



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

November 4, 2019

Wendy Danowski
Howard Johnson's Enterprises, Inc.
9675 60th Street
Franklin, WI 53132

Subject: Label Amendment – Label revisions including information about Advanced Soil Technology
Product Name: Crabgrass Preventer Plus with .58% Barricade Preemergence Herbicide
EPA Registration Number: 32802-67
Application Date: March 9, 2018
Decision Number: 539503

Dear Ms. Danowski:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance

Page 2 of 2
EPA Reg. No. 32802-67
Decision No. 539503

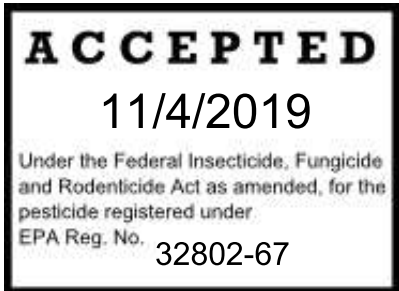
with FIFRA section 6. If you have any questions, please contact Emily Schmid at 703-347-0189 or by email at schmid.emily@epa.gov.

Sincerely,

A handwritten signature in blue ink that reads "Emily Schmid for". The signature is written in a cursive style.

Mindy Ondish, Product Manager 23
Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Enclosure



HJE 32802-67

[This Label Contains Two Sublabels:]
[Sublabel A: Residential Uses]
[Sublabel B: Commercial Uses]

PRODIAMINE	GROUP	3	HERBICIDE
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**CRABGRASS PREVENTER PLUS WITH
.58% BARRICADE® PREEMERGENCE HERBICIDE**

[Sublabel A: Residential lawns and outdoor domestic use with applications by homeowners]

FOR SELECTIVE PREEMERGENCE CONTROL OF GRASS and BROADLEAF WEEDS IN RESIDENTIAL LAWNS

STOPS MANY [UGLY] WEED GRASSES BEFORE THEY GROW. PREVENTS CRABGRASS, ANNUAL BLUEGRASS, FOXTAIL & MORE.

(See Marketing Claims Section for Additional Claims)

ACTIVE INGREDIENT:
Prodiamine: (CAS 29091-21-2) 0.58%
OTHER INGREDIENTS: 99.42%
TOTAL: 100.00%

EPA Reg. No. 32802-67
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.
[See tag attached to bag for fertilizer guaranteed analysis.]

GUARANTEED ANALYSIS XX-X-X	
Total Nitrogen (N)	XX%
x.x% ammoniacal nitrogen	
x.x% urea nitrogen*	
Available Phosphate (P ₂ O ₅)	X%
Soluble Potash (K ₂ O)	X%
Sulfur (S)	X%
x.x% free sulfur (S)	
Derived from: polymer-coated sulfur-coated urea, urea, ammonium phosphate, potassium chloride. *A portion of the urea has been coated to provide x.x% coated slow-release nitrogen. This product and/or its manufacture is covered by one or more of the following U.S. patents and international counterparts thereof: US Patent Numbers: xxxxxx	
Note: Fertilizer grades with nutrient contents expressed as the percentages of N, P ₂ O ₅ and K ₂ O may include the following: 23-3-7 or x-x-x. The fertilizer grade analyses may contain macronutrients and micronutrients. The nutrient contents expressed will vary among states, and the analyses will differ between supplemental registrations.	

(Optional additional guarantee statement)
[ALSO CONTAINS NON PLANT FOOD INGREDIENTS.
SOIL AMENDING GUARANTEED ANALYSIS

Active Ingredients:

- Mycorrhizal Fungi.....1.12 props/gm
 - Glomus intraradices*..... 0.28 props/gm
 - Glomus mosseae*.....0.28 props/gm
 - Glomus etunicatum*0.28props/gm
 - Glomus aggregatum*0.28props/gm

Inert Ingredients (as a soil amendment):

(The % here needs to be adjusted for this formula which includes herbicides; e.g.)

- x.xx% Fertilizer ingredients
- x.xx% Herbicide ingredients

<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Lot code:</td> </tr> <tr> <td style="padding: 5px;">Expiration Date:</td> </tr> </table>	Lot code:	Expiration Date:
Lot code:		
Expiration Date:		

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(Optional additional guarantee statement)
[ALSO CONTAINS NON PLANT FOOD INGREDIENTS.
(FLORIDA)
SOIL AMENDING GUARANTEED ANALYSIS

Active Ingredients:

- 0.5% Anionic Polyacrylamide Copolymer (Emulsion)

Inert Ingredients (as a soil amendment):

- 99.05% Fertilizer Ingredients

Manufactured by: Howard Johnson's Enterprises, Inc.
9675 S 60th Street, Franklin, WI 53132

BARRICADE" is a registered trademark of Syngenta Crop Protection

Read the entire Label before using this product. If terms are not acceptable, return the unopened product container at once to the seller.

(Brackets [] contain optional language for use in states where the maximum application rate is limited by N restrictions)

NET WEIGHT: [XXX 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. Prolonged or repeated skin contact with product may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet

ENVIRONMENTAL HAZARDS:

To protect the environment, do not allow this product 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 does not blow this product off the treated 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.

Do not apply directly to water, 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 wash water.

NON-TARGET ORGANISM ADVISORY STATEMENT: This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent the treated site. Protect the forage and habitat of not-target organisms by following label directions intended to minimize spray drift.

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.
Hot line number	
Have the product container or label with you when calling a poison control center 800-424-9300 or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.	

DIRECTIONS FOR USE:

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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. 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). 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.

USE RESTRICTIONS: 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 to overseeded turf within 60 days after seeding or until after the second mowing, whichever is longer. Do not apply to newly set sod until the following year. Do not apply through any type of irrigation system. Do not apply aerially. Do not graze or feed livestock forage cut from treated areas. 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.

This product is a selective preemergence herbicide that provides residual control of many grass and broadleaf weeds in established residential lawns and landscape ornamentals and in established perennials and wildflower plantings in residential settings. It controls susceptible weeds by inhibiting weed seed 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; goosegrass¹; 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).

1. In many areas [where not prohibited by fertilizer use restrictions**] a single application of 2.5 to 5.94 pounds / 1000 square feet (112 to 259 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 2.5 to 3.9 pounds / 1000 square feet (112 to 173 pounds/acre) [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 by Turfgrass Species" table in Rates of Application section of this label).

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.]

WEED RESISTANCE MANAGEMENT

For resistance management, Crabgrass Preventer Plus with .58% Barricade Preemergence Herbicide is a Group 3 herbicide. Any weed population may contain or develop plants naturally resistant to (name of product) and other Group (mode of action group number) herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance management strategies should be followed.

To delay herbicide resistance take one or more of the following steps:

- Rotate the use of Crabgrass Preventer Plus with .58% Barricade Preemergence Herbicide or other Group 3 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Report any incidence of non-performance of this product against a particular weed species to your retailer, representative, or call 1-800-xxx-xxxx. If resistance is suspected, treat weed escapes with an herbicide having a different mechanism of action and/or use non-chemical means to remove escapes as practical, with the goal of preventing further seed production.
- Difficult to control weeds may require sequential applications of herbicides with differing mechanisms of action.
- Apply this herbicide at the correct timing and rate needed to control the most difficult weed in the field.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance management and/or integrated weed-management recommendations for specific crops and weed biotypes.

- Contact your local sales representative, or extension agent to find out if suspected resistant weeds to this MOA have been found in your region. If resistant biotypes of target weeds have been reported, use the application rates of this product specified for your local conditions.

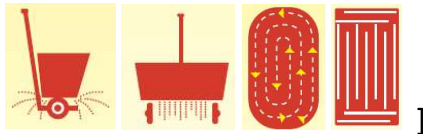
WHEN TO APPLY TO ESTABLISHED TURF: This product must be applied prior to germination of weed seed, as it will not control established weeds.

[Graphic – Map showing approximate crabgrass germination dates]

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.

[BROADCAST SPREADERS: For best results, apply in a circular path starting on the outside and working toward the center overlapping slightly to insure complete coverage.

DROP SPREADERS: Apply 2 strips along each end. Then apply along length of lawn, overlapping slightly and shutting off the spreader before each turn at edge of border strips.



SPREADER SETTINGS to apply at the listed pounds per 1000 square feet					
	[1.9 lbs]	[2.5 lbs]	[3.16 lbs]	[4 lbs]	[5.94 lbs]
Spreader A					
<i>(May contain additional spreader brands/models, spreader settings and spreader use instructions as appropriate for the product)</i>					

SETTING YOUR LAWN SPREADER

THESE SETTINGS ARE A GUIDE. They were determined by landscape professionals using new spreaders. The condition of your spreader, your walking speed, the roughness of the lawn, and even the humidity can affect how fast the lawn food comes out. Watch flow rate. If fertilizer appears to be coming out either slower or faster than you are covering your lawn, adjust the setting. Close the spreader when filling, turning or stopping.

[Advisory For Fertilizers Containing Iron:
 Keep this product off sidewalks, patios, driveways, etc. This fertilizer may stain concrete and painted surfaces. If it comes in contact with concrete surfaces, sweep off immediately before flushing with water. If concrete is wet when contact occurs, staining may be impossible to prevent. Be careful when using rotary spreaders which scatter fertilizer beyond lawn edge and onto concrete.]

(Optional/Alternate Application Directions)

1. Determine size of area to be treated - measure length and width in feet, then multiply to determine coverage area in square feet (length x width). Next, subtract non-lawn areas.
2. Use the spreader setting chart to determine the appropriate setting.
3. Apply evenly over dry grass, avoiding streaks, skips and overlaps - thorough coverage is important. On hot days (above 80° F), water the lawn to rinse particles off the grass.

Note: The spreader settings listed at right are approximate. It is important to check calibration of spreader frequently to ensure spreader is functioning properly and applying product evenly. To check calibration, accurately weigh a few pounds into your spreader and apply to a measured area. Then adjust spreader setting if necessary in order to ensure correct rate of application.

RATES OF APPLICATION: Use this product 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 maximum yearly rate listed:

Minimum and Maximum Application Rates (by Turf Grass Species)¹		
Turf Species	Minimum Rate	Maximum Rate
Bahiagrass ² , Centipedegrass ² Bermudagrass ³ , Zoysiagrass Seashore Paspalum St. Augustinegrass Tall Fescue (including turf-type)	4 pounds per 1000 sq. ft (175 lbs/acre)	5.94 pounds/1000 sq. ft. per year (259 lbs/acre per year)
Buffalograss Kentucky Bluegrass Perennial Ryegrass	2 pounds per 1000 sq. ft (87.5 lbs/acre)	4 pounds/1000 sq. ft. per year (173 lbs/acre per year)
Creeping Red Fescue	1.5 pounds per 1000 sq. ft (65.3 lbs/acre)	2.9 pounds per 1000 sq. ft. per year (130 lbs/acre per year)
Creeping Bentgrass	1.5 pounds per 1000 sq. ft (65.3 lbs/acre)	2.5 pounds per 1000 sq. ft. per year (112 lbs/acre per year)
<p>1 These are the maximum rates per calendar year.</p> <p>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.]</p> <p>3 May be used on newly sprigged or plugged Bermudagrass at rates not to exceed 2 lbs / 1000 square feet (87.5 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.</p>		

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 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. The retreatment interval is 60-90 days.

[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
1.9 lbs/1000 sq ft (86 pounds/acre)	4	4	4
2.5 lbs/1000 sq ft (112 pounds/acre)	5	4	4
2.9 lbs/1000 sq ft (130 pounds/acre)	6	5	5
3.16 lbs/1000 sq ft (138 pounds/acre)		6	6
4 lbs/1000 sq ft (173 pounds/acre)		7	7
4.5 lbs/1000 sq ft (197 pounds/acre)			9
5.14 lbs/1000 sq ft (224 pounds/acre)			10
5.94 lbs/1000 sq ft (259 pounds/acre)			12

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

PESTICIDE STORAGE: Store in original container in a cool, dry, locked storage area out of reach of children and domestic animals.

PESTICIDE AND CONTAINER HANDLING:

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.

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. Plant 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.

PRODIAMINE	GROUP	3	HERBICIDE
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Sublabel B: For commercial applications to approved use sites

FOR SELECTIVE PREEMERGENCE CONTROL OF GRASS and BROADLEAF WEEDS IN LAWNS AND ORNAMENTAL TURF (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: (CAS 29091-21-2)0.58%
 OTHER INGREDIENTS: 99.42%
 TOTAL: 100.00%

EPA Reg. No. 32802-67
 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.
 [See tag attached to bag for fertilizer guaranteed analysis.]

GUARANTEED ANALYSIS XX-X-X	
Total Nitrogen (N)	XX%
x.x% ammoniacal nitrogen	
x.x% urea nitrogen*	
Available Phosphate (P ₂ O ₅)	X%
Soluble Potash (K ₂ O)	X%
Sulfur (S)	X%
x.x% free sulfur (S)	
Derived from: polymer-coated sulfur-coated urea, urea, ammonium phosphate, potassium chloride. *A portion of the urea has been coated to provide x.x% coated slow-release nitrogen. This product and/or its manufacture is covered by one or more of the following U.S. patents and international counterparts thereof: US Patent Numbers: xxxxxx Note: Fertilizer grades with nutrient contents expressed as the percentages of N, P ₂ O ₅ and K ₂ O may include the following: 23-3-7 or x-x-x. The fertilizer grade analyses may contain macronutrients and micronutrients. The nutrient contents expressed will vary among states, and the analyses will differ between supplemental registrations.	

(Optional additional guarantee statement)

[ALSO CONTAINS NON PLANT FOOD INGREDIENTS.

SOIL AMENDING GUARANTEED ANALYSIS

Active Ingredients:

- Mycorrhizal Fungi.....1.12 props/gm
 - Glomus intraradices*..... 0.28 props/gm
 - Glomus mosseae*.....0.28 props/gm
 - Glomus etunicatum*0.28props/gm
 - Glomus aggregatum*0.28props/gm

Inert Ingredients (as a soil amendment):

(The % here needs to be adjusted for this formula which includes herbicides; e.g.)

- x.xx% Fertilizer ingredients
- x.xx% Herbicide ingredients

<table border="1" style="width: 80%; margin: auto;"> <tr> <td style="padding: 5px;">Lot code:</td> </tr> <tr> <td style="padding: 5px;">Expiration Date:</td> </tr> </table>	Lot code:	Expiration Date:
Lot code:		
Expiration Date:		

(Optional additional guarantee statement)

[ALSO CONTAINS NON PLANT FOOD INGREDIENTS.

(FLORIDA)

SOIL AMENDING GUARANTEED ANALYSIS

Active Ingredients:

- 0.5% Anionic Polyacrylamide Copolymer (Emulsion)

Inert Ingredients (as a soil amendment):

- 99.05% Fertilizer Ingredients

(The % here needs to be adjusted for this formula which includes herbicides; e.g.)

- x.xx% Fertilizer ingredients
- x.xx% Herbicide ingredients

Manufactured by: Howard Johnson's Enterprises, Inc.

9675 S 60th Street, Franklin, WI 53132

BARRICADE" is a registered trademark of Syngenta Crop Protection

Read the entire LABEL 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.

(Brackets [] contain optional language for use in states where the maximum application rate is limited by N restrictions)

NET WEIGHT: XXX LB

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. Prolonged or repeated skin contact with product may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Applicators must wear long-sleeved shirts, long pants, socks and shoes.

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.
Hot line number	
Have the product container or label with you when calling a poison control center 800 -424-9300 or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies, or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.	

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.

Do not apply directly to water, 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 wash water.

NON-TARGET ORGANISM ADVISORY STATEMENT: This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent the treated site. Protect the forage and habitat of not-target organisms by following label directions intended to minimize spray drift.

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 purposes.

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. 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). 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

USE RESTRICTIONS: 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 to overseeded turf within 60 days after seeding or until after the second mowing, whichever is longer. Do not apply to newly set sod until the following year. Do not apply through any type of irrigation system. Do not apply aerially. Do not graze or feed livestock forage cut from treated areas. 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.

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 seed 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; goosegrass¹; 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).

1. In many areas [where not prohibited by fertilizer use restrictions**] a single application of 2.5 to 5.94 pounds / 1000 square feet (112 to 259 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 2.5 to 3.9 pounds / 1000 square feet (112 to 173 pounds/acre) [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 by Turfgrass Species" table in Rates of Application section of this label).

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.]

WEED RESISTANCE MANAGEMENT

For resistance management, Crabgrass Preventer Plus with .58% Barricade Preemergence Herbicide is a Group 3 herbicide. Any weed population may contain or develop plants naturally resistant to (name of product) and other Group (mode of action group number) herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field. Appropriate resistance management strategies should be followed.

To delay herbicide resistance take one or more of the following steps:

- Rotate the use of Crabgrass Preventer Plus with .58% Barricade Preemergence Herbicide or other Group 3 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds in a field.

- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method such as hoeing or tillage. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment when moving between fields, and planting clean seed.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.
- Report any incidence of non-performance of this product against a particular weed species to your retailer, representative, or call 1-800-xxx-xxxx. If resistance is suspected, treat weed escapes with an herbicide having a different mechanism of action and/or use non-chemical means to remove escapes as practical, with the goal of preventing further seed production.
- Difficult to control weeds may require sequential applications of herbicides with differing mechanisms of action.
- Apply this herbicide at the correct timing and rate needed to control the most difficult weed in the field.
- Contact your local extension specialist or certified crop advisors for additional pesticide resistance management and/or integrated weed-management recommendations for specific crops and weed biotypes.
- Contact your local sales representative, or extension agent to find out if suspected resistant weeds to this MOA have been found in your region. If resistant biotypes of target weeds have been reported, use the application rates of this product specified for your local conditions.

WHEN TO APPLY TO ESTABLISHED TURF: This product must be applied prior to germination of weed seed, as it will not control established weeds.

[Graphic – Map showing approximate crabgrass germination dates]

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.

RATES OF APPLICATION: Use this product 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 maximum yearly rate listed:

Minimum and Maximum Application Rates (by Turf Grass Species)¹		
Turf Species	Minimum Rate	Maximum Rate
Bahiagrass ² , Centipedegrass ² Bermudagrass ³ , Zoysiagrass Seashore Paspalum St. Augustinegrass Tall Fescue (including turf-type)	4 pounds per 1000 sq. ft (1.75 lbs/acre)	5.94 pounds/1000 sq. ft. per year (259 lbs/acre per year)
Buffalograss Kentucky Bluegrass Perennial Ryegrass	2 pounds per 1000 sq. ft (87.5 lbs/acre)	4 pounds/1000 sq. ft. per year (173 lbs/acre per year)
Creeping Red Fescue	1.5 pounds per 1000 sq. ft (65.3 lbs/acre)	2.9 pounds per 1000 sq. ft. per year (260 lbs/acre per year)
Creeping Bentgrass	1.5 pounds per 1000 sq. ft (65.3 lbs/acre)	2.5 pounds per 1000 sq. ft. per year (112 lbs/acre 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 2 lbs / 1000 square feet (87.5 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.

(Optional/Alternate Application Directions)

1. Determine size of area to be treated - measure length and width in feet, then multiply to determine coverage area in square feet (length x width). Next, subtract non-lawn areas.
 2. Use the spreader setting chart to determine the appropriate setting.
 3. Apply evenly over dry grass, avoiding streaks, skips and overlaps - thorough coverage is important. On hot days (above 80° F), water the lawn to rinse particles off the grass.
- Note: The spreader settings listed [below][at right] are approximate. It is important to check calibration of spreader frequently to ensure spreader is functioning properly and applying product evenly. To check calibration, accurately weigh a few pounds into your spreader and apply to a measured area. Then adjust spreader setting if necessary in order to ensure correct rate of application.

SPREADER SETTINGS to apply at the listed pounds per 1000 square feet					
	[1.9 lbs]	[2.5 lbs]	[3.16 lbs]	[4 lbs]	[5.94 lbs]
Spreader A					
<i>(May contain additional spreader brands/models, spreader settings and spreader use instructions as appropriate for the product)</i>					

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 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
1.9 lbs/1000 sq ft (86 pounds/acre)	4	4	4
2.5 lbs/1000 sq ft (112 pounds/acre)	5	4	4
2.9 lbs/1000 sq ft (130 pounds/acre)	6	5	5
3.16 lbs/1000 sq ft (138 pounds/acre)		6	6
4 lbs/1000 sq ft (173 pounds/acre)		7	7
4.5 lbs/1000 sq ft (197 pounds/acre)			9
5.14 lbs/1000 sq ft (224 pounds/acre)			10
5.94 lbs/1000 sq ft (259 pounds/acre)			12

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 2.5 to 5.94 pounds / 1000 square feet (112 to 259 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 5.94 pounds / 1000 square feet (259 pounds/acre) per year.

APPLICATION TIMING AND INFORMATION: This product may be applied to newly transplanted and established ornamentals as 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.
(*List may be truncated to save space)

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>
Abies spp	Fir species** (Balsam, Frasier, Noble, etc.)
Abelia grandiflora	Abelia: Sherwood
Acer palmatum	Japanese Maple
A. platanoides	Norway Maple
Achillea spp.	Yarrow, King Edward
Actinidia chinensis	Kiwi*
Agapanthus africanus	Lily-of-the-Nile (African Lily)
Agapanthus orientalis	
Akebla quinata	Five-Leaf or Chocolate Vine
Allium cemuum	Lady's Leek, Nodding Onion
Anemone hydrida	Japanese Anemone
Aquilegia spp.	Aquilegia: Red and Gold
Arctostaphylos densiflora	Vine Hill Manzanita
Arctotheca calendula	Cape Weed
Artemesia spp.	Wormwood: Silver Mound, Castle
Aster spp.	Aster: Bonnie Blue, Purple Dome
Aster X Frikartii	
Athrium Fitz-femina	Lady Fern; Fern Lady
Aucuba japonica	Japanese Aucuba
Begonia spp.	Fibrous Begonia: Hardy Grandis
Berberis gladwynensis	Barberry
B. Julianae	Wintergreen Barberry
B. mentorensis	Mentor Barberry
B. thunbergii	Japanese Barberry
B. verruculosa	Warty Barberry
Bergenia cordifolia	
Boltonia asteroides	Snowbank
Buddlela davidii	Butterfly-Bush (Dwarf Blue) Royal Red
Buxus microphylla	Japanese Boxwood
Callistemon viminalis	Weeping Bottlebrush
Calluna vulgaris	Scotch Heather
Campanula carpatica	Tussock Bellflower, (White Clips)
Campis XTagliabuana	Trumpet Flower, Madame Galen
Carpobrotus edulis	Hottentot Fig (Ice Plant)
Cassia artemisoides	Feathery Cassia
Ceanothus rigidus	Wild Lilac
Ceratostigma plumbaginoides	
Chamaecyparis pisifera	False Cypress
Cleyera japonica	Cleyera
Citrus spp.	Citrus species*
Coreopsis spp.	Coreopsis (Calliopsis) Early Sunrise, Moonbeam
Cornus florida	Flowering Dogwood
C. stolonifera	American Dogwood
Cortaderia seloana	Pampas Grass
Cotoneaster apiculatus	Cranberry Cotoneaster
C. buxifolius	Cotoneaster

C. dammeri
C. microphyllus

Bearberry Cotoneaster
Rockspray Cotoneaster

SCIENTIFIC NAME

Cretaeagus spp.
Crocoshia spp.
Cupressus sempervirens
Delasperma alba
Delosperma spp.
Delphinium spp.
Dianthus deltooides
D. gratianopolitanus
Dodonea viscosa
Echinacea purpurea
Elaeagnus pungens
Euonymus fortunei
E. japonica
E. kiautschovica
Fatsia japonica
Forsythia intermedia
Forsythia suspense
F. viridissima
Gaillardia spp.
Gardenia jasminoides
Gaura spp.
Gentiana daturica
Geranium cinereum
Gladiolus spp.
Gypsophila repens
Hedera helix
Hellantherum spp.
Hemerocallis spp.
Hibiscus
Hibiscus spp.
Hibiscus rosa-sinensis
Hosta plantaginea
H. Sieboldiana
Houttuynia cordata var. variegata
Hydrangea macrophylla
Ilex Bernyl
Ilex cornuta
I. crenata
I. opaca
I. vomitoria
Inula ensifolia
Iris ensata
Iris siberica
Iris spp.
Jasminium nudiflorum
Juniperus chinensis
J. conferta
J. davuria
J. horizontalis
Juglans spp.
Justicia brandegeana
Lagerstromia indica
Lagerstromia indica X Fauriei
Lantana montevidensis
Lavender spp.
Leonopodium alpinum
Ligustrum amurense
Ligustrum sinense

COMMON NAME

Hawthorne
Lucifer
Italian Cypress
White Trailing Ice Plant
Cooperi Pink
Larkspur, Blue Elf
Dianthus; Maiden Pinks "Zing"
Cheddar Pink
Hop Bush
Coneflower, Purple; Magnus
Silverberry
Wintercreeper
Evergreen Euonymus
Spreading Euonymus
Japanese Aralia
Border Forsythia
Weeping Forsythia
Greenstem Forsythia
Gaillardia, Blanket Flower: "Goblin"
Gardenia, Cape-Jasmine

Gentian
Cranesbill
Gladiolus species**
Baby's Breath
English Ivy
Sunrose
Daylily: Aztec Gold, Stella de Oro, Tender Love
Rose of Sharon**
Mallow: Disco Belle White
Chinese Hibiscus
Hosta, Plantain Lily (Fragrant)
Hosta, "Seersucker"

Bigleaf Hydrangea
Holly
Chinese Holly
Japanese Holly
American Holly
Yaupon Holly, Schillings

Sword-Leaved Iris; Jodlesong
Siberian Iris; Cabernet
Iris species**
Winter Jasmine
Chinese Juniper; Nick's Compact; Parsonii
Shore Juniper; Blue Pacific
Parsoni
Creeping Juniper
Walnut*
Shrimp Plant
Crape Myrtle
Crape Myrtle, Tuscarora
Weeping Lantana
Lavender; Munstead
Edelweiss
Amur Privet
Chinese privet, Variegata

L. japonicum	Japanese Privet
L. lucidum	Glossy Privet (Waxleaf)
Lillium spp.	Lily; Jazz
<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>
Liriope muscari	Big Blue Lily; Silver Mound, Evergreen Giant
Liriope muscari var. variegata	Liriope, variegated
Liriope spicata	Liriope, Creeping
Lobelia Cardinalis	Cardinal Flower, Indian Pink
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 sp.	Crabapple*
Miscanthus sinensis	Yaku Jima, Silberfeder
Nandina domestica	Heavenly Bamboo
Narcissus spp.	Narcissus species**
Nerium oleander	Oleander
Olea europaea	Olive*
Ophiopogon japonicus	Mondo Grass
Osmanthus heterophyllus	Osmanthus (False Holly): Gulf Tide
Osteospermum fruticosum	Trailing African Daisy
Oxydendrum arboreum	Sourwood
Paeonia suffruticosa	Tree Peony
Pennisetumsetaceum	Fountain Grass (Dwarf)
Perovskia atriplicifolia	
Persea americana	Avocado*
Photinia fraseri	Frasier's Photinia (Redtip)
Physotegia Virginiana	Dragonhead, False; Vivid
Picea spp.	Spruce species** (Colorado Blue, Norway)
Pieris japonica	Lily-of-the-Valley Bush
Pinus brutia	Calabrian Pine
P. canariensis	Canary Island Pine
P. elliotii	Slash Pine
P. halepensis	Aleppo Pine
P. nigra	Austrian Pine
P. radiata	Monterey Pine
P. strobus	Eastern White Pine
P. sylvestris	Scotch Pine
P. taeda	Loblolly Pine
P. thunbergiana	Japanese Black Pine
P. virginiana	Virginia Pine
Pistachio sp.	Pistachio*
Pittosporum rhombifolium	Queensland Pittosporum
P. tobira	Japanese Pittosporum
Podocarpus macrophyllus	Japanese Yew
Prunus laurocerasus	English Laurel
Prunus sp.	Almond, Apricot, Nectarine Peach, Plum and Prune*
Pseudotsuga menziesii	Douglas Fir**
Pyracantha coccinea	Firethorn (Scarlet)
P. fortuneana	Firethorn
P. koidzumii	Firethorn
Pyrus sp.	Bradford Pear spp.
Quercus Shumardii	Oak, Shumard's Red
Quercus spp.	Oak species
Raphiolepis indica	Indian Hawthorne
Raphiolepis umbellata	Yedda hawthorne
Rhododendron	'Coral Bells,' 'Formosa,' 'Hino-crimson,' 'PJM'
(including Azalea)	'Delaware Valley White,' 'Roseum Elegans,'

Rosa banksiae 'Flame Creeper,' 'Girard Crimson,' 'Wakeiebisu,'
'White Gumbo,' 'George L. Tabor'
Lady Bank's Rose

<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>
Rosmarinus officinalis	Rosemary*
Rudbeckia spp.	Black-eyed Susan; Goldsturm
Santolina virens	Santolina
Saxifrage spp.	Saxifrage; Purple Dome
Scabiosa spp.	Pincushion Flower
Sedum album	Stonecrop
Sedum caudicicola	Stonecrop; Lidakense
Sedum dasycyllum	Stonecrop
Sedum spurium	Stonecrop; Dragon's Blood
Spiraea burnalda	Spirea: Anthony Waterer
Syzygium paniculatum	Australian Brushcherry
Taxus cuspidata	Japanese Yew
T. media	Yew
Teucrium spp.	Germander
Thalictrum diptercarpum	Meadow Rue
Thuja occidentalis	American Arborvitae
Trachelospermum asiaticum	Star Jasmine
Tsuga canadensis	Canada Hemlock
Yulipa spp.	Tulip species
Veronica spp.	Veronica, Speedwell; sunny Border
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, Vinca
Vitis sp.	Grape*
Weigela florida	Old Fashioned Weigela
Yucca aloifolia	Spanish Bayonet, Yucca
Y. filamentosa	Adam's Needle, Yucca

*Do not use on food producing trees, vines or plants.

**Not for use on container grown plants.

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

PESTICIDE STORAGE: Store in original container in a cool, dry, locked storage area out of reach of children and domestic animals.

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

CONTAINER HANDLING: Completely empty bag into application equipment.

Nonrefillable container: Do not reuse or refill this container. **If empty:** Place in trash or offer for recycling, if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain

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 STATEMENTS

(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. A lawn typically will utilize 1 to 4 pounds of nitrogen per 1,000 square

feet per growing season. When used as directed, this product will supplement your regular fertilizer program by providing '(No of lbs) pounds of nitrogen per 1,000 square feet and herbicide to control listed weeds. Please consult your local extension office for questions regarding a regular fertilizer program.

Information regarding the contents and levels of metals in this product is available on the Internet at <http://www.aapfco.org/metals.htm> [OR by calling [1-877-726-6275]]

When applied as directed, this product meets the guidelines for metals adopted by the Association of American Plant Food Control Officials. Information regarding the contents and levels of metals in this product is available on the Internet at <http://www.aapfco.org/metals.htm>.

Information regarding the raw materials composing this product can be obtained by writing to the Guarantor listed on this label and referring to the batch number found on this container.

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/garden, and sweep any product that lands on the driveway, sidewalk or street, back onto your lawn/garden.

APPLICATION LIMITS: Certain states have limits on fertilizer application rates and timing. Consult your local State Cooperative Extension Service for current information on application limits for [turf/lawn] fertilizers in your area.

(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.

⚠ NOTICE: Cancer – www.P65Warnings.ca.gov

(Optional wording in Florida for non-specialty packaging)

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.

(Note: If registered in the state of Florida, any of the following optional statements may be added as appropriate)

In Florida, do not exceed X applications per year on Bahiagrass in the North, and X per year in Central and South Florida.

In Florida, do not exceed X applications per year on Bermudagrass in the North, or X applications per year in Central and X applications per year in South Florida.

In Florida, do not exceed X applications per year on Centipedegrass in the North, or X applications per year in Central and South Florida.

In Florida, do not exceed X applications per year on St. Augustinegrass in the North, or X applications per year in Central and X applications per year in South Florida.

In Florida, do not exceed X applications per year on Zoysiagrass in the North, or X applications per year in Central and South Florida.

(Note: may also be expressed in tabular format.)

If Registered In Florida:

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 in 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.] [Check with your county or city government to determine if there are local restrictions on fertilizer use of application.]

(Optional Marketing Claims)

Herbicide Benefit Claims

STOPS MANY WEED GRASSES BEFORE THEY GROW

3-5 month Weed Grass Control

Up to 5 [month] [months of] weed grass control

Controls [prevents] crabgrass [and other listed weed grasses] for up to 5 months

Covers [5,000 / 7,500 / 10,000 / 15,000] Sq. Ft.

Prevents crabgrass and other weed grasses

Controls Crabgrass and Broadleaf Weeds Before they Germinate

Prevent crabgrass and fertilize your lawn in one application

Controls Annual Bluegrass (poa annua), Chickweed, Crabgrass, Spurge [and many other weeds]

Fertilizer Benefit Claims

Enhanced Efficiency Fertilizer [- feed more lawn with less fertilizer]

Delivers nutrients more efficiently than ordinary fertilizers

Quick Greening and Extended Feeding

Helps strengthen lawn against heat & drought
 Good for all grass types
 [Feeds] [greens] [feeds and greens] for up to [3] [X] months
 Contains slow release Nitrogen for extended [greening, feeding]
 [Rich in] Nitrogen for a lush green lawn
 [Enriched with] Potassium for overall plant vigor
 Contains potassium for drought & disease resistance
 Phosphorus Free – [Helping Reduce Phosphorus in Water Sources] [Only for use on formulations containing zero phosphorus]
 Provides Lush, green grass
 Promotes thick, full grass
 You only need [XX] pounds of fertilizer to cover (XXXX) square feet

Fungi Benefit Claims

Boosts Nutrient Uptake for a Lush, Green Lawn
 Increases Drought Tolerance & Reduces Watering Needs by Extending Root Absorption Area
 Increased root absorption area for more efficient use of water in [the] soil
 Allows grass to use more of the fertilizer you buy and apply
 [Contains mycorrhizal fungi for] enhanced nutrient uptake
 Increased root absorption area to protect against heat & drought
 Increase absorption [area of roots, of fertilizer]
 The only brand with MYCO Advantage™ for better results than [fertilizer alone, ordinary fertilizer]
 MYCO Advantage™ - Better Results than fertilizer alone

The Pennington® UltraGreen® Difference

Pennington® UltraGreen® products are more efficient than other fertilizers. Half of the nitrogen in this line is stabilized⁺⁺, which allows grass to use more of the nutrients you put down and reduces nutrient loss to the environment. The other half of the nitrogen is slow-release for extended feeding for up to 3 months.

Additionally, these unique blends contain mycorrhizal fungi, organisms that have been present in vigorous soils for millions of years. These microscopic fungi increase the surface absorbing area of roots, greatly improving the ability of the lawn to access vital soil resources such as water and nutrients.

These tiny fertilizer granules are packed with essential plant nutrients and fungi, so you can feed more lawn with less fertilizer.

Benefits of Pennington® UltraGreen™ Crabgrass Preventer Plus Fertilizer 30-0-4 Distributor name

- Promotes thick, green grass
- Half of the total nitrogen in this product is slow-release and feeds for up to 3 months [guaranteed]
- Half of the total nitrogen is stabilized for less leaching into the environment
- Phosphorus-free [Only for use on formulations containing zero phosphorus]

Pennington® UltraGreen® Crabgrass Preventer Plus Fertilizer 30-0-4 WILL NOT BURN when used as directed. We're so confident you'll love the results of using [this product] that it comes with the Pennington Satisfaction Guarantee. †

† Pennington Satisfaction Guarantee: If, after following the instructions, you are not satisfied with the product results, send your name, address, and proof of purchase (original dated receipt) to:

Pennington Refund
1000 Parkwood Circle, Suite 700
Atlanta, GA 30339

Additional Optional Marketing Claims

The Pennington® UltraGreen® Difference

Pennington® UltraGreen® products are more efficient than other fertilizers. Half of the nitrogen in this line is stabilized**, which allows grass to use more of the nutrients you put down and reduces nutrient loss to the environment. The other half of the nitrogen is slow-release for extended feeding for 3 months. Additionally, these unique blends contain mycorrhizal fungi, organisms that have been present in vigorous soils for millions of years. These microscopic fungi increase the surface absorbing area of roots, greatly improving the ability of the lawn to access vital soil resources such as water and nutrients. These tiny fertilizer granules are packed with essential plant nutrients and mycorrhizal fungi, so you can feed more lawn with less fertilizer.

**Excluding the Pennington® UltraGreen® Starter Fertilizer

Additional Optional Marketing Claims

Weed Control

Provides season-long crabgrass control and fertilizes in one application
Stops annual crabgrass and other listed annual grassy weeds before they grow
Stops crabgrass before it invades and protects all season
Season long crabgrass control
Controls [prevents] crabgrass [and feeds] all season long [for x months]

General Fertilizer

100% satisfaction guaranteed or your money back
Feeds and strengthens to help protect against future problems
Special formula that thickens and promotes a lush, deep green lawn
Feeds all season long
Feeds for X months
[Promotes turf growth] [and] [deepens [turf] [lawn] [grass] roots]

Micro Nutrients

Enriched with micro-nutrients to revitalize soil

AST

Reduces Watering Needs

Water Less: Retains more water in the soil* (*vs. soil not treated with AST)

Helps maintain more moisture in the soil

Helps hold moisture & nutrients in the soil [so more is available for your lawn]

Helps keep [water], [fertilizer], [soil], & [nutrients] in [place] [soil] [to prevent runoff]

Reduces soil compaction

Boosts Nutrient Uptake for a Lush, Green Lawn

Helps lawns retain water to protect against heat & drought

Strengthens lawn against heat & drought

Iron

Contains X% iron for [[quick] deep green] [lawn]

For a [deep] green lawn

For a lush, thick deep green lawn

Greens quickly

Added Iron for deeper green

N 0 NITROGEN

Contains zero Nitrogen

P 0 PHOSPHATE

Contains zero Phosphorous

K 0 POTASH

Contains zero Potash

Pre-emergent Control of Crabgrass, Goosegrass, Foxtail, Chickweed, Oxalis, Spurge, Knotweed and Poa Annu

Prevents Listed Annual Grassy and Broadleaf Weeds

For use in all regions

Spring

Summer

Fall

Optional Text

The Pennington® [Product Name] Difference

(with AST, Iron and Micros)

This blended fertilizer is packed with essential plant nutrients to give you the thick, green lawn you desire. It has both fast acting nitrogen for quick greening, and slow release nitrogen for up to 3 months of feeding. There are also added plant nutrients such as iron, magnesium, manganese, copper and zinc, for a deep green and plant vigor. Additionally, it contains AST® Advanced Soil Technology™, allowing the soil to retain more water [and nutrients], and give your grass what it needs to grow with less watering.

[Product Name] WILL NOT BURN when used as directed. We're so confident you'll love the results of [Product Name], that it comes with the Pennington Satisfaction Guarantee.†

(With AST and Iron)

This blended fertilizer is packed with essential plant nutrients to give you the thick, green lawn you desire. It has both fast acting nitrogen for quick greening, and slow release nitrogen for up to 3 months of feeding. With X% Iron, this fertilizer will give you a deep, dark green lawn. Additionally, it contains AST® Advanced Soil Technology™, allowing the soil to retain more water [and nutrients], and give your grass what it needs to grow with less watering.

[Product Name] WILL NOT BURN when used as directed. We're so confident you'll love the results of [Product Name], that it comes with the Pennington Satisfaction Guarantee.†

(With Iron)

This blended fertilizer is packed with essential plant nutrients to give you the thick, green lawn you desire. It has both fast acting nitrogen for quick greening, as well as slow release nitrogen for extended feeding for up to 3 months. With X% Iron, this fertilizer will give you a deep, dark green lawn.

[Product Name] WILL NOT BURN when used as directed. We're so confident you'll love the results of [Product Name], that it comes with the Pennington Satisfaction Guarantee.†

State mandated fertilizer labeling requirements:

[Note to Supplemental Registrants: Please select the statements relevant to the areas of the country in which your specific product is registered and sold; if any of these statements are relevant to your labeling, please place in the Directions for Use under the heading "State Restrictions"]

- California, Oregon, Washington: "Information regarding the contents and levels of metals in this product is available on the internet at <http://www.aapfco.org/metals.htm>"
- Florida: [Note to reviewer: maximum number of applications in this section is dually based upon maximum ai load as well as fertilizer analysis effect on maximum nitrogen rates in different regions in Florida]:
 - In North Florida: Do not exceed X applications per year on bermudagrass. Do not exceed X applications per year on centipedegrass. Do not exceed X applications per year on St. Augustine grass.
Do not exceed X applications per year on zoysiagrass.
 - In Central Florida: Do not exceed X applications per year on bermudagrass. Do not exceed X applications per year on centipedegrass. Do not exceed X applications per year on St. Augustine grass. Do not exceed X applications per year on zoysiagrass.
 - In South Florida: Do not exceed X applications per year on bermudagrass. Do not exceed X applications per year on centipedegrass. Do not exceed X applications per year on St. Augustine grass. Do not exceed X applications per year on zoysiagrass.
- Florida: "Apply only to actively growing turf."

- Florida: “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.
- Florida: Do not apply to lawns in North Florida in the winter.
- Idaho: “Apply only as directed”
- Maryland: “This fertilizer contains phosphorus and may not be used on turf in the state of Maryland except when 1) Providing nutrients to specific soils and target vegetation as determined to be necessary in accordance with a soil test that was conducted by a laboratory identified under § 8-803.7 of the Agriculture Article, Annotated Code of Maryland, performed no more than 3 years before the application; 2) Establishing vegetation for the first time, such as after land disturbance, provided the application is conducted in accordance with the recommended application rates established by the State; or 3) Reestablishing or repairing a turf area.”
- New Jersey: “In the state of New Jersey, this product may be used only when 1) Providing nutrients to specific soils and target vegetation as determined to be necessary pursuant to a soil test conducted by a laboratory identified pursuant to subsection b. of section 6 of P.L.2010, c.112 (C.58:10A-66) and performed no more than three years before the application, and pursuant to the associated annual fertilizer recommendation issued by the New Jersey Agricultural Experiment Station at Rutgers, the State University; 2) Establishing vegetation for the first time, such as after land disturbance, provided the application is in accordance with the standards and requirements established under the “Soil Erosion and Sediment Control Act,” P.L. 1975, c.251 (C.4:24-39 et seq.) and the rules and regulations adopted pursuant thereto; 3) Reestablishing or repairing a turf area; or 4) Delivering liquid or granular fertilizer under the soil surface, directly to the feeder roots.”
- New Hampshire: In the state of New Hampshire, this product may only be used on 1) Establishing new lawns, for repairing a lawn, for seeding, or for use when a soil test indicates a phosphorus deficiency.
- Virginia: “In the state of Virginia, this product may be used only on 1) Newly established turf areas from sod or seed during the first growing season; 2) Turf areas being repaired or renovated, and; 3) Turf areas where soil tests performed within the past three years indicate nutrient deficiency.”
13 of 13 002217-00643.20161111.notif-accepted-highlighted
- [Virginia, Florida, Maryland, others] 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/GARDEN. [AND SWEEP ANY PRODUCT THAT LANDS ON THE DRIVEWAY, SIDEWALK, OR STREET, BACK INTO YOUR LAWN/GARDEN.] [Note to Supplemental Registrant: The bracketed part of this statement is not required for liquid products.]
- [For products containing Iron:] Keep this product off sidewalks, patios, driveways, etc. This fertilizer contains iron which will stain concrete and painted surfaces. If it comes in contact with concrete surface, sweep off immediately before flushing with water. If concrete is wet when contact occurs, staining may be impossible to prevent. Be careful when using rotary spreaders which scatter fertilizer beyond lawn edge and onto concrete.
- [Advisories for fertilizers containing iron:] "This product may stain concrete and stone, where spilling occurs, sweep off immediately, then flush with water." OR "Sweep all residues from concrete surfaces immediately after application. The iron content in this product will stain sidewalks, patios, driveways, swimming pools and deck coatings if not removed before watering. Neither seller nor distributor assumes any responsibility for damage incurred to any surface other than product's intended use."
- [Note to Supplemental Distributor: In Kentucky if the product supplies less than 1lb of Nitrogen per application, include the following:] A lawn typically will utilize 1 to 4 pounds of nitrogen per 1,000 square feet per growing season. When used as directed, this product will supplement your regular fertilizer program by providing XX pounds of nitrogen per 1,000 square feet [and herbicide to control listed weeds]. Please consult your local extension office for questions regarding a regular fertilizer program [suitable for your geographic region]."

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