

Howard Johnson's

# **CRABGRASS CONTROL PLUS** WITH 0.37% BARRICADE®

FOR SELECTIVE PREEMERGENCE CONTROL OF GRASS & BROADLEAF WEEDS IN LAWNS AND ORNAMENTAL TURF GRASSES (EXCLUDING GOLF COURSE PUTTING GREENS), LANDSCAPE ORNA-MENTALS, ESTABLISHED PERENNIALS & WILDFLOWER PLANTINGS. STOPS MANY UGLY WEED GRASSES BEFORE THEY GROW.

PREVENTS CRABGRASS, ANNUAL BLUEGRASS, FOXTAIL, & MORE.

ACTIVE INGREDIENT:

Prodiamine: [N3,N3-Di-n-propyl-2,4-dinitro-6-OTHER INGREDIENTS: ..... 99.63% 

EPA Reg. No. 32802-66

EPA Est. No. 59144-GA-1 (A), 32802-MO-1 (B), 37351-CO-1 (C), 8378-IN-1 (D), 9404-FL-1 (E)

First letter of bag code shows establishment where manufactured.

BARRICADE® is a registered trademark of Syngenta Crop Protection, Inc. Manufactured for: Howard Johnson's Enterprises, Inc. 9675 S 60th Street, Franklin, WI 53132

Read the entire "Directions for Use" and "Warrantly Statements" before using this product. If terms are not acceptable, return the unopended product container at once to the seller.

Agricultural Chemical: Do not ship or store with food, feed, drugs or clothing. For Chemical Spill, Leak, Fire or Exposure, Call CHEMTREC (800) 424-9300.

# KEEP OUT OF REACH OF CHILDREN CAUTION 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 However, at concentrations above the level of water solubility, it hay 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.

#### FIRST AID

- \* 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 of doctor for treatment advice

In on skin \* Take off contaminated clothing.

- or clothing \* Rinse skin immediately with plenty of water for 15-20 minutes
  - \* Call a poison control center or doctor for treatment advice.
- \* Call a poison control center or physician immediately for swallowed treatment advice
  - \* Have a 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-to-mouth, if possi
- \* Call a poison control center or doctor for further treatment

Hotline 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-

### **GUARANTEED ANALYSIS**

25-00-05

Total Nitrogen (N) 25% 25.00% Urea Nitrogen Soluble Potash (K2O) 5%

Derived From: MURIATE OF POTASH, UREA

Chlorine (CI), not more than 6.00%

> Item Number 100206793

# Net Weight 50 lbs (22.70 kg)

Information regarding the contents and levels of metals in this product is available on the internet at http://www.aapfco.org/metals.htm

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 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. This product is a selective preemergence herbicled that provides residual control of many grass and broadlaed weeds in established lawns and ornamental turf (excluding golf course putting greens), landscape ornamentals and established perennials and wildflower plantings. It controls susceptible weeds by inhibiting weed seeds gernination and root between the properties of the propertie

- In many areas where not prohibited by fertilizer use restrictions\*\* a single application of 4.1 to 9.3 pounds / 1000 square feet 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 4.1 to 6.2 pounds / 1000 square feet, areas not prohibited by fertilizer use restrictions, 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 table).
  For this weed, apply in late summer, fall or winter prior to germination.
- Suppression only
- \*\*Consult your State Cooperative Extension Service for current information on annual application limitations for lawn fertilizers in your region.

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

APPLICATION DIRECTIONS: Apply this product uniformly, using a suitable spreader that has been properly calibrated. Most effective week control will be obtained when this product is activated by at least 0.5 inch of rainfall or irrigation, or with shallow (1 to 2 inches) incorporation, prior to weed seed germination and within 14 days affer application.

In the State of Florida, this product should be applied at rates not exceeding those recommended in the document titled Best Management Practices for Protection of Water Resources in Florida, June 2002, Florida Green Industries.

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

Spreader setting to	apply at the listed Cone setting	rate (lbs p 3.0 lbs	er 1000 sq t 4.0 lbs	t) 4.6 lbs	6.2 lbs	9,3lbs	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
Accu-Pro 2000 SR2000 Lesco 021820 Spyker 76-22 PSB Bigfoot Lely HR Vicon 203	6 6 0.25 Closed A.5 II-B	L 1/2 L 1/2 D 1/2 4.3 J 1/2 5.25 15	M 1/2 N E 1/2 4.5 K 1/2 6 17	N 1/2 O 1/2 F 1/2 4.7 L 1/2 6.5 19	O 1/2 P G 1/2 4.9 M 7 21	Q 1/2 R I 1/2 5.5 N 1/2 8.5 27	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.  Apply only to actively growing turf. Do not apply near water, storm drains or drainage ditches. Do not apply if heavy rain is expected. Apply this product only to your lawn, and sweep any product that lands on the driveway, sidewalk,
Minimum and Maximum Application Rates (by Turf Grass Species)¹ Turf Species Minimum Rate Maximum Annual Rate²						or str to ob	eet back onto your lawn .Check with your local Cooperative Extension Agency tain specific information on local turf best management practices. Check with

VICOIT ECC		10 21
Minimum and Maximum Turf Species	n Application Rates (b Minimum Rate	y Turf Grass Species)¹ Maximum Annual Rate²
Bahiagrass², Centipedegrass³ Bermudagrass³, Zoysiagrass Seashore Paspalum St. Augustinegrass Tall Fescue (including turf-type)	2.7 pounds per 1000 sq. ft	9,3 pounds per 1000 sq. ft. per year
Buffalograss Kentucky Bluegrass Perennial Ryegrass	2.7 pounds per 1000 sq. ft.	6.2 pounds per 1000 sq. ft. per year
Creeping Red Fescue	2.7 pounds per 1000 sq. ft.	4.6 pounds per 1000 sq. ft. per year
Creeping Bentgrass	2.7 pounds per 1000 sq. ft.	4.0 pounds per 1000 sq. ft. per year

These are the maximum rates per calendar year.
In Florida: Do not exceed 2 applications per year to Bahiagrass and Centipedegrass in the north. do not exceed 3 applications per year to Centipedegrass in the central and south regions. Consult your State Cooperative Extension Service for current information on annual application limitations for lawn fertilizers in your region.
May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 3.3 to the property of the property of

nudagrass at rates not to exceed 3.3
Bernudagrass stolon rooting may be goosegrass and rescuegrass due to goosegrass and rescuegrass due to wildflower plantings): This product may be applied for residual preemergence wildflower plantings): This product may be applied for residual preemergence 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

Use Rate		Before Overs	
bs / 1000 sq ft	North	Transition	South
2.7 lbs	4	4	4
3 lbs	4	4	4
4 lbs	5	4	4
4.6 lbs	6	5	5
4.9 lbs		6	6
6.2 lbs		7	7
7 lbs		-	9
8 lbs			10
9.3 lbs			12

application rate of 9.3 lbs / 1000 square feet per year. application rate or 9.3 io 97 1000 square reet 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/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) mechanic 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 posternergence herbicide.

the maximum yearly rate listed:

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

your county or city government to determine if there are local regulations for fertilizer

APPLICATION LIMITS: Certain states have limits on application rates and

timing. Consult your local State Cooperative Extension Service for current information on application limits for turf/lawn fertilizers in your area.

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

This product may be applied as a single application or in sequential applications to

control weeks 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.

SCIENTIFIC NAME

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 on the soil surface. This product may be applied over the top of these species. When plants are under stress (such a sheat, drought or frost damage) some cultivars of listed plants may be sensitive to this product.

SCIENTIFIC NAME	COMMON NAME
Abies spp	Fir species** (Balsam, etc.)
Acer palmatum	Japanese Maple
A. platanoides	Norway Maple
Actinidia chinensis	Kiwi*
Agapanthus africanus	Lily-of-the-Nile (African Lily)
Arctostaphylos densiflora	Vine Hill Manzanita
Arctotheca calendula	Cape Weed
Aucuba japonica	Japanese Aucuba
Berberis gladwynensis	Barberry
B. julianae	Wintergreen Barberry Mentor Barberry
B, mentorensis B, thunbergii	Japanese Barberry
Buxus microphylla	Japanese Boxwood
Callistemon viminalis	Weeping Bottlebrush
Calluna vulgaris	Scotch Heather
Carpobrotus edulis	Hottentot Fig (Ice Plant)
Cassia artemisoides	Feathery Cassia
Ceanothus rigidus	Wild Lilac
Chamaecyparis pisifera	False Cypress
Cleyera japonica	Cleyera
Citrus spp.	Citrus species*
Comus florida	Flowering Dogwood
C. stolonifera	American Dogwood
Cortaderia selloana	Pampas Grass
Cotoneaster apiculatus	Cranberry Cotoneaster
C. buxifolius	Cotoneaster
C. dammeri	Bearberry Cotoneaster
C. microphyllus	Rockspray Cotoneaster
Cretaegus spp.	Hawthorne
Cupressus sempervirens	Italian Cypress
Delasperma alba	White Trailing Ice Plant
Delphinium spp. Dodonea viscosa	Larkspur, Blue Elf Hop Bush
	Silverberry
Elaeagnus pungens Euonymus fortunei	Wintercreeper
E. japonica	Evergreen Euonymus
E. kiautschovica	Spreading Euonymus
Fatsia japonica	Japanese Aralia
Forsythia intermedia	Border Forsythia
F. viridissima	Greenstem Forsythia
Gardenia jasminoides	Gardenia, Cape-Jasmine

Gardenia, Cape-Jasmine

Gardenia jasminoides

CIENTIFIC NAME	COMMON NAME
ledera helix libiscus rosa-sinensis ex cornuta	English Ivy Chinese Hibiscus Chinese Holly
crenata	Japanese Holly
opaca	American Holly Iris species**
is spp. asminium nudiflorum	Winter Jasmine
uniperus chinensis	Chinese Juniper
, conferta	Shore Juniper
. horizontalis	Creeping Juniper
uglans sp.	Walnut*
usticia brandegeana	Shrimp Plant
agerstromia indica	Crepe Myrtle
igustrum amurense	Amur Privet
. japonicum . lucidum	Japanese Privet
iriope muscari	Glossy Privet (Waxleaf) Big Blue Lily, Silver Mound
onicera japonica	Japanese Honeysuckle
. tatarica	Tatarian Honeysuckle
faleophora luteola	Ice Plant
falus sp.	Crabapple*
landina domestica	Heavenly Bamboo
lea europaea	Olive*
Ophiopogon japonicus	Mondo Grass
steospermum fruticosum	Trailing African Daisy
xydendrum arboreum	Sourwood
ersea americana Photinia fraseri	Avocado* Frasier's Photinia (Redtip)
ricea spp.	Spruce species**
icea spp. Pieris japonica	Lily-of-the-Valley Bush
inus brutia	Calabrian Pine
canariensis	Canary Island Pine
, halepensis	Aleppo Pine
P. nigra P. radiata	Austrian Pine
radiata	Monterey Pine
thunbergiana	Japanese Black Pine
e strobus e sylvestris	Eastern White Pine
, sylvestris	Scotch Pine Pistachio*
Pistachio sp. Pittosporum rhombifolium	Queensland Pittosporum
inosporum mombilolium	Queensiana Fittosporum
not contaminate w	rater food or feed by

DOILLITTE TO THE THE	
P. tobira	Japanese Pittosporum
Podocarpus macrophyllus	Japanese Yew
Prunus laurocerasus	English Laurel
Prunus sp.	Almond, Apricot, Nectarine
	Peach, Plum and Prune*
Pyracantha coccinea	Firethorn (Scarlet)
P. fortuneana	Firethorn
P. koidzumii	Firethorn
Pyrus sp.	Bradford Pear sp.
Quercus spp.	Oak species
Raphiolepsis indica	Indian Hawthome
Rhododendron	'Coral Bells'
(including Azalea)	'Formosa,' 'Hino-crimson,'
,	'PJM', 'Roseum Elegans'
Rosa banksiae	Lady Bank's Rose
Rosmarinus officinalis	Rosemary
Santolina virens	Santolina
Sedum album	Stonecrop
Syzygium paniculatum	Japanese Brushcherry
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	Leatherleaf Viburnum
Vinca major	Greater Periwinkle, Vinca
Vinca minor	Common Periwinkle, Vinc
Vitis sp.	Grape*
Weigela florida	Old Fashioned Weigela
Yucca aloifolia	Spanish Bayonet, Yucca
Y. filamentosa	Adam's Needle, Yucca
*Do not use on food produc	ing trace vince or plante
**Not for use on container	aroug plants
Not for use on container	grown plants.

COMMON NAME

### STORAGE AND DISPOSAL: Do not contaminate water, food, or feed by storage or disposal.

<u>PESTICIDE STORAGE:</u> Store in original container in a locked storage area out of réach 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. 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.

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 mannier of use of application, all of which are beyond the control of howard otherwises, inc the manufacturer, or the seller, and the seller are subject only to the manufacturer was retartiles, 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 warrantiles, guarantees, or representations of any kind to the buyer or the use, either express or implied, or by usage of trade, statutory or otherwise, with regard to the product sold or use of the product injudicing, but not limited to, merchantability, fitness for a particular purpsec or use, or elibibility 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 of the seller is authorized to the product of the product. We agent or employee of Howard Johnson's Enterprises, inc of the seller is authorized to the product of the product of the product. We agent or employee of Howard Johnson's Enterprises, inc of the seller is authorized to the product of the product of