

NITRO-PHOS FERTILIZER

Safety Data Sheet

Section 1: Identification

Product identifier

- | | |
|----------------------------|---|
| Product Name | • Nitro Phos Barricade |
| Synonyms | Preemergence Herbicide |
| Product Code | • EPA Reg. No.: 32802-67-54343; FertCDSSRsp |
| Product Description | • FertCDSSRsp |

Relevant identified uses of the substance or mixture and uses advised against

- | | |
|----------------------------|---|
| Recommended use | • Lawn fertilizer with weed control. |
| Restrictions on use | • Keep out of the reach of children. Avoid contact with eyes, skin or clothing. Avoid breathing dust. |

Details of the supplier of the safety data sheet

- | | |
|----------------------------|---|
| Manufacturer | • Howard Johnson's Enterprises, Inc.
9675 S. 60th Street
Franklin, WI 53132
United States
www.hjefertilizer.com |
| Telephone (General) | • (414) 394-3590 - 8:30am - 5:00pm CST |

Emergency telephone number

- | | |
|---------------------|---|
| Manufacturer | • 1-800-424-9300 - CHEMTREC - Transportation and Non-Transportation related emergencies |
| Manufacturer | • 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted |

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

- | | |
|----------------------|--|
| OSHA HCS 2012 | • Combustible Dust
Respiratory Sensitization 1A
Skin Sensitization 1 |
|----------------------|--|

Label elements

OSHA HCS 2012

DANGER

- Hazard statements** • May form combustible dust concentrations in air.
 May cause allergy or asthma symptoms or breathing difficulties if inhaled
 May cause an allergic skin reaction

Precautionary statements

- Prevention** • Avoid breathing dust, fume, gas, mist, vapours and/or spray.
 In case of inadequate ventilation wear respiratory protection.
 Contaminated work clothing should not be allowed out of the workplace.
 Wear protective gloves.
- Response** • IF ON SKIN: Wash with plenty of soap and water.
 If skin irritation or rash occurs: Get medical advice/attention.
 Wash contaminated clothing before reuse.
 IF INHALED: If breathing is difficult, remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison control center or doctor.
 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
- Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients**Substances**

- Material does not meet the criteria of a substance.

Mixtures

Composition		
Chemical Name	Identifiers	%
Barricade	CAS:29091-21-2	0.58%
Peanut hulls	NDA	40% TO 50%
Other ingredients	NDA	Balance

Section 4: First-Aid Measures**Description of first aid measures****Inhalation**

- IF INHALED: If breathing is difficult, remove person to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a poison control center or doctor.

Skin

- IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Eye

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

- IF SWALLOWED: Call a POISON CONTROL center or doctor if you feel unwell. Rinse mouth. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

- May cause allergy or asthma symptoms or breathing difficulties if inhaled due to peanut hulls. An allergic skin reaction may occur in individuals with a sensitivity to Barricade. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed**Notes to Physician**

- Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

Suitable Extinguishing Media • Use water, foam, carbon dioxide, or dry chemical.

Unsuitable Extinguishing Media • Avoid heavy hose streams.

Firefighting Procedures • Combustible dust - use low-pressure medium fog streams to avoid dust clouds. Eliminate ignition sources. Move containers from fire area if you can do it without risk. Stay upwind. LARGE FIRES: Dike fire control water for later disposal; do not scatter the material.

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards • Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard.

Hazardous Combustion Products • Decomposes upon heating to produce toxic vapors/gases which may include carbon oxides and nitrogen oxides.

Advice for firefighters

- Do not allow run-off to enter waterways. Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions • Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Avoid dust formation and breathing dust. Ventilate enclosed areas. Keep all sources of ignition away.

Emergency Procedures • Contain spill and monitor for excessive dust accumulation. Turn off electric power to area. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Environmental precautions

- Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures • Avoid generating dust. Use appropriate Personal Protective Equipment (PPE) Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Sweep or scoop up spills, dispose of any unusable material in approved landfill. Non-sparking tools should be used.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Avoid breathing dust. Avoid contact with skin, eyes, and clothing. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Avoid contact with heat and ignition sources.

Conditions for safe storage, including any incompatibilities

Storage

- Keep out of reach of children. Store in original container. Store in a cool/low-temperature, well-ventilated dry place away from heat and ignition sources.

Incompatible Materials or Ignition Sources

- Strong acids, oxidizing agents and caustics.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines

- No data available.

Exposure controls

Engineering

Measures/Controls

- Use adequate ventilation to remove vapors (fumes, dust etc)

Personal Protective Equipment

Pictograms



Respiratory

- If airborne dust is present or in case of inadequate ventilation, use appropriate NIOSH approved respiratory protection.

Eye/Face

- Wear safety glasses.

Hands

- Wear appropriate gloves.

Skin/Body

- Use of a full body suit such as Tyvek or Tychem suit is recommended.

Environmental Exposure Controls

- Avoid contaminating waterways and sewers. Refer to Section 13 - Disposal Considerations.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description

Physical Form	Solid	Appearance/Description	Variable colored granules.
Color	Multi-colored	Odor	No data available.
Odor Threshold	No data available		

General Properties

Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	pH	Not relevant
Specific Gravity/Relative Density	No data available	Bulk Density	45 to 80 lb(s)/ft ³
Water Solubility	No data available	Viscosity	Not relevant

Volatility

Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	VOC (Wt.)	No data available

Flammability

Flash Point	Not relevant	UEL	No data available
LEL	No data available	Autoignition	No data available

Flammability (solid, gas)	No data available		
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- This material is friable and can create small dust particles during any handling, processing, and transfer operations. This material can form explosive dust/air suspensions that are ignitable under some conditions.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Hazardous polymerization will not occur. May form combustible dust concentrations in the air.

Conditions to avoid

- Heat, sparks, open flame. Avoid storage with or near toxic substances.

Incompatible materials

- Strong acids, oxidizing agents and caustics.

Hazardous decomposition products

- Thermal decomposition may produce toxic gases including carbon monoxide and/or nitrogen oxides.

Section 11 - Toxicological Information

Information on toxicological effects

Components		
Barricade (0.58%)	29091-21-2	Acute Toxicity: Ingestion/Oral-Rat LD50 • >5000 mg/kg; Inhalation-Rat LC50 • 1.81 mg/L 4 Hour(s); Skin-Rat LD50 • >2000 mg/kg

GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met
Skin corrosion/Irritation	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Classification criteria not met
Skin sensitization	OSHA HCS 2012 • Skin Sensitizer 1
Respiratory sensitization	OSHA HCS 2012 • Respiratory Sensitizer 1A
Aspiration Hazard	OSHA HCS 2012 • Classification criteria not met
Carcinogenicity	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Not classified - data lacking.
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Classification criteria not met

STOT-RE

OSHA HCS 2012 • Classification criteria not met

Potential Health Effects**Inhalation**

- Acute (Immediate)** • May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Chronic (Delayed)** • No data available.

Skin

- Acute (Immediate)** • Exposure to dust may cause mechanical irritation. May cause an allergic skin reaction in individuals with a sensitivity to Barricade.
- Chronic (Delayed)** • No data available.

Eye

- Acute (Immediate)** • May cause eye irritation.
- Chronic (Delayed)** • No data available.

Ingestion

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available.

Other

- Chronic (Delayed)** • No data available.

Mutagenic Effects

- No data available.

Carcinogenic Effects

- No component of this product present at 0.1% or greater is listed by IARC, OSHA or NTP.

Reproductive Effects

- Barricade: Fetal toxicity at high dose levels (rats); development and maternal toxicity observed at 1 g/kg/day.

Section 12 - Ecological Information**Toxicity**

Components		
Barricade (0.58%)	29091-21-2	Aquatic Toxicity-Fish: 96 Hour(s) LC50 <i>Rainbow Trout</i> 0.83 mg/L
		96 Hour(s) LC50 <i>Bluegill Sunfish</i> 0.55 mg/L
		Aquatic Toxicity-Crustacea: 48 Hour(s) LC50 Water Flea <i>Daphnia magna</i> 0.66 mg/L

Persistence and degradability

- Barricade: Persistent in soil.

Bioaccumulative potential

- Barricade: Does not bioaccumulate.

Mobility in Soil

- Barricade: Stable in water. Immobile in soil. Sinks in water (after 24 hours).

Other adverse effects**Potential Environmental Effects**

- No data available.

Section 13 - Disposal Considerations**Waste treatment methods****Product waste**

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Nonrefillable container. Do not reuse or refill container. See product label for container disposal instructions.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable
IMO/IMDG	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable
IATA/ICAO	Not Applicable	Not Regulated	Not Applicable	Not Applicable	Not Applicable

Special precautions for user • None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code • No data available

Other information

IMO/IMDG • No data available

IATA/ICAO • No data available

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute

FIFRA – Pesticide Labeling

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION

Precautionary Statements • KEEP OUT OF THE REACH OF CHILDREN.

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.

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 to rinse eye. Call a Poison Control Center or doctor for treatment advice. If 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 doctor. 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 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.

Environmental Hazards • To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment 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 runoff to water bodies or drainage systems.

Inventory		
Component	CAS	TSCA
Barricade	29091-21-2	Yes

Section 16 - Other Information

- Revision Date** • 16/September/2016
- Last Revision Date** • 16/September/2016
- Preparation Date** • 16/September/2016
- Disclaimer/Statement of Liability** • The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.

32806-61

8/7/2014

11/18



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

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

AUG - 7 2014

Subject: Label Amendment
Name: Crabgrass Preventer Plus with .58 Barricade
Preemergence Herbicide
EPA Registration No.: 32802-67
Decision No.: 489190
Application Date: February 28, 2014

Dear Ms. Danowski:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) 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.

If you have any questions regarding this letter, please feel free to contact Shanta Adeeb at (703) 347-0502 or adeeb.shanta@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Kathryn V. Montague".

Kathryn Montague
Product Manager 23
Herbicide Branch
Registration Division (7505P)

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HJE 32802-67

CRABGRASS PREVENTER PLUS WITH .58% BARRICADE® PREEMERGENCE HERBICIDE

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

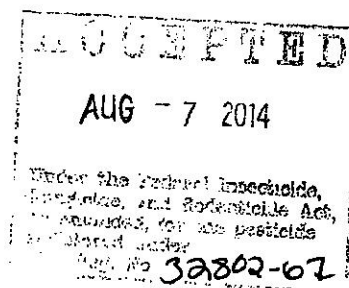
FOR SELECTIVE PREEMERGENCE CONTROL OF GRASS and BROADLEAF WEEDS IN RESIDENTIAL LAWNS

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.	

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HJE 32802-67

(Optional additional guarantee statement)

[ALSO CONTAINS NON PLANT FOOD INGREDIENTS.
SOIL AMENDING GUARANTEED ANALYSIS

Active Ingredients:

Mycorrhizal Fungi.....	1.12 props/gm
<i>Glomus intraradices</i>	0.28 props/gm
<i>Glomus mosseae</i>	0.28 props/gm
<i>Glomus etunicatum</i>	0.28props/gm
<i>Glomus aggregatum</i>	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

Lot code:
Expiration Date:

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 "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.

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

NET WEIGHT: [XXX lbs as needed]

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. Wash thoroughly with soap and water after handling. Prolonged or repeated skin contact with product may cause allergic reactions in some individuals.

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.

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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 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.	

USE PRECAUTIONS: The following precautions apply to the use of this product in residential lawns. Application of this product may thin emerged annual bluegrass and newly overseeded grasses. Do not apply to overseeded turf within 60 days after seeding or until after the second mowing, whichever is longer. Injury to desirable seedlings is likely if this product is applied before seedling secondary roots are in the second inch of soil (not thatch plus soil). Do not apply to newly set sod until the following year. Application to turf stressed by drought, low fertility, or pest damage may result in turf injury. Disturbing the herbicide barrier with cultural practices (such as core aeration) may result in reduced weed control. Do not apply 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.

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 turf being grown for sale or other commercial use as sod, or for commercial seed production, or for research purposes.

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 6 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.]

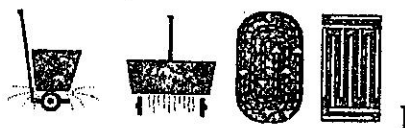
WHEN TO APPLY TO ESTABLISHED TURF: This product must be applied prior to germination of weed seed, as it will not control established weeds.

[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]	[6 lbs]
Spreader A					

(May contain additional spreader brands/models, spreader settings and spreader use instructions as appropriate for the product)

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: This product is recommended for use on the turf grass species listed in the following table. The maximum amount of this product that may be applied per year is given for each turf grass species. Do not exceed 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)	6 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 recommended for each turf species. The length of time of residual weed control provided by this product is related to the rate applied. Use the higher rates listed for longer periods of weed control.]

[WHEN TO OVERSEED AFTER APPLICATION: This product will inhibit germination of turf seed if overseeded too soon after application. Follow rates and intervals in table for best overseeding/ reseeding results.

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

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

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.

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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%

RECEIVED
AUG - 7 2014
This is a restricted use pesticide.
It is not for use on lawns, golf courses, or ornamentals.
32802-67

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 etunicatum0.28props/gm
 Glomus aggregatum0.28props/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

Lot code:

Expiration Date:

]

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 "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.

(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. Wash thoroughly with soap and water after handling. Prolonged or repeated skin contact with product may cause allergic reactions in some individuals.

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 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.	

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.

USE PRECAUTIONS: The following precautions apply to the use of this product in turf grasses and lawns. Application of this product may thin emerged annual bluegrass and newly overseeded grasses. Do not apply to overseeded turf within 60 days after seeding or until after the second mowing, whichever is longer. Injury to desirable seedlings is likely if this product is applied before seedling secondary roots are in the second inch of soil (not thatch plus soil). Do not apply to newly set sod until the following year. Application to turf stressed by drought, low fertility, or pest damage may result in turf injury. Disturbing the herbicide barrier with cultural practices (such as core aeration) may result in reduced weed control. Do not apply to putting greens, or areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (*Poa annua*) are desirable species. Do not apply through any type of irrigation system. Do not apply aerially. Do not graze or feed livestock forage cut from treated areas. 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.

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.

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 6 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.]

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: This product is recommended for use on the turf grass species listed in the following table. The maximum amount of this product that may be applied per year is given for each turf grass species. Do not exceed the maximum yearly rate listed:

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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)	6 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)
<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>		

(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]	[6 lbs]
Spreader A					
(May contain additional spreader brands/models, spreader settings and spreader use instructions as appropriate for the product)					

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 recommended for each turf species. The length of time of residual weed control provided by this product is related to the rate applied. Use the higher rates listed for longer periods of weed control.

WHEN TO OVERSEED AFTER APPLICATION: This product will inhibit germination of turf seed if overseeded too soon after application. Follow rates and intervals in table for best overseeding/ reseeded results.

Use Rate Lbs/1000 sq ft	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)

SCIENTIFIC NAME

Abies spp
Abelia grandiflora
Acer palmatum
A. platanoides
Achillea spp.
Actinidia chinensis
Agapanthus africanus
Agapanthus orientalis
Akebia quinata
Allium cernuum
Anemone hybrida
Aquilegia spp.
Arctostaphylos densiflora
Arctotheca calendula
Artemisia spp.
Aster spp.
Aster X Frikartii
Athyrium filix-femina
Aucuba japonica
Begonia spp.
Berberis gladiolensis
B. julianae
B. mentorensis
B. thunbergii
B. verruculosa

COMMON NAME

Fir species** (Balsam, Fraser, Noble, etc.)
Abelia: Sherwood
Japanese Maple
Norway Maple
Yarrow, King Edward
Kiwi*
Lily-of-the-Nile (African Lily)

Five-Leaf or Chocolate Vine
Lady's Leek, Nodding Onion
Japanese Anemone
Aquilegia: Red and Gold
Vine Hill Manzanita
Cape Weed
Wormwood: Silver Mound, Castle
Aster: Bonnie Blue, Purple Dome

Lady Fern; Fern Lady
Japanese Aucuba
Fibrous Begonia: Hardy Grandis
Barberry
Wintergreen Barberry
Mentor Barberry
Japanese Barberry
Warty Barberry

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<i>I. opaca</i>	American Holly
<i>I. vomitoria</i>	Yaupon Holly, Schillings
<i>Inula ensifolia</i>	
<i>Iris ensata</i>	Sword-Leaved Iris; Jodlesong
<i>Iris siberica</i>	Siberian Iris; Cabernet
<i>Iris spp.</i>	Iris species**
<i>Jasminum nudiflorum</i>	Winter Jasmine
<i>Juniperus chinensis</i>	Chinese Juniper; Nick's Compact; Parsonii
<i>J. conferta</i>	Shore Juniper; Blue Pacific
<i>J. davuria</i>	Parsoni
<i>J. horizontalis</i>	Creeping Juniper
<i>Juglans spp.</i>	Walnut*
<i>Justicia brandegeana</i>	Shrimp Plant
<i>Lagerstromia indica</i>	Grape Myrtle
<i>Lagerstromia indica X Fauriei</i>	Grape Myrtle, Tuscarora
<i>Lantana montevidensis</i>	Weeping Lantana
<i>Lavender spp.</i>	Lavender; Munstead
<i>Leonopodium alpinum</i>	Edelweiss
<i>Ligustrum amurense</i>	Amur Privet
<i>Ligustrum sinense</i>	Chinese privet, Variegata
<i>L. japonicum</i>	Japanese Privet
<i>L. lucidum</i>	Glossy Privet (Waxleaf)
<i>Lilium spp.</i>	Lily; Jazz
<u>SCIENTIFIC NAME</u>	<u>COMMON NAME</u>
<i>Liriope muscari</i>	Big Blue Lily; Silver Mound, Evergreen Giant
<i>Liriope muscari var. variegata</i>	Liriope, variegated
<i>Liriope spicata</i>	Liriope, Creeping
<i>Lobelia Cardinalis</i>	Cardinal Flower, Indian Pink
<i>Lonicera japonica</i>	Japanese Honeysuckle
<i>L. tatarica</i>	Tatarian Honeysuckle
<i>Lorapetalum chinense</i>	Burgundy
<i>Lythrum spp.</i>	Loosestrife; Modern Pink
<i>Magnolia spp.</i>	Magnolia species**
<i>Maleophora luteola</i>	Ice Plant
<i>Malus sp.</i>	Crabapple*
<i>Miscanthus sinensis</i>	Yaku Jima, Silberfeder
<i>Nandina domestica</i>	Heavenly Bamboo
<i>Narcissus spp.</i>	Narcissus species**
<i>Nerium oleander</i>	Oleander
<i>Olea europaea</i>	Olive*
<i>Ophiopogon japonicus</i>	Mondo Grass
<i>Osmanthus heterophyllus</i>	Osmanthus (False Holly); Gulf Tide
<i>Osteospermum fruticosum</i>	Trailing African Daisy
<i>Oxydendrum arboreum</i>	Sourwood
<i>Paeonia suffruticosa</i>	Tree Peony
<i>Pennisetumsetaceum</i>	Fountain Grass (Dwarf)
<i>Perovskia atriplicifolia</i>	
<i>Persea americana</i>	Avocado*
<i>Photinia fraseri</i>	Frasier's Photinia (Redtip)
<i>Physotegia Virginiana</i>	Dragonhead, False; Vivid
<i>Picea spp.</i>	Spruce species** (Colorado Blue, Norway)
<i>Pieris japonica</i>	Lily-of-the-Valley Bush
<i>Pinus brutia</i>	Calabrian Pine
<i>P. canariensis</i>	Canary Island Pine
<i>P. elliotii</i>	Slash Pine
<i>P. halepensis</i>	Aleppo Pine
<i>P. nigra</i>	Austrian Pine
<i>P. radiata</i>	Monterey Pine
<i>P. strobus</i>	Eastern White Pine
<i>P. sylvestris</i>	Scotch Pine

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<i>P. taeda</i>	Loblolly Pine
<i>P. thunbergiana</i>	Japanese Black Pine
<i>P. virginiana</i>	Virginia Pine
<i>Pistachio sp.</i>	Pistachio*
<i>Pittosporum rhombifolium</i>	Queensland Pittosporum
<i>P. tobira</i>	Japanese Pittosporum
<i>Podocarpus macrophyllus</i>	Japanese Yew
<i>Prunus laurocerasus</i>	English Laurel
<i>Prunus sp.</i>	Almond, Apricot, Nectarine
	Peach, Plum and Prune*
<i>Pseudotsuga menziesii</i>	Douglas Fir**
<i>Pyracantha coccinea</i>	Firethorn (Scarlet)
<i>P. fortuneana</i>	Firethorn
<i>P. koidzumii</i>	Firethorn
<i>Pyrus sp.</i>	Bradford Pear spp.
<i>Quercus shumardii</i>	Oak, Shumard's Red
<i>Quercus spp.</i>	Oak species
<i>Raphiolepis indica</i>	Indian Hawthorne
<i>Raphiolepis umbellata</i>	Yedda hawthorne
<i>Rhododendron</i>	'Coral Bells,' 'Formosa,' 'Hino-crimson,' 'PJM'
(including <i>Azalea</i>)	'Delaware Valley White,' 'Roseum Elegans,'
	'Flame Creeper,' 'Girard Crimson,' 'Wakeiebisu,'
	'White Gumbo,' 'George L. Tabor'
<i>Rosa banksiae</i>	Lady Bank's Rose

SCIENTIFIC NAME

COMMON NAME

<i>Rosmarinus officinalis</i>	Rosemary*
<i>Rudbeckia spp.</i>	Black-eyed Susan; Goldsturm
<i>Santolina virens</i>	Santolina
<i>Saxifrage spp.</i>	Saxifrage; Purple Dome
<i>Scabiosa spp.</i>	Pincushion Flower
<i>Sedum album</i>	Stonecrop
<i>Sedum cauticola</i>	Stonecrop; Lidakense
<i>Sedum dasphyllum</i>	Stonecrop
<i>Sedum spurium</i>	Stonecrop; Dragon's Blood
<i>Spiraea burnalda</i>	Spiraea; Anthony Waterer
<i>Syzygium paniculatum</i>	Australian Brushcherry
<i>Taxus cuspidata</i>	Japanese Yew
<i>T. media</i>	Yew
<i>Teucrium spp.</i>	Germander
<i>Thalictrum dipterocarpum</i>	Meadow Rue
<i>Thuja occidentalis</i>	American Arborvitae
<i>Trachelospermum asiaticum</i>	Star Jasmine
<i>Tsuga canadensis</i>	Canada Hemlock
<i>Yulipa spp.</i>	Tulip species
<i>Veronica spp.</i>	Veronica, Speedwell; sunny Border
<i>Viburnum japonicum</i>	Japanese Viburnum
<i>V. odoratissimum</i>	Sweet Viburnum
<i>V. plicatum</i>	Japanese Snowball
<i>V. rigidum</i>	Canary Island Viburnum
<i>V. tinus</i>	Laurustinus
<i>V. trilobium</i>	Cranberry Bush
<i>V. wrightii</i>	Leatherleaf Viburnum
<i>Vinca major</i>	Greater Periwinkle, Vinca
<i>Vinca minor</i>	Common Periwinkle, Vinca
<i>Vitis sp.</i>	Grape*
<i>Weigela florida</i>	Old Fashioned Weigela
<i>Yucca aloifolia</i>	Spanish Bayonet, Yucca
<i>Y. filamentosa</i>	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 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. 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.

(

(Optional statement for Proposition 65 in California)

NOTICE- This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm."

(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 7 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 6 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.)

(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 [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]

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

Additional Copy

The Pennington® UltraGreen® Difference

Pennington® UltraGreen® products are more efficient than other fertilizers. Half of the nitrogen in this premium 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, natural 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

- Promotes thick, green grass
- Half of the total nitrogen in this product is slow-release and feeds for 3 months [guaranteed]
- Half of the total nitrogen is stabilized for less leaching into the environment
- Phosphorus-free

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