

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 ORNAMENTALS, 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-(trifluoromethyl)-m-phenylenediamine] . . . 0.37%

INERT INGREDIENTS: 99.63%

TOTAL: 100.00%

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. BARRICADE® is a registered trademark of Syngenta Crop Protection, Inc.

Manufactured by:

Howard Johnson's Enterprises, Inc.

700 W. Virginia St., Milwaukee, WI 53204

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

GUARANTEED ANALYSIS

Spreader setting to apply at the listed rate (lbs per 1000 sq ft)	Cone setting					
	3.0 lbs	4.0 lbs	4.6 lbs	6.2 lbs	9.3lbs	
Accu-Pro 2000	6	L 1/2	M 1/2	N 1/2	O 1/2	Q 1/2
SR2000	6	L 1/2	N	O 1/2	P	R
Lesco 021820	0.25 Closed	D 1/2	E 1/2	F 1/2	G 1/2	I 1/2
Spyker 76-22		4.3	4.5	4.7	4.9	5.5
PSB Bigfoot	A.5	J 1/2	K 1/2	L 1/2	M	N 1/2
Lely HR	II-B	5.25	6	6.5	7	8.5
Vicon 203		15	17	19	21	27

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 seeding 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.

Turf Species	Minimum and Maximum Application Rates (by Turf Grass Species) ¹	
	Minimum Rate	Maximum Annual Rate
Bahiagrass, Centipedegrass Bermudagrass ² , Zoysiagrass Seashore Paspalum St. Augustinegrass Tall Fescue (including turf-type)	4 pounds per 1000 sq. ft	9.3 pounds per 1000 sq. ft. per year
Buffalograss Kentucky Bluegrass Perennial Ryegrass	4 pounds per 1000 sq. ft.	6.2 pounds per 1000 sq. ft. per year
Creeping Red Fescue	4 pounds per 1000 sq. ft.	4.6 pounds per 1000 sq. ft. per year
Creeping Bentgrass	4 pounds per 1000 sq. ft.	4.0 pounds per 1000 sq. ft. per year

Use Rate lbs / 1000 sq ft	Months Before Overseeding		
	North	Transition	South
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

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/ reseeded results.

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 4 to 9.3 lbs / 1000 square feet 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 lbs / 1000 square feet 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.

SCIENTIFIC NAME	COMMON NAME	SCIENTIFIC NAME	COMMON NAME	SCIENTIFIC NAME	COMMON NAME
Abies spp	Fir species** (Balsam, etc.)	Hedera helix	English Ivy	P. tobira	Japanese Pittosporum
Acer palmatum	Japanese Maple	Hibiscus rosa-sinensis	Chinese Hibiscus	Podocarpus macrophyllus	Japanese Yew
A. platanoides	Norway Maple	Ilex cornuta	Chinese Holly	Prunus laurocerasus	English Laurel
Actinidia chinensis	Kiwi*	I. crenata	Japanese Holly	Prunus sp.	Almond, Apricot, Nectarine Peach, Plum and Prune*
Agapanthus africanus	Lily-of-the-Nile (African Lily)	I. opaca	American Holly	Pyracantha coccinea	Firethorn (Scarlet)
Arcostaphylos densiflora	Vine Hill Manzanita	Iris spp.	Iris species*	P. fortuneana	Firethorn
Arctotheca calendula	Cape Weed	Jasminium nudiflorum	Winter Jasmine	P. korizumii	Firethorn
Aucuba japonica	Japanese Aucuba	Juniperus chinensis	Chinese Juniper	Pyrus sp.	Bradford Pear sp.
Berberis gladywensis	Barberry	J. conferta	Shore Juniper	Quercus spp.	Oak species
B. juliana	Wintergreen Barberry	J. horizontalis	Creeping Juniper	Raphiolepis indica	Indian Hawthorne
B. mentorensis	Mentor Barberry	Juglans sp.	Walnut*	Rhododendron	'Coral Bells'
B. thunbergii	Japanese Barberry	Justicia brandegeana	Shrimp Plant	(including Azalea)	'Formosa,' 'Hino-crimson,' 'PJM', 'Roseum Elegans'
Buxus microphylla	Japanese Boxwood	Lagerstromia indica	Crepe Myrtle	Rosa banksiae	Lady Bank's Rose
Callistemon viminalis	Weeping Bottlebrush	Ligustrum amurense	Amur Privet	Rosmarinus officinalis	Rosemary
Calluna vulgaris	Scotch Heather	L. japonicum	Japanese Privet (Waxleaf)	Santolina virens	Santolina
Carpobrotus edulis	Hottentot Fig (Ice Plant)	L. lucidum	Glossy Privet	Sedum album	Stonecrop
Cassia artemisioides	Feathery Cassia	L. luridum	Big Blue Lily, Silver Mound	Syzgium paniculatum	Japanese Brushcherry
Ceanothus rigidus	Wild Lilac	L. tatarica	Japanese Honeysuckle	Taxus cuspidata	Japanese Yew
Chamaecyparis pisifera	False Cypress	L. tatarica	Tatarian Honeysuckle	T. media	Yew
Cleyera japonica	Cleyera	Maleophora luteola	Ice Plant	Thuja occidentalis	American Arborvitae
Citrus spp.	Citrus species*	Malus sp.	Crabapple*	Trachelospermum asiaticum	Star Jasmine
Cornus florida	Flowering Dogwood	Nandina domestica	Heavenly Bamboo	Tsuga canadensis	Canada Hemlock
C. stolonifera	American Dogwood	Olea europaea	Olive*	Viburnum japonicum	Japanese Viburnum
Cortaderia selloana	Pampas Grass	Ophiopogon japonicus	Mondo Grass	V. odoratissimum	Sweet Viburnum
Cotoneaster apiculatus	Cranberry Cotoneaster	Osteospermum fruticosum	Trailing African Daisy	V. plicatum	Japanese Snowball
C. buxifolius	Cotoneaster	Oxydendrum arboreum	Sourwood	V. rigidum	Canary Island Viburnum
C. dammeri	Bearberry Cotoneaster	Persea americana	Avocado*	V. tinus	Laurustinus
C. microphyllus	Rockspray Cotoneaster	Photinia fraseri	Frasier's Photinia (Redtip)	V. trilobium	Cranberry Bush
Cretaeus spp.	Hawthorne	Picea spp.	Spruce species**	V. wrightii	Leatherleaf Viburnum
Cupressus sempervirens	Italian Cypress	Pieris japonica	Lily-of-the-Valley Bush	Vinca major	Greater Periwinkle, Vinca
Delasperra alba	White Trailing Ice Plant	Pinus brutia	Calabrian Pine	Vinca minor	Common Periwinkle, Vinca
Delphinium spp.	Larkspur, Blue Elf	P. canariensis	Canary Island Pine	Vitis sp.	Grape*
Dodonea viscosa	Hop Bush	P. halepensis	Aleppo Pine	Weigela florida	Old Fashioned Weigela
Elaeagnus pungens	Silverberry	P. nigra	Austrian Pine	Yucca aloifolia	Spanish Bayonet, Yucca
Euonymus fortunei	Wintercreeper	P. radiata	Monterey Pine	Y. filamentosa	Adam's Needle, Yucca
E. japonica	Evergreen Euonymus	P. thunbergiana	Japanese Black Pine		*Do not use on food producing trees, vines or plants.
E. kiautschovica	Spreading Euonymus	P. strobus	Japanese White Pine		**Not for use on container grown plants.
Fatsia japonica	Japanese Aralia	P. sylvestris	Scotch Pine		
Forsythia intermedia	Border Forsythia	Pistachio sp.	Pistachio*		
F. viridissima	Greenstem Forsythia	Pittosporum rhombifolium	Queensland Pittosporum		
Gardenia jasminoides	Gardenia, Cape-Jasmine				

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. **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. 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. 00872A

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.

KEEP OUT OF REACH OF CHILDREN

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.

First Aid	
If in eyes	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

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. This product is a selective preemergence herbicide that provides residual control of many grass and broadleaf 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 germination and root development. When used according to directions, it will control: baryardgrass; 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; rescuegrass; shepherd's purse; signalgrass, broadleaf; speedwell, Persian; sprangletop; spurge, prostrate; witchgrass; woodsorrel, yellow (from seed).

¹ In many areas a single application of 4 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 to 6.2 pounds / 1000 square feet, 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).

² For this weed, apply in late summer, fall or winter prior to germination.

³ Suppression only.

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.