

## UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Janet P. Baguhn Howard Johnson's Enterprises, Inc. 700 W. Virginia Street #222 Milwaukee, WI 53204

FEB - 1 2010

Dear Ms. Baguhn:

SUBJECT: Label Amendment

Crabgrass Preventer Plus with .37 Prodiamine

EPA Registration No. 32802-66

Your Application Dated October 30, 2009

The label amendment referred to above, submitted in accordance with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable with the following provisions:

- 1. Under the "Optional Fertilizer Marketing Claims", remove "Increases efficiency...." claim unless you have data to support it (also "efficiency" is misspelled).
- 2. Add "to the extent permitted by applicable law..." to the appropriate sections of the warranty language, regardless of which option is used.

A stamped copy is enclosed for your records. Please submit one (1) copy of your final printed labeling before you release the product for shipment. This amended labeling supersedes all previously accepted ones.

Sincerely yours,

Kathryn V. Montague

Product Manager (23)

Herbicide Branch

Registration Division (7505P)

Enclosure

P. 2/5-

# CRABGRASS PREVENTER PLUS WITH .37 PRODIAMINE 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

STOPS MANY UGLY WEED GRASSES BEFORE THEY GROW PREVENTS CRABGRASS, ANNUAL BLUEGRASS, FOXTAIL & MORE ACTIVE INGREDIENT:

EPA Reg. No. 32802-66 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

NET WEIGHT: 16 lbs (or 18, 20, 25, 30, 36, 40, 50 or 60 lbs)

### KEEP OUT OF REACH OF CHILDREN

**CAUTION:** See back panel for further precautions and First Aid information.

#### 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.

**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.

## (Alternate wording for household use:) ENVIRONMENTAL HAZARDS:

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather will help to ensure that wind not blow pesticide off the treatment area. Sweeping any product that lands on a driveway, sidewalk, or street, back onto the treated area of the lawn or garden will help to prevent run off to water bodies or drainage systems.

#### **Guaranteed Analysis**

Total Nitrogen (N) Available Phosphate (P2O5) Soluble Potash (K2O) XX.XX% XX.XX% XX.XX%

Derived from:

Chlorine (CI), not more than XX.XX%

	First Aid
If in eyes	Hold eye open and rinse slowly and gently with water for 15-20 minutes.     Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.     Call a poison control center or doctor for treatment advice.
If on skin or clothing	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
If swallowed	Call a poison control center or physician immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or physician. Do not give anything by mouth to an unconscious person.
If inhaled	Move person to fresh air.     If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-tomouth, if possible.     Call a poison control center or doctor for further treatment advice.  Hot line number:

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Telecommunications Network at 1-800-858-7378.

# ACCEPTED with COMMENTS In EPA Letter Dated:

FEB - 1 2010
Under the Federal to cide,
Fungicide, and Rose and Act
as amended, for the pesticide
registered under EPA Reg. No.

32802-66

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.

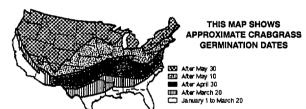
(Alternate wording for WPS exclusionary statement, for use when the product labeling contains only turf uses (ie when label is split to exclude the directions for use on ornamental sites:)

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

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; goosegrass; henbit; itchgrass; johnsongrass (from seed); junglerice; knotweed; kochia; lambsquarter, common; lovegrass; panicum (Texas, fall, browntop); pigweed; purslane, common; pusley, Florida; rescuegrass³; shepherd's purse2; signalgrass, broadleaf; speedwell, Persian; sprangletop; spurge, prostrate; witchgrass; woodsorrel, yellow (from seed).

'in many areas a single application of 3.2 to 9.3 pounds/1000 square feet (139 to 405 pounds/acre) will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season, most effective weed control may be obtained with an initial application of 3.2 to 6.2 pounds/1000 square feet (139 to 270 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). <sup>2</sup> For this weed, apply in late summer, fall or winter prior to germination.

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: This 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

MINIMUM AND MAKIMUI Turf Species	Minimum Rate	Maximum Annual Rate'		
Bahiagrass, Bermudagrass* Centipedegrass, Zoysiagrass Seashore Paspalum St. Augustinegrass Tall Fescue (Including turf-type)	3.2 lbs / 1000 sq ft (1.39 lbs / acre)	9.3 lbs / 1000 sq ft per year (405 lbs / acre per year)		
Buffalograss Kentucky Bluegrass Perennial Ryegrass	3.2 lbs / 1000 sq ft (139 lbs / acre)	6.2 lbs / 1000 sq ft per year (270 lbs / acre per year)		
Creeping Red Fescue	3.2 lbs / 1000 sq ft (139 lbs / acre)	4.6 lbs / 1000 sq ft per year (202 lbs / acre per year)		
Creeping Bentgrass	3.2 lbs / 1000 sq ft (139 lbs / acre)	4.0 lbs / 1000 sq ft per year (175 lbs / acre per year)		

maximum yearly rate listed:

These are the maximum rates per calendar year.

\*May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 3.3 pounds/1000 square feet (145 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 longer 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 OVERSEEDING			
	North	Transition	South	
3 pounds / 1000 sq ft (135 pounds / acre)	4	4	4	
4 pounds / 1000 sq ft (175 pounds / acre)	5	4	4	
4.6 pounds / 1000 sq ft (202 pounds / acre)	6	5	5	
4.9 pounds / 1000 sq ft (215 pounds / acre)		6	6	
6.2 pounds / 1000 sq ft (270 pounds / acre)	j	7	7	
7 pounds / 1000 sq ft (308 pounds / acre)			9	
8 pounds / 1000 sq ft (350 pounds / acre)			10	
9.3 pounds / 1000 sq ft (405 pounds / acre)	l		12	

	4 lbs	6 lbs	7.6 lbs	8.5 lbs	11.5 lbs	17.2 lb
Spreader A	X	×	X	X	Х	X

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 3.2 to 9.3 pounds/1000 square feet (139 to 405 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 9.3 pounds/1000 square feet (405 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.

Ligustrum amurense ...... Amur Privet SCIENTIFIC NAME COMMON NAME Ligustrum sinense Chinese Privet; Variegata
Ligaponicum Japanese Privet
Liucidum Glossy Privet (Waxleaf) Achillea spp. Yarrow: King Edward
Actinidia chinensis ... Kiwi\*
Agapanthus africanus ... Lily-of-the-Nile (African Lily) Agapanthus arricanus ...Liy-or-the-Nile (African Lily)
Agapanthus orientalis
Akebia quintata ...Five-Leaf or Chocolate Vine
Allium cernuum ...Lady's Leek, Nodding Onlon
Anemone hybrida ...Japanese Anenome
Aquilegia spp. ...Aquilegia: Red and Gold
Arctostaphylos densiflora ...Vine Hill Manzanita
Arctotheca calendula ...Cape Weed
Attempels spp. ... Lonicera Japonica Japanese Honeysuckle
L tatarica Tatarian Honeysuckle
Lorapetalum chinense Burgundy
Lythrum spp. Loosestrife; Modern Pink
Magnolia spp. Magnolia species\*\*
Maleophora luteola Ice Plant
Malus spp. Crabapple\*
Miscanthus sinensis Yaku Jima, Silberfeder
Nandina domestica Heavenly Bamboo
Narcissus spp. Narcissus species\*\*
Nerium oleander Oleander
Olea europaea Olive \* Nerum oleander ....... Oleander
Olea europaea ...... Olive \*
Ophiopogon japonicus .... Mondo Grass
Osmanthus heterphyllus ... Osmanthus (False Holly): Gulf Tide
Osteospermum fruttcosum ... Trailing African Daisy Oxydendrum arboreum ... Sourwood
Paeonia suffruticosa ... ... Tree Peony
Pennisetum setaceumi ... Fountain Grass (Dwarf) Perovskia atriplicifolia Perovskia atriplicifolia
Persea americana ........Avocado\*
Photinia Fraseri .......Frasier's Photinia (Redtip) P. sylvestris ......Scotch Pine P. taeda ............Loblolly Pine
P. Thunbergiana ......Japanese Black Pine P. virginiana ......Virginia Pine Cretaegus spp. ... Hawthorne
Crocosmia spp. ... Lucifer
Cupressus sempervirens ... Italian Cypress Prunus spp. . . . . . Almond, Apricot, Nectarine, Peach, Pium and Prune\* Cupressus sempervirens Italian Cypress
Delosperma alba White Trailing Ice Plant
Delosperma spp. Cooperi Pink
Delphinium spp. Larkspur: Blue Elf
Dianthus deltoides Dianthus; Maiden Pinks "Zing"
D. gratianopolitanus Cheddar Pink
Dodonea viscosa Hop Bush
Echinacea purpurea Coneflower, Purple; Magnus
Elaeagnus pungens Silverberry
Euonymus fortunei Wintercreeper
E. japonica Evergreen Euonymus
E. kiautschovica Spreading Euonymus
Fatsia japonica Japanese Aralia
Forsythia intermedia Border Forsythia
Forsythia suspensa Weeping Forsythia
F. viridissima Greenstem Forsythia
Gaillardia spp. Galllardia, Blanket Flower: "Goblin"
Gardenia jasminoides Gardenia, Cape-Jasmine
Gaura spp. Pseudotsuga menziesii .... .Douglas Fir\*\* Pyracantha coccinea . . . . . . Firethorn (Scarlet) Hellanthernum spp. Sunrose
Hemerocallis spp. Daylily: Aztec Gold, Stella de Oro, Tender Love
Hibiscus . Rose of Sharon\*\*
Hibiscus spp. Mallow: Disco Beile White
Hibiscus rosa-sinensis . Chinese Hibiscus
Hosta plantaginea . Hosta, Plantain Lily (Fragrant)
H. Sieboldiana . Hosta, "Seersucker"
Houttuynia cordata var. variegata
Hydrangea macrophylla . Bigleat Hydrangea
Ilex Bernyi . Holly
Ilex cornuta . Chinese Holly
I. crenata . Japanese Holly
I. opaca . American Holly
I. omitoria . Yaupon Holly, Schillings
Inula ensifolia
Iris ensata . Sword-Leaved Iris; Jodlesong Taxus cuspidata Japanese Yew
T. media Yew
T. Taxus cuspidata . . . . . . . . Japanese Yew Iris ensata Sword-Leaved Iris; Jodlesong
Iris siberica Siberian Iris; Cabernet
Iris spp. Iris species\*\* Jasminium nudiflorum ....Winter Jasmine
Juniperus chinensis ....Chinese Juniper; Nick's Compact, Parsonnii
J. conferta .....Shore Juniper; Blue Pacific 

Lantana montevidensis ....Weeping Lantana Lavender spp. ....Lavender; Munstead Leonopodium alpinum .....Edelweiss



#### STORAGE AND DISPOSAL

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

(wording for Commercial use label:)

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: Completely empty bag into application equipment. Nonrefillable container: Do not reuse or refill this container. Offer for recycling, if available. If not available 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:)

IF EMPTY: Nonrefillable container: Do not reuse or refill this container. Offer for recycling, if available. IF PARTLY FILLED: Call your local solid waste agency for disposal instructions. Never place any unused product down any indoor or outdoor drain or toilet.

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 performance is less than satisfactory, seller will refund the full purchase 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 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.

(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.

(Alternate wording for warranty statement:)
Warranty

The directions for use of this product are believed to be adequate and must 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 due to such factors as weather conditions, presence or absence of other materials, or the manner of use or application, all of which are beyond the control of Howard Johnson's Enterprises, Inc the manufacturer, or the seller.
To the extent consistent with applicable law, the products sold to you are furnished "as is" by Howard Johnson's Enterprises, Inc. The manufacturer and the seller are subject only to the manufacturer's warranties, if any, which appear on the label of the product sold to you. Except as warranted by this label Howard Johnson's Enterprises, Inc., the manufacturer, or the seller makes no warranties, guarantees, or representations of any kind to the buyer or the user, either express or implied, or by usage of trade, statutory or otherwise, with regard to the product sold or use of the product, including, but not limited to, merchantability, fitness for a particular purpose or use, or eligibility of the product for any particular trade usage. To the extent consistent with applicable law, Buyer's or user's exclusive remedy, and Howard Johnson's Enterprises, Inc the manufacturer's or the seller's total liability shall be limited to damages not exceeding the cost of the product. No agent or employee of Howard Johnson's Enterprises, Inc, or the seller is authorized to amend the terms of this warranty disclaimer or the product's label or to make a presentation or recommendation different from or inconsistent with the label of this product. To the extent consistent with applicable law, Howard Johnson's Enterprises, Inc, the manufacturer, or the seller shall not be liable for consequential, special, or indirect damages resulting from the use, handling, application, storage, or disposal of this product or for damages in the nature of penalties, and the buyer and the user waive any right that they may have to such damages.

(Optional wording required by some states in order to effect fertilizer registration:)

When soil testing or professional advice indicates the need for additional plant nutrients, make additional applications of fertilizer products over the growing season.

Information regarding the contents and levels of metals in this product is available on the internet at http://www.wa.gov/agr/

(Optional wording for use with fertilizer inert ingredients that cause staining:)

This product may stain driveways, walks, patios, pools, etc. Wash or sweep off thoroughly immediately after each use.

(Optional marketing statement when Barricade® is formulated in formula:)

Contains .37 BARRICADE® PREEMERGENCE HERBICIDE BARRICADE® is a registered trademark of Syngenta Crop Protection

#### **Optional Fertilizer Marketing Claims**

Contains slow release Nitrogen for extended greening

Contains slow release Nitrogen for extended feeding

Nitrogen for a lush green lawn

Phosphate improves root growth

Potassium Vital for growth & drought resistance

Super high Iron! for lush deep green color

Increases efficiency of natural soil elements including nitrogen, phosphate and potassium

with controlled release nitrogen

covers up to XXXXX square feet (per application)

Phosphate free fertilizer

#### Optional Marketing Claims

STOPS MANY UGLY WEED GRASSES BEFORE THEY GROW

3-5 month Weed Grass Control