

35512-51

10-28-2008

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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Mrs. Rebecca M. Horton  
Consultant/Agent for  
Howard Fertilizer & Chemical Co., Inc.  
118 ½ East Main Street - Suite 1  
Salem, VA 24153-3805

OCT 28 2008

RE: Notification to add non-FIFRA related text for compliance with Florida Urban Turf Rule requirements for commercial fertilizer use  
Registration Number: 35512-51  
Submission Dated: August 27, 2008

Dear Mrs. Horton:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated, August 27, 2008, for the product, Turf Pride® Fertilizer with 0.25% Prodiamine. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the actions requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at 703-305-6249 or Joyce Edwards of my staff at 703-308-5479.

Sincerely yours,

A handwritten signature in black ink, appearing to be "Linda Arrington".

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs

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	United States <b>Environmental Protection Agency</b> Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
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**Application for Pesticide - Section I**

1. Company/Product Number 35512-51	2. EPA Product Manager Miller	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Turf Pride® Fertilizer with 0.25% Prodiamine	PM# 23	
5. Name and Address of Applicant (Include ZIP Code) Howard Fertilizer & Chemical Co., Inc. P.O. Box 628202 Orlando, FL 32862-8202 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____  Product Name _____

**Section - II**

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

NOTIFICATION of: (1) to add non-FIFRA related text for compliance with Florida Urban Turf Rule requirements for commercial fertilizer use.

This notification is consistent with the provisions of PR Notice 98-10 and the requirements of EPA regulations at 40 CFR 152.46. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. Howard Fertilizer & Chemical Co., Inc. understands that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA, and further understands that if the amended label is not consistent with the requirements of 40 CFR 152.46, this product may be in violation of FIFRA and Howard Fertilizer & Chemical Co., Inc. may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

**Section - III**

**1. Material This Product Will Be Packaged In:**

Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input checked="" type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted If "Yes" Unit Packaging wgt.    No. per container		If "Yes" Package wgt    No. per container	

3. Location of Net Contents Information  
 Label     Container

4. Size(s) Retail Container  
 50#

5. Location of Label Directions  
 on label

6. Manner in Which Label is Affixed to Product  
 Lithograph  
 Paper glued  
 Stenciled     Other plastic sleeve insert

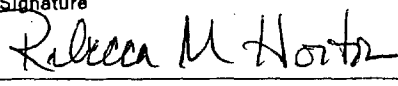
**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Rebecca M. Horton	Title Consultant/Agent for Howard Fertilizer & Chemical Co., Inc.	Telephone No. (Include Area Code) 540-375-8826
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**Certification**

I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2. Signature 	3. Title Consultant/Agent for Howard Fertilizer & Chemical Co., Inc.	6. Date Application Received (Stamped)
4. Typed Name Rebecca M. Horton	5. Date 8/27/08	

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# Registrations by Design, Inc.™

118 1/2 East Main Street  
Suite 1  
Salem, VA 24153-3805  
phone 540.375.8826  
fax 540.375.8827

CERTIFIED MAIL #7007 2680 0002 5827 6819  
August 27, 2008

Document Processing Desk (NOTIF)  
Office of Pesticide Programs/Reg. Div. (7505P)  
U.S. Environmental Protection Agency  
Ariel Rios Bldg.  
1200 Pennsylvania Ave., NW  
Washington, DC 20460

- Re: NOTIFICATION FOR COMPLIANCE WITH PR NOTICE 98-10
- EPA Reg. No. 35512-14, Turf Pride Weeder
  - EPA Reg. No. 35512-37, Turf Pride Fertilizer + Preemergent Weed Control
  - EPA Reg. No. 35512-43, Turf Pride Fertilizer with 1% Ronstar
  - EPA Reg. No. 35512-46, Turf Pride 92 Weed & Feed
  - EPA Reg. No. 35512-48, Turf Pride 115 Weed & Feed
  - EPA Reg. No. 35512-49, Turf Pride Fertilizer with 2% Sevin Brand Carbaryl Insecticide
  - EPA Reg. No. 35512-50, Turf Pride Fertilizer with 0.50% Prodiamine
  - EPA Reg. No. 35512-51, Turf Pride Fertilizer with 0.25% Prodiamine
  - EPA Reg. No. 35512-52, Turf Pride Fertilizer with 0.069% Bifenthrin Insecticide
  - EPA Reg. No. 35512-54, Turf Pride Fertilizer with 0.096% Bifenthrin Insecticide
  - EPA Reg. No. 35512-55, Turf Pride Fertilizer with 0.055% Bifenthrin Insecticide
  - EPA Reg. No. 35512-56, Turf Pride Lawn Food with Trimec Herbicide
  - EPA Reg. No. 35512-57, Turf Pride Fertilizer with 0.67% Ronstar
  - EPA Reg. No. 35512-58, Turf Pride Fertilizer with 0.50% Ronstar

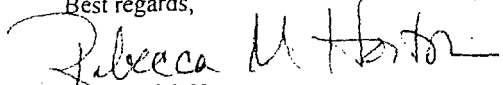
Attn: Linda Arrington  
Notifications & Minor Formulations Team Leader

On behalf of Howard Fertilizer & Chemical Co., Inc. of Orlando, Florida, enclosed is notification of non-FIFRA related text for compliance with Florida Urban Turf Rule requirements for use of the commercial fertilizers referenced above.

The following documents are enclosed:

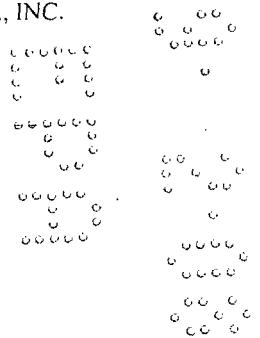
- 1) EPA Form #8570-1, Application for Pesticide – Notification (2 copies)
- 2) Copy of the proposed label with revision highlighted in blue.

If further action or information is required on Howard Fertilizer & Chemical Co., Inc's behalf, please advise.

Best regards,  


Rebecca M. Horton  
Consultant/Agent for  
HOWARD FERTILIZER & CHEMICAL CO., INC.  
e-mail: [hortonb@ntelos.net](mailto:hortonb@ntelos.net)

RH/alb  
Enclosures



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[MASTER LABEL – COMMERCIAL USE]

# TURF PRIDE® FERTILIZER with 0.25% PRODIAMINE

[Additional Brand Name(s): Turf Pride® AccuBlend™ Fertilizer with 0.25% Prodiamine; John Deere® Fertilizer with 0.25% Prodiamine; Turf Pride® AccuBlend™ Fertilizer with 0.25% Barricade Pre-Emergence Herbicide]

## PRE-EMERGENCE HERBICIDE

For pre-emergence control of weed grasses and broadleaf weeds in established turf grasses, lawns, golf course fairways (not for putting greens), and sod farms. Use around landscape ornamentals, including established perennials and wildflower plantings.

### ACTIVE INGREDIENT:

Prodiamine*	0.25%
OTHER INGREDIENTS:	99.75%
Total	100.00%

\* (CAS No. 2909-21-2)

NET WT 50 POUNDS (22.7 kg)

READ ENTIRE LABEL BEFORE USING

<b>KEEP OUT OF REACH OF CHILDREN CAUTION</b>	
<b>FIRST AID</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the National Pesticide Information Center at 1-800-858-7378 for emergency medical treatment information.	
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If in Eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>

<p><b>PRECAUTIONARY STATEMENTS</b></p> <p><b>HAZARDS TO HUMANS AND DOMESTIC ANIMALS</b></p> <p><b>CAUTION:</b> 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 frequent repeated skin contact while handling the material may cause allergic reactions in some individuals.</p>
<p><b>PERSONAL PROTECTIVE EQUIPMENT (PPE)</b></p> <p>Applicators and other handlers must wear long-sleeved shirt and long pants; chemical resistant gloves; shoes plus socks; and a dust mask. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.</p>
<p><b>User Safety Recommendations</b></p> <p><u>Users should:</u> Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.</p>
<p><b>ENVIRONMENTAL HAZARDS</b></p> <p>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.</p>

### DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Do not graze or feed livestock forage or hay cut from areas treated with this product. Do not apply aerially. Failure to follow the directions for use and precautions on this label may result in poor weed control, illegal residues, damaged turf or ornamental plants.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests and nurseries and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) notification to workers, and restricted-entry intervals. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (sod farms, commercial nurseries).

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours. PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls; chemical resistant gloves such as butyl rubber > 14 mils or natural rubber > 14 mils or Nitrile rubber > 14 mils; and shoes plus socks.

### NON-AGRICULTURAL USE REQUIREMENTS

The requirements of this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR part 170). The "WPS" applies when this product is used to produce agricultural plants on farms, forests, or nurseries. Applicators and handlers should wear long-sleeved shirt, long pants, chemical resistant gloves, shoes with socks, and protective eyewear. Thoroughly wash face and hands with soap and water after exposure and before eating or smoking. Launder exposed clothing before reuse. Do not allow reentry to treated areas until dusts have settled and the turfgrass or soil is dry.



Zone	Approximate Dates of Crabgrass Germination
Northern Zone	After May 10
Transitional Zone	After April 20
Upper Southern Zone	After Mar. 20
Southern States	Jan 1 to Mar. 20

This product is a turf fertilizer and a pre-emergence herbicide that provides residual control of many grass and broadleaf weeds in established turf grasses, golf courses (excluding putting greens), for sod farms, and lawns, and around landscape ornamentals, established perennials and wildflower plantings. It controls susceptible weeds by inhibiting weed seed germination and root development. Most effective weed control will be obtained when this product is activated by at least 1/8 inch of rainfall, irrigation, or shallow (1 to 2 inches) incorporation, prior to weed seed germination and within 14 days following application. Do not graze or feed livestock forage cut from areas treated with this product. Do not apply aerially. Do not apply to golf course putting greens. Failure to follow the directions for use and precautions on this label may result in poor weed control, crop injury, or illegal residues.

### APPLICATION DIRECTIONS

Apply uniformly with suitable calibrated application equipment. Do not apply otherwise.

### ESTABLISHED TURF

This product is a pre-emergence herbicide that, when properly applied, will control certain grass and broadleaf weeds in established turf grasses and lawns. The maximum amount of material that may be applied per year is given for each turf grass species in the **Maximum Annual Rates** section of this label. Most effective weed control in turf grasses will be obtained

when this product is activated by at least 1/2 inch of rainfall or irrigation prior to weed seed germination and within 14 days following application. See map for approximate crabgrass seed germination dates.

**USE PRECAUTIONS**

The following precautions apply to the use of this product in turf grasses and lawns: (1) Application of this product may thin emerged annual bluegrass and newly overseeded grasses. (2) 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. (3) Do not cut (harvest) treated sod before 120 days after application. Do not apply to newly set sod until the following year. (4) Application to turf stressed by drought, low fertility, or pest damage may result in turf injury. (5) Disturbing the herbicide barrier with cultural practices such as disking may result in reduced weed control. (6) Do not apply this product to putting greens, or areas where dichondra, colonial bentgrass, velvet bentgrass, or annual bluegrass (*Poa annua*) are desirable species.

**Rates of Application**

This product may be applied as a single application or in sequential applications to control weeds germinating throughout the year. All applications must be made prior to germination of the target weeds. This product will not control established weeds. Maximum use rate selection should be based on turf species. The length of time of residual pre-emergence weed control provided by this product is related to the rate applied.

**MAXIMUM ANNUAL RATES**

This product is recommended for use on the turf grass species listed in the following table. Do not exceed the maximum yearly rate as given in the following table.

Maximum application rate of this product per calendar year by turfgrass species (1)		
Turf Species	Lbs. Product/Acre	Lbs. a.i./Acre
Creeping Bentgrass	260 lbs.	0.65 lbs
Creeping Red Fescue	300 lbs.	0.75 lbs.
Buffalograss Kentucky Bluegrass Perennial Ryegrass	400 lbs.	1.00 lbs.
Bermudagrass (2) Bahia grass Centipede grass Seashore Paspalum St. Augustine grass Tall Fescue (including turf type) Zoysia	600 lbs.	1.50 lbs.

- (1) These are the maximum rates per calendar year by species limitations.
- (2) May be used on newly-sprigged or plugged Bermudagrass at rates not to exceed 200 lbs. per acre. Newly-sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded. Suppression only of Foxtail, Goosegrass and Rescuegrass due to reduced product rates used in sprigging situations.
- Do not apply more than 300 lbs. of this product to the same area per calendar year.
- Use the higher rates of this product to achieve higher levels of fertility and longer periods of weed control for each turf type, but do not exceed the maximum application rates as specified in the Maximum Annual Rates table.

**WEEDS CONTROLLED**

When used in accordance with this label, this product will provide control of the following weeds.

Barnyardgrass	Henbit	Purslane, Common
Bluegrass, Annual ( <i>Poa annua</i> )	Itchgrass	Pusley, Florida
Carpelweed	Johnsongrass	Rescuegrass (3)
Chickweed, Common	(from seed)	Shepherd's Purse (2)
Chickweed, Mouseear (from seed)	Junglerice	Signalgrass, Broadleaf
Crabgrass (Large, Smooth)	Knotweed	Speedwell, Persian
Crowfootgrass	Kochia	Sprangletop
Cupgrass, Woolly	Lambsquarter, Common	Spurge, Prostrate
Foxtails, Annual	Lovegrass	Witchgrass
Goosegrass (1)	Panicum (Texas, Fall, Brown top)	Woodsorrel, Yellow (from seed)
	Pigweed	

- (1) In many areas a single application of 260 to 600 lbs. per acre will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season, most effective weed control may be obtained by making an initial application of 260 to 400 lbs. per acre followed after 60 to 90 days by a second application at doses that would not exceed those give in the Maximum Annual Rates table. Do not exceed the maximum rate for turf grass species listed in the Maximum Annual Rates table on this label.
- (2) Application for Shepherd's purse should be made in late summer, fall, or winter prior to germination.
- (3) Suppression only of rescuegrass.

Sequential application 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. All applications must be made prior to germination of the weed seeds.

**WHEN TO APPLY AFTER OVERSEEDING TURF**

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.

**WHEN TO OVERSEED AFTER APPLICATION**

This product will inhibit the germination of turf species if overseeded too soon after application. Follow rates and intervals in the table below for best overseeding and/or reseeding results.

Product Rate Lbs/Acre	Months Before Overseeding			
	a.i./Acre	Northern	Transition	Southern
200	0.50	4	4	4
260	0.65	5	4	4
300	0.75	6	5	5
320	0.80	-	6	6
400	1.00	-	7	7
456	1.14	-	-	9
520	1.30	-	-	10
600	1.50	-	-	12



**Application Equipment and Spreader Settings**

The size and bulk density of granules in this product may vary; therefore, calibrate your granular applicator prior to application of this product. Follow directions in the owner's manual for calibrating your spreader. The settings indicated in the following table should only be used as a guide in calibrating your spreader.

SPREADER SETTINGS				
To apply the recommended amounts of a.i./acre				
Which are as follows:	0.65 lb	0.75 lb	1.0 lb	1.50 lb
50 lbs. treats sq. ft.:	8,375	7,256	5,446	3,631
<b>Spreader Settings</b>				
Scott's Evergreen 18"	#XX	#XX	#XX	#XX
Scott's Speedy Broadcast	#XX	#XX	#XX	#XX
Red Devil Broadcast	#XX	#XX	#XX	#XX
Republic EZ Drop 18"	#XX	#XX	#XX	#XX
Republic EZ Broadcast	#XX	#XX	#XX	#XX
Republic EZ Trctr. *	#XX	#XX	#XX	#XX
Scotts R8A	#XX	#XX	#XX	#XX
Lesco New	#XX	#XX	#XX	#XX

**LANDSCAPE ORNAMENTALS INCLUDING ESTABLISHED WILD FLOWER PLANTINGS**

This product may be applied for residual pre-emergence control around Ornamentals as listed.

**USE RATES**

Apply 260 to 600 lbs. per acre (5.97 lbs. to 13.77 lbs. per 1,000 sq. ft.) of landscape plants, 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 600 lbs. per acre.

**APPLICATION TIMING AND INFORMATION**

Apply uniformly to the surface of the soil in ornamental planting beds with a granular applicator. Calibrate your applicator to assure appropriate dosage as described above under "Use Rates", prior to application. Calibrate your applicator as described in the owner's manual. The bulk density of this product may vary; therefore, to assure that the product is applied at the rates described, you must use a calibrated applicator.

This product is a pre-emergence herbicide and will not control emerged weeds. Most effective weed control in ornamentals will be obtained when this product is activated by at least 1/2 inches of rainfall or irrigation, or with shallow (1 to 2 inches) mechanical incorporation, prior to weed seed germination and within 14 days following application.

Best weed control is obtained when this product is applied to soil free of clods, weeds, and debris such as leaves. Prior to application of this product, control existing vegetation by hand weeding, cultivation, or the use of an appropriate post-emergence herbicide.

**ESTABLISHED LANDSCAPE ORNAMENTALS**

This product may be applied to established ornamentals as a broadcast, over the top, or directed application. Irrigation or rainfall soon after application will wash residues off plant foliage and activate this product in the soil.

**NEWLY TRANSPLANTED LANDSCAPE ORNAMENTALS**

This product may be applied to newly transplanted ornamentals as a broadcast, over the top, or directed application. Delay application to allow soil to settle around new transplants and water thoroughly before applying this product. Apply after cuttings form roots and become established. Apply before budding/grafting or after buds/grafs have taken to avoid any inhibition of the tissue union. Irrigate after application as above directed.

**TOLERANT ORNAMENTAL SPECIES**

This product will not harm most trees, shrubs, vines and flowers. The species listed here are tolerant to this product. Best results will be obtained when this product is uniformly applied to the soil surface. This product may be applied over the top of these species, provided spray residue on shoots of plants is washed to the soil by over the top irrigation or by adequate rain soon after application.

For Use Around Landscape Ornamentals Including established perennials and wildflowers, as listed.	
Common Name	Scientific Name
Fir species** (Balsam, Fraser, Noble, etc.)	<i>Abies spp**</i>
Abelia: Sherwood	<i>Abelia grandiflora</i>
Japanese Maple	<i>Acer palmatum</i>
Norway Maple	<i>A. platanoides</i>
Yarrow: King Edward	<i>Achillea, sp.</i>
Kiwi*	<i>Actinidia chinensis*</i>
Lily-of-the-Nile (African lily)	<i>Agapanthus africanus</i>
	<i>Agapanthus orientalis</i>
Five-Leaf or Chocolate Vine	<i>Akebia quintata</i>
Lady's Leek, Nodding Onion	<i>Allium cernuum</i>
Japanese Anemone	<i>Anemone hybrida</i>
Aquilegia: Red and Gold	<i>Aquilegia sp.</i>
Vine Hill Manzanita	<i>Arctostaphylos densiflora</i>
Cape Weed	<i>Arctotheca calendula</i>
Wormwood: Silver Mound, Castle	<i>Artemisia sp.</i>
Aster: Bonny Blue, Purple Dome	<i>Aster sp.</i>
	<i>Aster X Frikartii</i>
Lady Fern; Fern Lady	<i>Athrium Filiz-femina</i>
Japanese Aucuba	<i>Aucuba japonica</i>
Fibrous Begonia: Hardy Grandis Barberr	<i>Begonia sp.</i>
Wintergreen	<i>Berberis gladwynensis</i>
Barberry	<i>B. julianae</i>
Mentor Barberry	<i>B. menlorensis</i>
Japanese Barberry	<i>B. thunbergii</i>
Warty Barberry	<i>B. verruculosa</i>
	<i>Bergenia cordifolia</i>
Snowbank	<i>Boltonia asteroids</i>
Bougainvillea	<i>Bougainvillea spp.</i>
Butterfly-Bush (Dward Blue): Royal Red	<i>Buddleia davidii</i>
Japanese Boxwood	<i>Buxus microphylla</i>
Weeping Bottlebrush	<i>Callistemon viminalis</i>
Scotch Heather	<i>Calluna vulgaris</i>
Tussock Bellflower (White Clips)	<i>Campanula carpatica</i>
Trumpet Creeper, Trumpet Flower, Madame Galen	<i>Campis X Tagliabuana</i>
Hottentot Fig (Ice Plant)	<i>Carpobrotus edulis</i>
Feathery Cassia	<i>Cassia artemisoides</i>
Wild Lilac	<i>Ceanothus rigidus</i>
	<i>Ceratostigma plumbagonoides</i>
False Cypress	<i>Chamaecyparis pisifera</i>
	<i>Chrysanthemum nipponicum</i>
Cleyera	<i>Cleyera japonica</i>
Citrus species*	<i>Citrus spp.*</i>
Coreopsis (Calliopsis): Early Sunnse, Moonbeam	<i>Coreopsis sp.</i>
Flowering Dogwood	<i>Cornus florida</i>
American Dogwood	<i>C. stolonifera</i>
Pampas Grass	<i>Cortaderia selloana</i>
Cranberry Cotoneaster	<i>Cotoneaster apiculatus</i>
Cotoneaster	<i>C. buxifolius</i>
Bearberry Cotoneaster	<i>C. dammeri</i>
Rockspray Cotoneaster	<i>C. microphyllus</i>
Hawthorne	<i>Cretaeus spp.</i>
Lucifer	<i>Crocosmia sp.</i>
Italian Cypress	<i>Cupressus sempervirens</i>
White Trailing Ice Plant	<i>Delosperma alba</i>
Cooperi Pink	<i>Delosperma sp.</i>
Larkspur: Blue Elf	<i>Delphinium sp.</i>
Dianthus: Maiden Pinks "Zing"	<i>Dianthus deltoids</i>
Cheddar Pink	<i>D. gratianopolitanus</i>
Hop Bush	<i>Dodonea viscosa</i>
Coneflower, Purple; Magnus	<i>Echinacea purpurea</i>
Silverberry	<i>Elaeagnus pungens</i>
Wintercreeper	<i>Euonymus fortunei</i>
Japanese Spindle Tree (Evergreen Euonymus)	<i>E. japonica</i>
Spreading Euonymus	<i>E. kiautschovica</i>
Japanese Aralia	<i>Fatsia japonica</i>
Border Forsythia	<i>Forsythia intermedia</i>
Weeping Forsythia	<i>F. suspensa</i>
Greenstem Forsythia	<i>F. viridissima</i>
Gaillardia, Blanket Flower: "Goblin"	<i>Gaillardia sp.</i>
Gardenia, Cape-Jasmine, Radicans.	<i>Gardenia jasminoides</i>
	<i>Gaura sp.</i>
Genian	<i>Gentiana dahurica</i>
Cranesbill	<i>Geranium cinereum</i>
Gladiolus species**	<i>Gladiolus spp.**</i>
Baby's Breath	<i>Gypsophila repens</i>
English Ivy	<i>Hedera helix</i>
Sunrose	<i>Hellianthemum sp.</i>
Daylily: Aztec Gold, Stella De Oro, Tender Love	<i>Hemerocallis sp.</i>
Rose of Sharon**	<i>Hibiscus</i>
Mallow: Disco Belle White	<i>Hibiscus sp.</i>
Chinese Hibiscus	<i>Hibiscus rosa-sinensis</i>
Hosta, Plantain Lily (Fragrant)	<i>Hosta plantaginea</i>
Hosta, "Searsucker"	<i>H. Sieboldiana</i>
	<i>Houttuynia cordata var. variegata</i>
Bigleaf Hydrangea	<i>Hydrangea macrophylla</i>
Chinese Holly	<i>Ilex cornuta</i>
Japanese Holly; Helleri	<i>I. crenata</i>
American Holly	<i>I. opaca</i>

For Use Around Landscape Ornamentals Including established perennials and wildflowers, as listed (cont'd.)	
Common Name	Scientific Name
Holly	<i>I. pernyi</i>
Yaupon Holly; Schillings	<i>I. vomatoria</i>
	<i>Inula ensifolia</i>
Sword-Leaved Iris; Jodelsong	<i>Iris ensata</i>
Siberian Iris; Cabernet	<i>Iris siberica</i>
Iris species**	<i>Iris spp.**</i>
Winter Jasmine	<i>Jasminium uditiflorum</i>
Chinese Juniper; Nick's Compact, Parsonnii	<i>Juniperus chinensis</i>
Shore Juniper; Blue Pacific	<i>J. conferta</i>
Parsoni	<i>J. davurca</i>
Creeping Juniper	<i>J. horizontalis</i>
Walnut*	<i>Juglans sp.</i>
Shrimp Plant	<i>Justicia brandegeana</i>
	<i>Lagerstromia</i>
Crape Myrtle	<i>Indica Lagerstromia indica X</i>
Crape Myrtle: Tuscarora	<i>Faunei</i>
Weeping Lantana	<i>Lantana montevidensis</i>
Lavender: Munstead	<i>Lavender sp.</i>
Edelweiss	<i>Leontopodium alpinum</i>
Chinese Privet; Variegata	<i>Ligustrum sinense</i>
Amur Privet	<i>L. amurense</i>
Japanese Privet	<i>L. japonicum</i>
Glossy Privet (Waxleaf)	<i>L. lucidum</i>
Lily: Jazz Big Blue Lily; Turf;	<i>Lilium sp.</i>
Silver Mound; Evergreen Giant	<i>Liriope muscari</i>
Liriope, Variegated	<i>Liriope Muscari var. variegata</i>
Liriope, Creeping	<i>Liriope spicata</i>
Cardinal Flower, Indian Pink	<i>Lobelia Cardinalis</i>
Japanese Honeysuckle	<i>Lonicera japonica</i>
Tatarian Honeysuckle	<i>L. tatarica</i>
Burgundy	<i>Loropetalum chinense</i>
Looseshrife; Modern Pink	<i>Lythrum sp.</i>
Magnolia species**	<i>Magnolia spp.**</i>
Ice Plant	<i>Maleophora luteola</i>
Crabapple*	<i>Malus sp.*</i>
Yaku Jima, Silberfeder	<i>Miscanthus sinensis</i>
Heavenly Bamboo	<i>Nandina domestica</i>
Narcissus species**	<i>Narcissus spp.**</i>
Oleander	<i>Nerium oleander</i>
Olive*	<i>Olea europea*</i>
Mondo Grass	<i>Ophiopogon japonicus</i>
Osmanthus (False Holly); Gulf Tide	<i>Osmanthus heterophyllus</i>
Trailing African Daisy	<i>Osteospermum fruticosum</i>
Sourwood	<i>Oxydendrum arboreum</i>
Tree Peony	<i>Paeonia suffruticosa</i>
Fountain Grass (Dwarf),	<i>Pennisetum setaceum</i>
	<i>Perovskia atriplicifolia</i>
Avocado*	<i>Persea americana</i>
Fraser's Photinia (Redlip)	<i>Photinia fraseri</i>
Dragonhead, False; Vivid	<i>Physotegia virginiana</i>
Spruce species** (Colorado, Blue, Norway, etc.)	<i>Picea spp.**</i>
Lily-of-the-Valley Bush	<i>Pieris japonica</i>
Calabrian Pine	<i>Pinus brutia</i>
Canary Island Pine	<i>P. canariensis</i>
Slash Pine	<i>P. elliotii</i>
Aleppo Pine	<i>P. halepensis</i>
Austrian Pine	<i>P. nigra</i>
Longleaf Pine	<i>P. palustris</i>
Monterey Pine	<i>P. radiata</i>
Japanese Black Pine	<i>P. thunbergiana</i>
Eastern White Pine	<i>P. strobus</i>
Scotch Pine	<i>P. sylvestris</i>
Loblolly Pine	<i>P. taeda</i>
Virginia Pine	<i>P. virginiana</i>
Pistachio*	<i>Pistachio sp.*</i>
Queensland Pittosporum Japanese	<i>Pittosporum rhombifolium</i>
Pittosporum	<i>P. tobira</i>
Japanese Yew	<i>Podocarpus macrophyllus</i>
English Laurel	<i>Prunus laurocerasus</i>
Almond, Apricot, Nectarine, Peach, Plum & Prune*	<i>Prunus sp.*</i>
Douglas Fir**	<i>Pseudotsuga menziesii**</i>
Firethorn (Scarlet)	<i>Pyracantha coccinea</i>
Firethorn	<i>P. fortuneana</i>
Firethorn	<i>P. koidzumii</i>
Bradford Pear sp.	<i>Pyrus sp.</i>
Oak, Shumard's Red	<i>Quercus shumardii</i>
Oak species	<i>Quercus spp.</i>
Indian Hawthorne	<i>Raphiolepis indica</i>
Yedda Hawthorn	<i>Raphiolepis umbellata</i>
Coral Bells, Delaware Valley White, Flame Creeper, Formosa, Girard Crimson, George L. Tabor, Minocrimson, P.J.M. Roseum Elegans, Wakeiebisu, White Gumbo	<i>Rhododendron (including Azalea)</i>
Lady Bank's Rose*	<i>Rosa banksiae*</i>
Rosemary*	<i>Rosmarinus officinalis*</i>
Black-Eyed Susan; Goldstrum	<i>Rudbeckia sp.</i>
Santolina	<i>Santolina virens*</i>
Saxifrage; Purple Dome	<i>Saxifraga sp.</i>
Pincushion Flower	<i>Scabiosa sp.</i>

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For Use Around Landscape Ornamentals Including established perennials and wildflowers, as listed (cont'd.)	
Common Name	Scientific Name
Stoncrop	<i>Sedum album</i>
Stoncrop; Lidakense	<i>Sedum caudicola</i>
Stoncrop	<i>Sedum dasyphyllum</i>
Stoncrop; Dragon's Blood	<i>Sedum spurium</i>
Spirea; Anthony Waterer	<i>Spiraea Bumalda</i>
Australian Brushcherry	<i>Syzygium paniculatum</i>
Japanese Yew	<i>Taxus cuspidata</i>
Yew	<i>T. media</i>
Germander	<i>Teucrium sp.</i>
Meadow Rue	<i>Thalictrum dipterocarpum</i>
American Arborvitae	<i>Thuja occidentalis</i>
Star Jasmine	<i>Trachelospermum asiaticum</i>
Canada Hemlock	<i>Tsuga canadensis</i>
Tulip species	<i>Tulipa spp.</i>
Veronica; Speedwell; Sunny Border	<i>Veronica sp.</i>
Japanese Viburnum	<i>Viburnum japonicum</i>
Sweet Viburnum	<i>V. odoratissimum</i>
Japanese Snowball	<i>V. plicatum</i>
Canary Island Viburnum	<i>V. rigidum</i>
Arrow wood Viburnum	<i>V. suspensum</i>
Laurustinus	<i>V. tinus</i>
Cranberry Bush	<i>V. trilobium</i>
Leatherleaf Viburnum	<i>V. wrightii</i>
Greater Periwinkle, Vinca	<i>Vinca major</i>
Common Periwinkle, Vinca	<i>Vinca minor</i>
Grape*	<i>Vitis sp.*</i>
Old Fashioned Weigela	<i>Weigela florida</i>
Spanish Bayonet, Yucca	<i>Yucca aloifolia</i>
Adam's Needle, Yucca	<i>Y. filamentosa</i>

\*Do not use on food producing trees, vines or plants  
\*\*Not for use on container grown plants.

### STORAGE & DISPOSAL

Do not contaminate water, food or feed by storage or disposal.  
**STORAGE:** Store in original container away from other fertilizer, feed, or foodstuffs and separated from other pesticides.  
**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:** Nonrefillable container. Do not reuse or refill empty bag. Completely empty bag into application equipment. Offer for recycling, if available, or, dispose of empty bag in a sanitary landfill or at an incineration facility or, if allowed by State and local authorities, by burning locally. If burned, stay out of smoke.

If product is spilled, sweep up and use as per label instructions or dispose of as indicated above.

### GUARANTEED FERTILIZER ANALYSIS X-X-X

Total Nitrogen (N)*	x.xx%
x.xx% Ammoniacal Nitrogen	
x.xx% Nitrate Nitrogen	
x.xx% Water Soluble (and/or Urea) Nitrogen	
x.xx% Water Insoluble Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	x.xx%
Soluble Potash (K <sub>2</sub> O)	x.xx%
Magnesium (Mg)	x.xx%
x.xx% Water Soluble Magnesium (Mg)	
Boron (B)	x.xx%
Total Copper (Cu)	x.xx%
x.xx% Water Soluble Copper (Cu)	
Total Iron (Fe)	x.xx%
x.xx% Water Soluble Iron (Fe)	
Total Manganese (Mn)	x.xx%
x.xx% Water Soluble Manganese (Mn)	
Molybdenum (Mo)	x.xx%
Total Zinc (Zn)	x.xx%
x.xx% Water Soluble Zinc (Zn)	

Derived from .....

\*x.xx% slowly available nitrogen from ...

Chlorine (Cl), not more than x.xx%.

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[For Florida: FLORIDA APPLICATIONS: For use on golf courses or other athletic turf in FL, we recommend you follow SL191, "Recommendations for N, P, K & Mg for Golf Course and Athletic Field Fertilization Base on Mehlich I Extractant", available on the internet at <http://edis.ifas.ufl.edu/SS404>.

FLORIDA APPLICATIONS: For commercial application to urban turf or lawns in FL, we recommend you follow the Best Management Practices for Protection of Water Resources in Florida, June 2002, Florida Green Industries, available on the internet at [http://www.dep.state.fl.us/central/Home/MeetingsTraining/FLGreen/BMP\\_Book\\_final.pdf](http://www.dep.state.fl.us/central/Home/MeetingsTraining/FLGreen/BMP_Book_final.pdf).]

### CONDITIONS OF SALE & WARRANTY

Read the entire Directions for Use, Conditions, Disclaimer of Warranties, and Limitation of Liability before using this product. If the terms are not acceptable, return the unopened container at once. By using this product, user and buyer accept the following Conditions, Disclaimer of Warranties, and Limitations of Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and should be followed carefully. However it is impossible to eliminate all risks associated with the use of this product. Injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of **Howard Fertilizer & Chemical Co., Inc.** All such risks shall be assumed by the user or buyer.  
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**HOWARD FERTILIZER & CHEMICAL CO., INC.**  
P.O. Box 628202, Orlando, FL 32862-8202

[Lot no. to be added at production]