



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 (N,N'-Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-m-pyrenediamine) 0.37%
 OTHER INGREDIENTS: 99.63%
TOTAL: 100.00%

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 "Warranty Statements" before using this product. If terms are not acceptable, return the unopened 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 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	* 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.
In 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 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 possible. * Call a poison control center or doctor for further treatment advice.

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 1-800-858-7378.

GUARANTEED ANALYSIS

12-0-3

Total Nitrogen (N) 12%
 12.00% Urea Nitrogen
 Soluble Potash (K₂O) 3%

Derived From: Muriate of Potash, Urea

Chlorine (Cl), not more than 6.00%

F315

Bulk Denisty 373
 Item Number FGB49495
 100206178

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 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: barnyardgrass; bluegrass; annual (*Poa annua*); carpetweed; chickweed, common; chickweed, mouseear (from seed); crabgrass (large, smooth); crowfootgrass; cugrass; woolly; foxtails; annual; goosegrass¹; henbit; itchgrass; johnsongrass (from seed); junglerice; knotweed; Kochia; lambsquarter, common; lovegrass; panicum (Texas, fall, browntop); pigweed; purslane, common; pusley, Florida; rescuegrass²; shepherd's purse³; signalgrass, broadleaf; speedweed, Persian; sprangletop; spurge, prostrate; witchgrass; woodsorrel, yellow (from seed).

¹ 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, to 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).

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

³ 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 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 to 2 inches) incorporation, prior to weed seed germination and within 14 days after 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 seeding secondary roots are in the second inch of soil (not thatch plus soil).

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		L 1/2	N	O 1/2	P	R
Lesco 021820	0.25	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		IL-B	5.25	6	6.5	7
Vicon 203			15	17	19	21

Do not apply to newly set sod until the following year. Application to turf stressed by drought, low fertility, or past 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. 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, or street back onto your lawn. Check with your local Cooperative Extension Agency to obtain specific information on local turf best management practices. Check with your county or city government to determine if there are local regulations for fertilizer use.

Minimum and Maximum Application Rates (by Turf Grass Species)¹

Turf Species	Minimum Rate (by Turf Annual Rate) ²	Maximum Annual Rate ²
Bahiagrass ³ ; Centipedegrass ³ ; Bermudagrass ³ ; Zoysiagrass ³ ; Seashore Paspalum ³ ; St. Augustinegrass ³ ; Tall Fescue (including turf-type)	2.7 pounds per 1000 sq. ft.	9.3 pounds per 1000 sq. ft. per year
Buffalograss ³ ; Kentucky Bluegrass ³ ; Perennial Ryegrass ³	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

¹ These are the maximum rates per calendar year.
² 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.
³ May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 3.3 lbs / 1000 square feet. 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.

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

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 inhibition of the tissue. 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.

NOTICE: This product contains chemical known to the State of California to cause cancer and birth defects and other reproductive harm.

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	Norway Maple	Hibiscus rosa-sinensis	Chinese Hibiscus	Podocarpus macrophyllus	Japanese Yew
A. platanoides	Kiwi ¹	Ilex cornuta	Chinese Holly	Prunus laurocerasus	English Laurel
A. chinensis	Lily-of-the-Nile (African Lily)	I. crenata	Japanese Holly	Prunus sp.	Almond, Apricot, Nectarine
Agapanthus africanus	Vine Hill Manzanita	I. opaca	American Holly		Peach, Plum and Prune ²
Arctostaphylos densiflora	Cape Weed	Iris spp.	Iris species**	Pyracantha coccinea	Firethorn (Scarlet)
Arctotheca calendula	Japanese Aucuba	J. japonica	Winter Jasmine	P. fortuneana	Firethorn
Aucuba japonica	Barberry	Juniperus chinensis	Chinese Juniper	P. koizumii	Firethorn
Berberis glaucowynensis	Berberis	J. conferta	Chinese Juniper	Pyrus sp.	Bradford Pear sp.
B. julianae	Wintergreen Barberry	J. horizontalis	Creeping Juniper	Quercus spp.	Oak species
B. mentorensis	Mentor Barberry	Juglans sp.	Walnut ³	Rhododendron	Indian Hawthorne
B. thunbergii	Japanese Barberry	Justicia brandegeana	Shrimp Plant	Rhododendron	'Coral Bells'
C. latifolia	American Dogwood	Lagerstromia indica	Chinese Flowering Crape	(including Azalea)	'Formosa', 'Hino-crimson,' 'PJM', 'Roseum Elegans'
Callistemon viminalis	Weeping Bottlebrush	Ligustrum amurense	Amur Privet		Lady Bank's Rose
Calluna vulgaris	Scott's Heather	L. japonicum	Japanese Privet	Rosa banksiae	Rosemary
Carpoprotus edulis	Hottentot Fig (Ice Plant)	L. lucidum	Glossy Privet (Waxleaf)	Rosmarinus officinalis	Santolina
C. australis	Festuary Cassia	L. lindum	Big Blue Yew, Silver Mound	Santolina virens	Stonewort
Ceanothus rigidus	Wild Lilac	L. nitidum	Japanese Honeysuckle	Sedum album	Stonewort
Chamaecyparis pisifera	Cypress species*	L. tatarica	Tatarian Honeysuckle	Syzgium paniculatum	Japanese Brushcherry
Cleyera japonica	Cyperus species*	Malephora luteola	Ice Plant ⁴	Taxus cuspidata	Japanese Yew
C. vitifolia	Cyperus species*	Maius sp.	'Crabapple' ⁵	T. media	Yew
Cornus florida	Flowering Dogwood	Nandina domestica	Heavenly Bamboo	Thuja occidentalis	American Arborvitae
C. stolonifera	American Dogwood	Olea europaea	Olive ⁶	Trachelospermum asiaticum	Star Jasmine
Cortaderia selloana	Pampas Grass	Ophiopogon japonicus	Mondo Grass	Ysuga canadensis	Canada Hemlock
Cotoneaster apiculatus	Cranberry Cotoneaster	Oxyspermum fruticosum	Trailing African Daisy	Viburnum japonicum	Japanese Viburnum
C. dammeri	Barberry Cotoneaster	Oxydendrum arboreum	Sourwood	V. odoratissimum	Sweet Viburnum
C. microphyllus	Rockspray Cotoneaster	Persea americana	Avocado ⁷	V. plicatum	Japanese Snowball
C. rotundifolius	Hawthorne	Phytolitia fraseri	Frasier's Phytolitia (Redtip)	V. rugidum	Canary Island Viburnum
C. stolonifera	Italian Cypress	Picea spp.	Spruce species	V. tinus	'Auratus'
C. tomentosus	Wild Trailing Ice Plant	P. canadensis	Lily-of-the-Valley Bush	V. trilobum	Cranberry Bush
Delphinium spp.	Larkspur, Blue Elf	P. brutia	Calabrian Pine	V. virginii	Leatherleaf Viburnum
Dodonaea viscosa	Hop Bush	P. canariensis	Canary Island Pine	V. wrightii	Greater Periwinkle, Vinca
Elaeagnus pungens	Silverberry	P. halensis	Aleppo Pine	V. vinca minor	Common Periwinkle, Vinca
Euonymus fortunei	Winterreeper	P. nigra	Austrian Pine	Vitis sp.	Grape
E. japonica	Evergreen Euonymus	P. radiata	Monterey Pine	Weigela florida	Old Fashioned Weigela
E. alatus	Spreading Euonymus	P. thunbergiana	Japanese Black Pine	Yucca aloifolia	Spanish Bayonet, Yucca
Fatsia japonica	Japanese Aralia	P. strobus	Eastern White Pine	Yucca filamentosa	Adam's Needle, Yucca
Forsythia intermedia	Border Forsythia	P. sylvesteris	Southern Yellow Pine	Yucca sp.	'*Do not use on food producing trees, vines or plants.
F. viridissima	Greenstem Forsythia	Pistachio sp.	Pistachio		'*Not for use on container grown plants.
Gardenia jasminoides	Gardenia, Cape-Jasmine	Pittosporum rhombifolium	Queensland Pittosporum		

STORAGE AND DISPOSAL: Do not contaminate water, food, or feed by storage or disposal.
PESTICIDE 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. 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 manner of use or application, all of which are beyond the control of Howard Johnson's Enterprises, Inc. The manufacturer, or the seller, is not liable for damages resulting from the use of this product. 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, guaranties, 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 the 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. or 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 make any presentation or representation or to make a warranty or disclaimer on the product's label or to make a presentation or representation with respect to 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.