seed); crabgrass (large, smooth); crowfootgrass; cupgrass, woolly; foxtails, annual; goosegrass¹; henbit; itchgrass; johnsongrass (from seed); junglerice; knotweed; kochia; lambsquarter, common; lovegrass; panicum (Texas, fall, browntop); pigweed; purslane, common; pusley, Florida; rescuegrass³; shepard's purse³; signalgrass, broadleaf; speedwell, Persian; sprangletop; spurge, prostrate; witchgrass; woodsorrel, yellow (from seed).

¹ In many areas a single application of 5.2 to 11.9 pounds / 1000 square feet (225 to 518 pounds/acre) will control geosegrass. However, under heavy geosegrass pressure and/or an extended growing season, most effective weed control may be obtained with an initial application of 5.2 to 7.9 pounds / 1000 square feet (225 to 345 pounds/acre), followed after 60 to 90 days by a second application at doses that would not exceed the maximum annual rate (see "Minimum and Maximum Application Rate by Turfgrass Species" table in the Rates of Application section of this label). ² For this weed, apply in late summer, fall or winter prior to germination. ³ Suppression only.

WHEN TO APPLY TO ESTABLISHED TURF: This product must be applied prior to germination of weed seeds, as it will not control established weeds.



APPLICATION DIRECTIONS: Apply this product uniformly, using a suitable spreader that has been properly calibrated. Most effective weed control will be obtained when this product 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 after application.

**USE PRECAUTIONS:** The following precautions apply to the use of this product in turf grasses and lawns. Application of this product may thin emerged annual bluegrass and newly overseeded grasses. Do not apply to overseeded turf within 60 days after seeding or until after the second mowing, whichever is longer. Injury to desirable seedlings is likely if this product is applied before seedling secondary roots are in the second inch of soil (not thatch plus soil). Do not apply to newly set sod until the following year. Application to turf stressed by drought, low fertility, or pest damage may result in turf injury. Disturbing the herbicide barrier with cultural practices (such as core aeration) may result in reduced weed control. Do not apply to putting greens, or areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (Poa annua) are desirable species. Do not apply through any type of irrigation system. Do not apply aerially. Do not graze or feed livestock forage cut from treated areas.

RATES OF APPLICATION: in:s product is recommended for use on the turf grass species listed in the following table. The maximum amount of this product that may be applied per year is given for each turf grass species. Do not exceed the maximum yearly rate listed:

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MUNIXAM DIA MUMINIM	APPLICATION RATI	
Turf Species	Minimum Rate	Maximum Annual Rate <sup>1</sup>
Bahlagrass, Bermudagrass' Centipedegrass, Zoysiagrass Seashore Paspalum St. Augustinegrass Tall Fescue (including turf-type)	2.75 lbs / 1000 sq ft (120 lbs / acre)	11.9 lbs / 1000 sq ft per year (518 lbs / acre per year)
Buffalograss Kentucky Bluegrass Perennial Ryegrass	2.75 lbs / 1000 sq ft (120 lbs / acre)	7.9 lbs / 1000 sq ft per year (345 lbs / acre per year)
Creeping Red Fescue	2.75 lbs / 1000 sq ft (120 lbs / acre)	6 lbs / 1000 sq ft per year (260 lbs / acre per year)
Creeping Bentgrass	2.75 lbs / 1000 sq ft (120 lbs / acre)	5.2 lbs / 1000 sq ft per year (225 lbs / acre per year)

'These are the maximum rates per calendar year.

<sup>3</sup>May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 4.1 pounds / 1000 square feet (179 pounds/acre). Newly sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded. Suppression only of foxtail, goosegrass and rescuegrass due to reduced rates used in sprigging situations.

This product may be applied as a single application or in sequential applications to control weeds germinating throughout the year. 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. The length of time of residual weed control provided by this product is related to the rate applied. Use the higher rates listed for ger periods of weed control.

WHEN TO OVERSEED AFTER APPLICATION: This product will inhibit germination of turf seed if overseeded too soon after application. Follow rates and intervals in table for best overseeding/ reseeding results.

USE RATE	MONTHS	BEFORE OVE	RSEEDING
	North	Transition	South
2.75 pounds / 1000 sq ft. (120 pounds / acre)	4	4	4
5.2 pounds / 1000 sq ft. (225 pounds / acre)	5	4	4
6 pounds / 1000 sc ft (260 pounds / acre)	6	5	5
6.3 pounds / 1000 sq ft (275 pounds / acre)		6	6
7.9 pounds / 1000 sq ft (345 pounds / acre)		7	7
9 pounds / 1000 sq ft (393 pounds / acre)		_	9
10.3 pounds / 1000 sq ft (448 pounds / acre)		_	10
11.9 pounds / 1000 sq ft (518 pounds / acre)			12

	2.75 lbs	5.2 lbs	6 lbs	7.9 lbs	9 lbs	11.9 lbs
Spreader A	Х	Х	Х	Х	X	X
)		]	)		]	1
)						

(May contain additional spreader brands/models, spreader settings and spreader use instructions as appropriate for the product.)

LANDSCAPE ORNAMENTALS (including established perennials and wildflower plantings): This product may be applied for residual preemergence weed control in ornamentals. Apply at the rate of 5.2 to 11.9 pounds/1000 square feet (225 to 518 pounds/acre) 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 11.9 pounds/1000 square feet (518 pounds/acre) per year.

APPLICATION TIMING AND INFORMATION: This product may be applied to newly transplanted and established ornamentals a broadcast, over the top or directed application. Around new transplants, delay application to allow soil to settle and water thoroughly before applying. Apply 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. 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 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 applied to soil free of clods, weeds and debris such as leaves. Prior to application, control existing vegetation by hand weeding, cultivation or the use of an appropriate postemergence herbicide.

TOLERANT ORNAMENTAL SPECIES: This product will not harm most trees, shrubs, vines and flowers. The species listed below are tolerant to this product. Best results will be obtained when product is uniformly applied to the soil surface; avoid applying to ornamental shoots which may defeat the effort to get uniform distribution on the soil surface. This product may be applied over the top of these species. When plants are under stress (such as heat, drought or frost damage) some cultivars of listed plants may be sensitive to this product.

,	F
SCIENTIFIC NAME	COMMON NAME .Fir species** (Balsam, Frasier, Noble, etc.)
Abies spp	.Fir species** (Balsam, Frasier, Noble, etc.)
Abelia grandiflora	
Acer palmatum	
A. platanoides	
Achillea sp	
Actinidia chinensis	
Agapanthus africanus	.Lily-of-the-Nile (African Lily)
Agapanthus orientalis	
Akebia quintata	
	Lady's Leek, Nodding Onion
Anemonehydrida	
Aquilegia sp	
Arctostaphylos densifiora	
Arctotheca calendula	.Cape Weed
	.Wormwood; Silver Mound, Castle
	Aster: Bonnie Blue, Purple Dome
Aster X Frikartii	
Athrium Filiz-femina	
Aucuba japonica	
	.Fibrous Begonia: Hardy Grandis
Berberis gladwynensis	
B. Julianae	
B. mentorensis	
B. Thunbergli	
B. verruculosa	.Warty Barberry
Bergenla cordifolia	
Boltonia asteroides	.Snowbank
	.Butterfly-Bush (Dwarf Blue); Royal Red
Buxus microphylla	.Japanese Boxwood
Callistemon viminalis	.Weeping Bottlebrush
Calluna vulgaris	.Scotch Heather
Campanula carpatica	.Tussock Bellflower, (White Clips)
Campis X lagitabuana	Trumpet Flower, Madame Galen
Carpobrotus edulis	.Hottentot Fig (Ice Plant)
Cassia artemisoides	
Ceanothus rigidus	
Ceratostigma plumbagonoide	
Chamaecyparis pisitera	
Cleyera japonica	Cleyera
Citrus spp.	Citrus species"
	. Coreopsis (Calliopsis) Early Sunrise, Moonbeam
Cornus florida	
C. stolonifera	
Cortaderia selloana	
Cotoneaster apiculatus	
C. buxifolius	
C. dammeri	. Bearberry Cotoneaster
C. microphyllus	
Cretaegus spp	
Crocosmia sp	
Cupressus sempervirens .	
Delosperma alba	White Trailing Ice Plant
Delosperma sp	Cooperi Pir k

(Label for EPA Reg. No 32802-70, PAGE 2 OF 4)

Delphinium sp. . . . . Larkspur: Blue Elf

D. gratianopolitanus ......Cheddar Pink

Dianthus deltoides ........Dianthus; Maiden Pinks "Zing"

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Echinacea pupurea . . . . . . . Coneflower, Purple; Magnus E. kiautschovica . . . . . Spreading Euonymus Forsythia suspensa . . . . . . . . Weeping Forsythia Gardenia jasminoides . . . . . Gardenia, Cape-Jasmine Gaura so. Gentiana dahurica .......Gentian Geranium cinereum ......Cranesbill Gypsophilia repens ...... Baby's Breath Hedera helix ..... English Ivy Hellanthemum sp. . . . . . . . . Sunrose Hemerocallis sp. . . . . . Daylily: Axtec Gold, Stella de Oro, Tender Love Houttuynia cordata var. variegata Hydrangea macrophylla ....Bigleaf Hydrangea Inula ensifolia Ins spp. . . . . . . . . . Ins species\* Jasminium nudiflorum . . . . . Winter Jasmine Juniperus chinensis .......Chinese Juniper; Nick's Compact, Parsonnii J. conferta ...... Shore Juniper, Blue Pacific J. horizontalis . . . . . . . . . . . . . . . . . Creeping Juniper Lantana montevidensis . . . . Weeping Lantana Lavender sp. . . . . . . . . Lavender, Munstead Leonopodium alplnum . . . . Edelweiss Ligustrum amurense . . . . Amur Privet Ligustrum sinense . . . . . . . . . . Chinese Privet; Variegata Lillium sp. . . . . Lily; Jazz Liriope muscari . . . . . . . . . . . . . . . . . Big Blue Lily; Silver Mound, Evergreen Glant Linope muscari var. varlegata Liriope, Variegated Liriope spicata ...... Liriope, Creeping Lobelia Cardinalis ..... Cardinal Flower, Indian Pink Lonicera japonica ..... Japanese Honeysuckle L. tatarica ...... Tatarian Honeysuckle Lorapetalum chinense . . . . . . Burgundy Lythrum sp. . . . Loosestrife; Modern Pink Magnolia spp. . . . . Magnolia species Nandina domestica ... Heavenly Bamboo Narcissus spp. ... Narcissus species\*\* Nerium oleander ... Oleander Olea europaea ......Olive \* Ophiopogon japonicus .... Mondo Grass Osmanthus heterphyllus . . . . Osmanthus (False Holly): Gulf Tide Osteospermum fruticosum . . Trailing African Daisy Oxydendrum arboreum . . . . Sourwood Paeonia suffruticosa .... Tree Peony
Pennisetum setaceumi ... Fountain Grass (Dwarf) Perovskia atriplicifolia Photinia Fraseri . . . . . . . Frasier's Photinia (Redtip) Physotegia Virginiana . . . . . Dragonhead, False; Vivid 

Pinus brutia ................Calabrian Pine P. canariensis . . . . . . . . . . . . . . . . . Canary Island Pine P. nigra . . . . . . . . . Austrian Pine P. palustrus . . . . . . . Longleaf Pine P. strobus ...... Eastern White Pine P. sylvestris ...... Scotch Pine
P. taeda ..... Loblotly Pine P. Thunbergiana . . . . . . Japanese Black Pine Prunus laurocerasus . . . . English Laurel Prunus sp. ..... Almond, Apricot, Nectarine, Peach, Plum and Prune\* Pseudotsuga menzlesli . . . . . Douglas Fir\*\* Pyracantha coccinea . . . . . Firethorn (Scarlet) P. fortuneana ......Firethorn Quercus Shumardil . . . . . Oak, Shumard's Red Quercus spp. Oak species
Raphiolepsis Indica Indian Hawthorne Raphiolepsis umbellata . . . . Yedda Hawthorne Rhododendron ...... 'Coral Bells,' 'Formosa,' 'Hino-crimson,' 'PJM' (including Azalea) ... 'Delaware Valley White', 'Roseum Elegans,'
'Flame Creeper,' 'Glrard Crimson,' Wakeiebisu,'
'White Gumbo,' 'George L. Tabor' Rosa banksiae ...... Lady Bank's Rose Rosmarinus officinalis ..... Rosemary\* Rudbeckia sp. . . . . . . . . . . . . . . . . . Black-Eyed Susan; Goldstrum Santolina virens . . . . . . . Santolina Saxifraga sp. ............Saxifrage; Purple Dome Scabiosa sp. . . . . . . . Pincushlon Flower Sedum album .......Stonecrop
Sedum cauticola ......Stonecrop; Lidakense Sedum dasyphyllum . . . . . Stonecrop Sedum spurium . . . . . . Stonecrop; Dragon's Blood Spiraea burnalda .........Spirea: Anthony Waterer Syzygium paniculatum .....Australian Brushcherry Taxus cuspidata .........Japanese Yew T. media .....Yew Teucrium sp ..... Germander
Thalictrum diptercarpum ... Meadow Rue Thuja occidentalis ...... American Arborvitae Trachelospermum aslatum . Star Jasmine Tsuga canadensis . . . . . . . . . . Canada Hemlock Tulipa spp. . . . . . . . . . . Tulip species Veroniac sp. . . . . . . . . . . Veronica, Speedwell; Sunny Border Vibumum japonicum . . . . . Japanese Viburnum V. odoratissimum ......Sweet Viburnum V. plicatum ......Japanese Snowball Weigela florida .....Old Fashioned Weigela Yucca aloifolia .....Spanish Bayonet, Yucca Y. filametosa . . . . . . Adam's Needle Yucca \*Do not use on food producing trees, lines or plants. \*\*Not for use on container grown plan\*s

(Label for EPA Reg. No 32802-70, PAGE 3 OF 4)

Pieris japonica .......Lily-of-the-Valley Bush

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. <u>STORAGE</u>: Store in original container in a locked storage area out of reach of children and domestic animals.

<u>PESTICIDE DISPOSAL</u>: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

<u>CONTAINER DISPOSAL</u>: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

(Alternate wording for household use:)

<u>PESTICIDE DISPOSAL</u>: Securely wrap original container in several layers of newspaper and discard in trash.

<u>CONTAINER DISPOSAL</u>: Do not reuse bag. Fold empty bag and discard in trash.

GUARANTEE: This product is unconditionally guaranteed.

(Alternate wording for warranty statement:)

GREEN GUARANTEED: Your satisfaction is guaranteed when this product is used in accordance with instructions. If product per mance is less than satisfactory, seller will refund the full pu. ase price with evidence of purchase.

(Alternate wording for warranty statement;)

NOTICE: Buyer and user assumes all risks and liability of use, storage and/or handling of this product not in accordance with the terms of this label.

(Alternate wording for warranty statement:)

WARRANTY AND DISCLAIMER: Manufacturer/seller warrants that this product conforms to the ingredient statement on the label, and that the product is reasonably suited for the labeled use when applied according to directions. Buyer and user assumes all risks and liability of use, storage and/or handling of this product not in accordance with the terms of this label.

(Alternate wording for warranty statement:)

WARRANTY AND DISCLAIMER: Manufacturer/seller warrants that this product conforms to the ingredient statement on the label, and that the product is reasonably suited for the labeled us hen applied according to directions. No other warranty, exp. assed or implied, is made concerning the merchantability or fitness for a particular purpose. Manufacturer/seller's liability shall be limited to the purchase price of the product. In no case shall manufacturer/seller be liable for consequential or incidental damages or loss. Buyer and user assumes all risks and liability of use, storage and/or handling of this product not in accordance with the terms of this label.

(Alternate wording for warranty statement:)

WARRANTY AND DISCLAIMER: Manufacturer/seller warrants that this product conforms to the ingredient statement on the label, and that the product is reasonably suited for the labeled use when applied according to directions. No other warranty, expressed or implied, is made concerning the merchantability or fitness for a particular purpose. Manufacturer/seller's liability shall be limited to the purchase price of the product. In no case shall manufacturer/seller be liable for consequential or incidental damages or loss. Buyer and user assumes all risks and liability of use, storage and/or handling of this product not in accordance with the terms of this label. Products not accepted under these terms should be returned within 20 days in the original, unopened container for return of purchase price.

NET WEIGHT: 13.75 lbs (or 16.5, 18, 20.63, 27.5, 33, 50 lbs)

ACCEPTED
with COMMENTS
In EPA Letter Dated

OCT 22 1997

Under the Federal Insecticide, Fundicide, and Rodemicide Act as amended, for the posticide registered under EPA Reg. No.

(Label for EPA Reg. No 32802-70, PAGE 4 OF 4)