

32017

Crabgrass Control

Hi-Yield®

# Crabgrass Control



- A Selective Preemergence Herbicide For Control Of Crabgrass And Most Other Annual Weed Grasses On Turfgrass And Golf Courses In Established: Bahiagrass, Bermudagrass, Bluegrass (Perennial), Centipedegrass, Fescue, Ryegrass (Perennial), St. Augustinegrass, Zoysiagrass, Bentgrass Fairways And Other High Cut Bentgrass Areas.
- Season Long Crabgrass Control

**ACTIVE INGREDIENTS:**

benefin: <i>N</i> -butyl- <i>N</i> -ethyl- $\alpha,\alpha,\alpha$ -trifluoro-2,6-dinitro- <i>p</i> -toluidine ..	1.33%
trifluralin- $\alpha,\alpha,\alpha$ -trifluoro-2,6-dinitro- <i>N,N</i> -dipropyl- <i>p</i> -toluidine....	0.67%
<b>OTHER INGREDIENTS:</b> .....	98.00%
<b>TOTAL:</b> .....	100.00%

Contains 1 pound active ingredient per 50 pound bag

KEEP OUT OF REACH OF CHILDREN

## CAUTION

Refer to back panel of bag for

First Aid Statements, Precautionary Statements, and Directions for Use.

Notice: Read entire label. Use only according to label directions. Before using this product, read Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies on back panel. If Terms are unacceptable, return at once unopened.

AGRICULTURAL CHEMICAL: DO NOT SHIP OR STORE WITH FOOD, FEEDS, DRUGS, OR CLOTHING.

In case of emergency endangering health or the environment involving this product Call 1-800-992-5994.

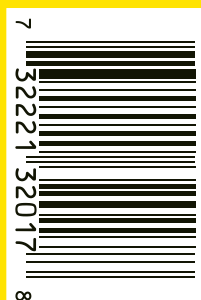
NET WEIGHT 9 LBS. (4.09 KG)

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# Crabgrass Control

## 32017



**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

**Caution: Causes moderate eye irritation. Harmful if swallowed or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals.**

Avoid contact with eyes, skin, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Remove and wash contaminated clothing before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

**All loaders, applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
  - Shoes plus socks
  - Chemical resistant gloves made of any waterproof material
- Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS**

- Users should:
- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
  - Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
  - Remove PPE immediately after handling this product. Wash outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**FIRST AID**

**IF SWALLOWED:** Call poison control center or doctor 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 doctor. Do not give anything by mouth to an unconscious person.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call poison control center or doctor for treatment advice.

**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. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-992-5994 for emergency medical treatment information.

**ENVIRONMENTAL HAZARDS**

This pesticide is extremely toxic to freshwater marine, and estuarine fish and aquatic invertebrates including shrimp and oyster. Do not apply in a manner that will directly expose canals, lakes, streams, ponds, marshes or estuaries to aerial drift. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

Application Restrictions: Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. This product must be watered in as soon as possible after application. Entry Restrictions: Do not enter or allow other people (or pets) to enter the treated area until dusts have settled. Except for personnel involved in the watering-in, do not enter or allow other people or pets to enter the treated area until the watering-in is complete and the surface is dry. Not for use on turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

**STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage and disposal.

**PESTICIDE STORAGE:** Store in original container only. In case of leak or spill, contain material and dispose of waste.

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

**CONTAINER HANDLING:** Nonreillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available, or dispose of in a sanitary landfill, or by incineration, or by other procedures allowed by state and local authorities.

**GENERAL INFORMATION**

**HI-YIELD® CRABGRASS CONTROL** is a preemergence herbicide for application to established turfgrass for control of annual bluegrass (*Poa annua*), smooth and hairy crabgrass, goosegrass (silver crabgrass or crowfoot), barnyardgrass (watergrass) and green and yellow foxtail. **HI-YIELD® CRABGRASS CONTROL** also provides partial control of prostrate spurge (*Euphorbia supina*), spotted spurge (*Euphorbia maculata*), creeping spurge (*Euphorbia serpens*), creeping woodsorrel (*Oxalis corniculata*) and yellow woodsorrel (*Oxalis stricta*). This product controls susceptible annual weeds by killing their seeds as they germinate. Apply this product prior to germination of target weeds since it does not control established weeds. This product will not harm most nearby established ornamental trees and shrubs.

**GENERAL USE PRECAUTIONS**

- Do not apply this product to golf course putting greens.
- Do not apply to dichondra.
- Do not apply to newly sprigged areas of Bermudagrass, St. Augustinegrass, Centipede-grass, or Zoysiagrass until turf is well established.
- Any cultural practices that disturb the soil, such as aeration or verticutting, should be done prior to application of this product.
- Do not make more than 2 applications of this product per year.
- Do not apply this product in the spring to turfgrass planted the previous fall
- This product may thin established annual Bluegrass (*Poa annua*) turfs and fine-leaved fescues at rates of 100 lb. per acre (2 lbs. active ingredient).
- In Bermudagrass areas that have been overseeded with winter grasses, a spring application of this product may thin the overseeded grasses.
- Do not aerially apply this product.

**Maximum Single Application Rate:** Cool season turf – 120 lb. of this product per acre; warm season turf – 150 lb. of this product per acre.  
**Maximum Yearly Rate:** Cool season turf – 240 lb. of this product per acre; warm season turf – 300 lb. of this product.  
**Minimum Re-Treatment Interval:** Cool season turf – 56 to 70 days; warm season turf – 70 to 84 days.

This product must be watered in as soon as possible after application.  
**Reseeding**  
 Do not reseed treated areas for at least 8 weeks after a single application of this product 75 to 100 lbs. of product per acre (1½ to 2 lbs. active ingredient) unless injury can be tolerated or 12 to 16 weeks after a single application of 100 to 150 lbs. of product per acre to (2 to 3 lbs. of active ingredient) unless injury can be tolerated. When reseeding, follow proper cultural practices such as soil cultivation, irrigation, and fertilization. For satisfactory reseeding results after using this product increase the amount of seed used and use equipment designed to place seed in contact with the soil.

**APPLICATION DIRECTIONS**

Apply **HI-YIELD® CRABGRASS CONTROL** using a drop or rotary-type spreader designed to apply granular herbicides or insecticides. Calibrate application equipment prior to use according to the manufacturer's directions. Check frequently to be sure equipment is working properly and distributing granules uniformly. Do not use spreaders that apply the material in narrow concentrated bands. Avoid skips or overlaps as poor weed control or turfgrass injury may occur. More uniform application may be achieved by spreading half of the required amount of product over the area and then applying the remaining half in swaths at right angles to the first.

**Application Techniques for Applying HI-YIELD® CRABGRASS CONTROL**  
 Successful preemergence control of the annual grass weeds listed on this label requires proper timing of application. Apply this product approximately 1 to 2 weeks prior to

the germination of annual grass weeds. If application timing does not coincide with the normal germination period of any of the annual grass weeds listed on this label, weed control results may be erratic or poor.

- When using a drop-type spreader, a splashboard mounted under the hopper will provide more even granule distribution.
- A chain fastened to the side of the spreader and allowed to drag on the surface can be used to mark the edge of the treated swath and help prevent skips or overlaps.
- For treated smaller areas, a small rotary applicator is recommended. To insure proper coverage and avoid missed areas, early morning treatment when wheel tracks are evident in the dew and the wind is calm is recommended.
- When using tractor mounted or pull-type rotary applicators, morning applications when the wind is calm and dew is on the ground is recommended. Wheel tracks are evident in the dew and granules can be spread uniformly.
- **Spring Germinating Summer Grasses (Crabgrasses, Goosegrasses, Foxtails, Barnyardgrass)**

**Northern Cool Season Turfgrass:** For preemergence control apply 13/4 to 31/2 lbs. of product per 1,000 sq. ft. of lawn. Apply in the spring, 1 to 2 weeks prior to the onset of conditions favorable for annual grass weed seed germination. Where heavy goosegrass pressure exists, use the rate of 31/2 lbs. per 1,000 sq. ft. of lawn. If split applications are desired, apply a cumulative rate of 31/2 lbs. of this product per 1,000 sq. ft. of lawn and make the second application 8 to 10 weeks after the first.

**Southern Warm Season Turfgrass:** For preemergence control, apply 21/4 to 31/2 lbs. of product per 1,000 sq. ft. of lawn. Apply in the late winter or early spring one to two weeks prior to the onset of conditions favorable for annual grass weed seed germination. In areas where germination of the annual grass weed species continues for extended periods of time, make a second application of this product at the recommended rate 10 to 12 weeks after the first application for continued control.

• **Poa annua (annual bluegrass)**  
**Northern Cool Season Turfgrass:** For preemergence control, apply 13/4 to 21/4 lbs. of product per 1,000 sq. ft. of lawn in the late summer or early fall and again in the late winter or spring one to two weeks prior to the expected germination of annual Bluegrass.

**Southern Warm Season Turfgrass:** For preemergence control, apply 31/2 lbs. per 1,000 sq. ft. of lawn in the late summer or early fall one to two weeks prior to the expected germination of annual Bluegrass. In southern areas where germination of annual Bluegrass continues for extended periods of time, a application of this product at 31/2 lbs. per 1,000 sq. ft. of lawn can be made 10 to 12 weeks after the initial treatment.

Eliminating annual Bluegrass in areas of heavy infestation will temporarily result in thin turfgrass areas. Proper fertilization, irrigation and soil incorporated reseeding will encourage existing desirable turfgrasses and newly planted seeding turfgrasses to fill in these thin areas previously occupied by annual bluegrass.

HI-YIELD® CRABGRASS CONTROL/Acre	HI-YIELD® CRABGRASS CONTROL/1000 Sq. Ft.
75 lb.	1¾ lb.
100 lb.	2¼ lb.
150 lb.	3½ lb.

**SPREADER SETTINGS  
AS A GUIDE FOR CALIBRATION  
(for applying in one pass over turf)**

**NOTE:** These settings are provided as *suggested* starting points in calibrating each individual spreader. Since no two spreaders are alike, these settings are not intended to be used as absolute recommendations by Voluntary Purchasing Groups, Inc. or the spreader manufacturer.

**SPREADER SETTING NECESSARY TO  
APPLY POUNDS FORMULATED PRODUCT  
PER 1,000 SQ. FT.**

SPREADER	1¾#/1000	2¼#/1000	3½#/1000
ferti-lome® by Spyker	4	5	5½
ferti-lome® Plus Iron Broadcast/Earthway 2850	14	15	17
ferti-lome® Plus Iron Broadcast/Earthway 2800A	14	15	17
Earthway Deluxe Broadcast 2050 S.U.	14	15	17
Earthway Drop 7300B	13	16	21
Scott Broadcast/Speedy Green	5½	6	7
Republic/Scotts Broadcast	4	4½	5½
Republic Drop	6	7	8
Precision Broadcast/Red Devil	7	10	11
Precision Drop FH-22D	12	14	17

These settings can be used only as a guide, they are not absolute. The speed at which the applicator walks, spreader condition and the texture of the turf will alter the rate of application. If product remains in spreader after application to recommended square foot coverage, spread remainder over same area going at right angles (See Diagram).



**TERMS AND CONDITIONS OF USE**

If terms of the following Warranty Disclaimer, Inherent Risks of Use, and Limitation of Remedies are not acceptable, return unopened package at once to the seller for a full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under Warranty Disclaimer, Inherent Risks of Use and Limitations of Remedies.

**WARRANTY DISCLAIMER**

Voluntary Purchasing Groups, Inc. warrant that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. Voluntary Purchasing Groups, Inc. makes no other express or implied warranty of merchantability or fitness for a particular purpose or any other express or implied warranty.

**INHERENT RISKS OF USE**

It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the bag, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of Voluntary Purchasing Groups, Inc., or the Seller. All such risks shall be assumed by Buyer.

**LIMITATION OF REMEDIES**

To the extent permitted by law, the exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories) shall be limited to, at Voluntary Purchasing Groups, Inc. election, one of the following:

1. Refund of purchase price paid by Buyer or user for product bought, or
2. Replacement of amount of product used.

Voluntary Purchasing Groups, Inc. shall not be liable for losses or damages resulting from handling or use of this product unless Voluntary Purchasing Groups, Inc. is promptly notified of such loss or damage in writing. In no case shall Voluntary Purchasing Groups, Inc. be liable for consequential or incidental damages or losses. The terms of the "Warranty Disclaimer" above and this "Limitation of Remedies" cannot be varied by any written or verbal statements or agreements. No employee or sales agent of Voluntary Purchasing Groups, Inc. or the seller is authorized to vary or exceed the terms of the "Warranty Disclaimer" or this "Limitation of Remedies" in any manner.



Produced For:  
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