

35512-51

9/1/2004

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (H7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:  
35512-51 ✓

Date of Issuance:  
SEP 1 - 2004

Term of Issuance:  
Conditional

NOTICE OF PESTICIDE:

Registration  
 Reregistration

Name of Pesticide Product:  
Turf Pride® Fertilizer  
With 0.25% Prodiamine

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):  
Howard Fertilizer & Chemical Co., Inc.  
P.O. Box 628202  
Orlando, FL 32862-8202

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is registered in accordance with FIFRA sec. 3(c) (7) (A) provided that you:

1. Add the phrase "EPA Registration No. 35512-51" to the label before you release the product for shipment.

COMMENTS CONTINUED ON PAGE 2 OF THIS NOTICE OF REGISTRATION

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product under the enclosed stamped copy of the label constitutes acceptance of these conditions.

Enclosure

Joanne I. Miller  
Product Manager (23)  
Herbicide Branch  
Registration Division (7505C)

Signature of Approving Official:

*Joanne I. Miller*

Date:

SEP 1 - 2004

2. Submit the following data required for the registration of this pesticide product within 1 year from the date of this Notice of Registration:

<u>EPA Guideline Data Number</u>	<u>Guideline Descriptor</u>
830.6317	Storage Stability Study
830.6320	Corrosion Characteristics Study

3. Revise the map showing "Approximate Dates of Crabgrass Germination" to reflect and discern "Upper Southern Zone" from "Southern States" on both the Commercial Use and Residential Use labeling.
4. On the Commercial Use labeling the parenthetical "(not for putting greens)" must follow "golf course fairways", not "sod farms".
5. On page 2 and 6, revise the chart "Months Before Overseeding" with foot notes describing "Northern, Transition and Southern" as these locations relate to where this product is to be marketed. Alternatively, show these locations on a map of the United States.
6. Add the **exclusionary statements on the "Residential Use"** labeling that follow the violation statement, under the "Directions of Use" to read: as directed by PR Notice 93-11, Supplement F; and that reads:

**"Not for use on plants being grown for sale or other commercial use, or 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 on lawns and grounds."**

In addition, the following restrictions should be added to both labels: "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."

7. Submit one (1) copy of the final printed labeling before you release this product for shipment.
8. Submit and/or cite all data required for the registration of this product when the Agency requires all registrants of similar products to submit data; and submit acceptable responses required for reregistration of this product under FIFRA, section 4. A Stamped copy of the label is enclosed for your records.

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Enclosure

# TURF PRIDE<sup>®</sup> FERTILIZER

## With 0.25% PRODIAMINE

### PRE-EMERGENCE HERBICIDE

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

<b>ACTIVE INGREDIENT:</b>	
Prodiamine	0.25%
<b>OTHER INGREDIENTS:</b>	
Total	99.75%
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>

<b>PRECAUTIONARY STATEMENTS</b>	
<b>HAZARDS TO HUMANS AND DOMESTIC ANIMALS</b>	
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 frequent repeated skin contact while handling the material may cause allergic reactions in some individuals.	
<b>PERSONAL PROTECTIVE EQUIPMENT (PPE)</b>	
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.	
<b>User Safety Recommendations</b>	
Users should: 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.	
<b>ENVIRONMENTAL HAZARDS</b>	
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.	

### 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.

### 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 nitrile 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.



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 1/2 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 airtally. 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 grass 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 seeding 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 diking 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) Bahiagrass Centipedegrass Seashore Paspalum St. Augustinegrass 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
Carpetweed	Johnsongrass (from seed)	Rescuegrass (3)
Chickweed, Common	Junglerice	Shepherd's Purse (2)
Chickweed, Mouseear (from seed)	Knotweed	Signalgrass, Broadleaf
Crabgrass (Large, Smooth)	Kochia	Speedwell, Persian
Crowfootgrass	Lambsquarter, Common	Sprangletop
Cupgrass, Woolly	Lovegrass	Spurge, Prostrate
Foxtails, Annual	Panicum (Texas, Fall, Browntop)	Witchgrass
Goosegrass (1)	Pigweed	Woodsorrel, Yellow (from seed)

- (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 given 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 seeding 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	a.i./Acre	Months Before Overseeding		
		Northern	Transition	Southern
200	0.50	4	4	4
280	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 Trcitr. *	#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 1/4 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/grafts 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 quinata</i>
Lady's Leek, Nodding Onion	<i>Allium cernuum</i>

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For Use Around Landscape Ornamentals Including established perennials and wildflowers, as listed (cont'd.)	
Common Name	Scientific Name
Japanese Anemone	<i>Anemone hybrida</i>
Aquilegia: Red and Gold	<i>Aquilegia</i> sp.
Vine Hill Manzanita	<i>Arctostaphylos densiflora</i>
Cape Weed	<i>Arctotheca calendula</i>
Wormwood; Silver Mound, Castle	<i>Artemisia</i> sp.
Aster: Bonny Blue, Purple Dome	<i>Aster</i> sp.
Lady Fern; Fern Lady	<i>Aster X Frikartii</i>
Japanese Aucuba	<i>Athrium Filix-femina</i>
Fibrous Begonia: Hardy Grandis Barberry	<i>Aucuba japonica</i>
Wintergreen	<i>Begonia</i> sp.
Barberry	<i>Berberis gladywimensis</i>
Mentor Barberry	<i>B. julianae</i>
Japanese Barberry	<i>B. mentorensis</i>
Warty Barberry	<i>B. thunbergii</i>
	<i>B. verruculosa</i>
Snowbank	<i>Bergenia cordifolia</i>
Bougainvillea	<i>Boltonia asteroids</i>
Butterfly-Bush (Dwarf Blue); Royal Red	<i>Bougainvillea</i> spp.
Japanese Boxwood	<i>Buddleia davidii</i>
Weeping Bottlebrush	<i>Buxus microphylla</i>
Scotch Heather	<i>Callistemon viminalis</i>
Tussock Bellflower (White Clips)	<i>Calluna vulgaris</i>
Trumpet Creeper, Trumpet Flower, Madame Galen	<i>Campanula carpatica</i>
Hottentot Fig (Ice Plant)	<i>Campis X Tagliabuana</i>
Feathery Cassia	<i>Carpobrotus edulis</i>
Wild Lilac	<i>Cassia artemisoides</i>
	<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</i> spp.*
Coreopsis (Calliopsis): Early Sunrise, Moonbeam	<i>Coreopsis</i> sp.
Flowering Dogwood	<i>Coreopsis florida</i>
American Dogwood	<i>C. stolonifera</i>
Pampas Grass	<i>Cortaderia selloana</i>
Cranberry Coloneaster	<i>Coloneaster apiculatus</i>
Coloneaster	<i>C. buxifolius</i>
Bearberry Coloneaster	<i>C. dammeri</i>
Rockspray Coloneaster	<i>C. microphyllus</i>
Hawthorne	<i>C. retaequs</i> sp.
Lucifer	<i>Crocosmia</i> sp.
Italian Cypress	<i>Cupressus sempervirens</i>
White Trailing Ice Plant	<i>Delosperma alba</i>
Cooperi Pink	<i>Delosperma</i> sp.
Larkspur: Blue Elf	<i>Delosperma</i> sp.
Dianthus: Maiden Pinks "Zing"	<i>Delphinium</i> sp.
Cheddar Pink	<i>Dianthus deltoids</i>
Hop Bush	<i>D. gratianopolitanus</i>
Coneflower, Purple: Magnus	<i>Dodonaea viscosa</i>
Silverberry	<i>Echinacea purpurea</i>
Wintercreeper	<i>Elaeagnus pungens</i>
Japanese Spindle Tree (Evergreen Euonymus)	<i>Euonymus fortunei</i>
Spreading Euonymus	<i>E. japonica</i>
Japanese Aralia	<i>E. kiautschovica</i>
Border Forsythia	<i>Fatsia japonica</i>
Weeping Forsythia	<i>Forsythia intermedia</i>
Greenstem Forsythia	<i>F. suspensa</i>
Sunrose	<i>F. viridissima</i>
Gaillardia, Blanket Flower: "Goblin"	<i>Gaillardia</i> sp.
Gardenia, Cape-Jasmine, Radicans	<i>Gardenia jasminoides</i>
	<i>Gaura</i> sp.
Gentian	<i>Gentiana dahurica</i>
Cranesbill	<i>Geranium cinereum</i>
Glaucous species**	<i>Glaucous</i> spp.**
Baby's Breath	<i>Gypsophila repens</i>
English Ivy	<i>Hedera helix</i>
Sunrose	<i>Hellenthemum</i> sp.
Daylily: Aztec Gold, Stella De Oro, Tender Love	<i>Hemerocallis</i> sp.
Rose of Sharon**	<i>Hibiscus</i>
Mallow: Disco Belle White	<i>Hibiscus</i> sp.
Chinese Hibiscus	<i>Hibiscus rosa-sinensis</i>
Hosta, Plantain Lily (Fragrant)	<i>Hosta plantaginea</i>
Hosta, "Searsucker"	<i>H. Sieboldiana</i>
	<i>Houttuynia cordata</i> var. <i>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>
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 sibirica</i>
Iris species**	<i>Iris</i> spp.**
Winter Jasmine	<i>Jasminium udiflorum</i>
Chinese Juniper; Nick's Compact, Parsonii	<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</i> sp.

For Use Around Landscape Ornamentals Including established perennials and wildflowers, as listed (cont'd.)	
Common Name	Scientific Name
Shrimp Plant	<i>Justicia brandegeana</i>
	<i>Lagerstromia</i>
Crape Myrtle	<i>Indica Lagerstromia indica X</i>
Lily; Jazz Big Blue Lily; Turf;	<i>Faunei</i>
Weeping Lantana	<i>Lantana montevidensis</i>
Lavender; Munslead	<i>Lavender</i> sp.
Edelweiss	<i>Leontopodium alpinum</i>
Chinese Privet; Vanegata	<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</i> sp.
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. laterica</i>
Burgundy	<i>Loropetalum chinense</i>
Loosestrife; Modern Pink	<i>Lythrum</i> sp.
Magnolia species**	<i>Magnolia</i> spp.**
Ice Plant	<i>Malephora luteola</i>
Crabapple*	<i>Malus</i> sp.*
Yaku Jima, Silberfeder	<i>Miscanthus sinensis</i>
Heavenly Bamboo	<i>Nandina domestica</i>
Narcissus species**	<i>Narcissus</i> spp.**
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 arborum</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 (Redtip)	<i>Photinia fraseri</i>
Dragonhead, False; Vivid	<i>Physotegia Virginiana</i>
Spruce species** (Colorado, Blue, Norway, etc.)	<i>Picea</i> spp.**
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. Elliottii</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</i> sp.*
Queenland 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</i> sp.*
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</i> sp.
Oak, Shumard's Red	<i>Quercus shumardii</i>
Oak species	<i>Quercus</i> spp.
Indian Hawthorne	<i>Raphiolepis indica</i>
Yedda Hawthorn	<i>Raphiolepis umbellata</i>
Coral Bell, Delaware Valley White, Flame Creeper, Formosa, Girard Crimson, George L. Tabor, Hino-crimson, P.J.M, Roseum Elegans, Wakelebisu, White Gumbo	<i>Rhododendron (including Azalea)</i>
Lady Bank's Rose*	<i>Rosa banksiae*</i>
Rosemary*	<i>Rosmarinus officinalis*</i>
Black-Eyed Susan; Goldsrum	<i>Rudbeckia</i> sp.
Santolina	<i>Santolina, virens</i>
Saxifrage; Purple Dome	<i>Saxifrage</i> sp.
Pincushion Flower	<i>Scabiosa</i> sp.
Stonecrop	<i>Sedum album</i>
Stonecrop; Lidakense	<i>Sedum cauticola</i>
Stonecrop	<i>Sedum dasyphyllum</i>
Stonecrop; Dragon's Blood	<i>Sedum spurium</i>
Spiraea; Anthony Waterer	<i>Spiraea Bumalda</i>
Australian Brushcherry	<i>Syzygium paniculatum</i>
Japanese Yew	<i>Taxus cuspidata</i>
Yew	<i>T. media</i>
Gemander	<i>Taenctum</i> sp.
Meadow Rue	<i>Thalictrum dipterocarpum</i>
American Arborvitae	<i>Thuja occidentalis</i>
Star Jasmine	<i>Trachelospermum asiaticum</i>
Canada Hemlock	<i>Tsuga canadensis</i>

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Tulip species	Tulipa spp.
Veronica, Speedwell; Sunny Border	Veronica sp.
Japanese Viburnum	Viburnum japonicum
Sweet Viburnum	V. odoratissimum
Japanese Snowball	V. plicatum
Canary Island Viburnum	V. rigidum
Arrow wood Viburnum	V. suspensum
Laurustinus	V. tinus
Cranberry Bush	V. trilobum
Leatherleaf Viburnum	V. wrightii
Greater Periwinkle, Vinca	Vinca major
Common Periwinkle, Vinca	Vinca minor
Grape*	Vitis sp.*
Old Fashioned Weigela	Weigela florida
Spanish Bayonet, Yucca	Yucca aloifolia
Adam's Needle, Yucca	Y. filamentosa

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

**LIMITATION OF WARRANTIES:** The exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price, or at Howard Fertilizer & Chemical Co., Inc.'s option, the replacement of the product.

### 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:** Do not reuse empty bag. Completely empty bag into application equipment. Then 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)	

ACCEPTED  
 with COMMENTS  
 in EPA Letter Dated  
 SEP 1 - 2004

Under the Federal Insecticide,  
 Fungicide, and Rodenticide Act  
 as amended, for the pesticide  
 registered under EPA Reg. No.

35512-51

Derived from ....

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

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

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#### 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.  
**DISCLAIMER OF WARRANTIES:** There are no warranties express or implied, of merchantability or of fitness for a particular purpose or otherwise, which extend beyond the statements made on this label. No agent of Howard Fertilizer & Chemical Co., Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. Howard Fertilizer & Chemical Co., Inc. disclaims any liability whatsoever for special, incidental, or consequential damages resulting from the use or handling of this product.

[ADDENDUM LABEL - RESIDENTIAL USE ONLY]

# TURF PRIDE<sup>®</sup> FERTILIZER

## With 0.25% PRODIAMINE

### PRE-EMERGENCE HERBICIDE

For pre-emergence control of weed grasses and broadleaf weeds in established residential lawns and ornamental landscapes, 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 25 POUNDS (11.4 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>

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.  
Not for use in commercial greenhouses, nurseries, on sod farms or grass grown for seed.  
For residential use only.



Approximate Dates of Crabgrass Germination	
Northern Zone	After May 19
Transitional Zone	After April 29
Upper Southern Zone	After Mar. 29
Southern States	Jan 1 to Mar. 29

This product is a turf fertilizer and a pre-emergence herbicide that provides residual control of many grass and broadleaf weeds in established residential 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 domestic animals forage cut from areas treated with this product. 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 grass 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 1/8 inch of rainfall or irrigation prior to weed seed germination and within 14 days following application. See map for approximate crabgrass seed germination dates.

### 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 frequent repeated skin contact while handling the material may cause allergic reactions in some individuals.

Wear long sleeved shirt, long pants, chemical resistant gloves, shoes plus socks, and a dust mask. 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. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

#### 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. 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: (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 seeding secondary roots are in the second inch of soil, not thatch plus soil. (3) 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 diking may result in reduced weed control. (6) Do not apply this product to 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.

ACCEPTED  
with COMMENTS  
in EPA Letter Dated  
SEP 1 - 2004

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.

35512-51

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**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/1,000 ft <sup>2</sup>
Creeping Bentgrass	6 lbs
Creeping Red Fescue	7 lbs
Buffalograss Kentucky Bluegrass Perennial Ryegrass	9 lbs
Bermudagrass (2) Bahiagrass Centipedegrass Seashore Paspalum St. Augustinegrass Tall Fescue (including turf type) Zoysia	14 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 4.5 lbs. per 1,000 ft<sup>2</sup>. 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 14 lbs. of this product to the same 1,000 ft<sup>2</sup> 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
Carpetweed	Johnsongrass	Rescuegrass (3)
Chickweed, Common	(from seed)	Shepherd's Purse (2)
Chickweed, Mouseear (from seed)	Knotweed	Signalgrass, Broadleaf
Crabgrass (Large, Smooth)	Kochia	Speedwell, Persian
Crowfootgrass	Lambsquarter, Common	Sprangletop
Cupgrass, Woolly	Lovegrass	Spurge, Prostrate
Foxtails, Annual	Panicum (Texas, Fall, Browntop)	Witchgrass
Goosegrass (1)	Pigweed	Woodsorrel, Yellow (from seed)

- (1) In many areas a single application of 6 to 14 lbs. per 1,000 ft<sup>2</sup> 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 6 to 9 lbs. per 1,000 ft<sup>2</sup> followed after 60 to 90 days by a second application at doses that would not exceed those given 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 seeding 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.

**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 product per 1,000 ft <sup>2</sup>				
Which are as follows:	6 lbs	7 lbs	9 lbs	14 lbs
25 lbs. treats sq. ft.:	4,166	3,572	2,778	1,785
<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 RBA	#XX	#XX	#XX	#XX
Lesco New	#XX	#XX	#XX	#XX

Product Rate	Months Before Overseeding		
	Northern	Transition	Southern
4.5	4	4	4
6	5	4	4
7	6	5	5
7.4	-	6	6
9	-	7	7
10.5	-	-	9
12	-	-	10
14	-	-	12

**LANDSCAPE ORNAMENTALS INCLUDING ESTABLISHED WILD FLOWER PLANTINGS**

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

**USE RATES**

Apply 6 to 14 lbs. per 1,000 ft<sup>2</sup> 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 14 lbs. per 1,000 ft<sup>2</sup>.

**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/grfts 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>
Klm*	<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 quinata</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 Frikatii</i>



For Use Around Landscape Ornamentals Including established perennials and wildflowers, as listed. (cont'd.)	
Common Name	Scientific Name
Lady Fern; Fern Lady	<i>Athrium Filix-femina</i>
Japanese Aucuba	<i>Aucuba japonica</i>
Fibrous Begonia: Hardy Grandis Barberr	<i>Begonia sp.</i>
Wintergreen	<i>Berberis gladywensis</i>
Barberry	<i>B. julianae</i>
Mentor Barberry	<i>B. mentorensis</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 Sunrise, Moonbeam	<i>Coreopsis sp.</i>
Flowering Dogwood	<i>Comus florida</i>
American Dogwood	<i>C. stolonifera</i>
Pampas Grass	<i>Cortaderia selloana</i>
Cranberry Cotoneaster	<i>Cotoneaster spiculatus</i>
Cotoneaster	<i>C. buxifolius</i>
Bearberry Cotoneaster	<i>C. dammeri</i>
Rockspray Cotoneaster	<i>C. microphyllus</i>
Hawthorne	<i>Crataegus spp.</i>
Lucifer	<i>Crocosmia sp.</i>
Italian Cypress	<i>Cupressus sempervirens</i>
White Trailing Ice Plant	<i>Delosperma eiba</i>
Cooper 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. klatschovica</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>
Gentian	<i>Gentiana dahurica</i>
Cranebill	<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>Helianthemum 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; Hellen	<i>I. crenata</i>
American Holly	<i>I. opaca</i>
Holly	<i>I. perryi</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>Jasminum uditiflorum</i>
Chinese Juniper; Nick's Compact, Parsonnii	<i>Juniperus chinensis</i>
Shore Juniper; Blue Pacific	<i>J. conferta</i>
Parsoni	<i>J. davurica</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>

For Use Around Landscape Ornamentals Including established perennials and wildflowers, as listed (cont'd.)	
Common Name	Scientific Name
Chinese Privet; Vanegata	<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, Vanegated	<i>Liriope Muscari var. vanegata</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>
Loosestrife; Modern Pink	<i>Lythrum sp.</i>
Magnolia species**	<i>Magnolia spp.**</i>
Ice Plant	<i>Malephora 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 (Redtip)	<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, Neclanne, 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>
English Hawthorne	<i>Raphiolepis indica</i>
Yedda Hawthorn	<i>Raphiolepis umbellata</i>
Coral Bell, Delaware Valley White, Flame Creeper, Formosa, Girard Crimson, George L. Tabor, Hino-crimson, PJM, 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>Saxifrage sp.</i>
Pincushion Flower	<i>Scabiosa sp.</i>
Stoncrop	<i>Sedum album</i>
Stoncrop; Uidakense	<i>Sedum cauticola</i>
Stoncrop	<i>Sedum dasyphyllum</i>
Stoncrop; Dragon's Blood	<i>Sedum spurium</i>
Spiraea; Anthony Waterer	<i>Spiraea Bumalda</i>
Australian Brushcherry	<i>Syzygium paniculatum</i>
Japanese Yew	<i>Taxus cuspidata</i>
Yew	<i>T. media</i>
Germender	<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. picalatum</i>
Canary Island Viburnum	<i>V. rigidum</i>
Arrow wood Viburnum	<i>V. suspensum</i>

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For Use Around Landscape Ornamentals Including established perennials and wildflowers, as listed (cont'd.)	
Common Name	Scientific Name
Laurustinus	V. tinus
Cranberry Bush	V. trilobatum
Leatherleaf Viburnum	V. wrightii
Greater Periwinkle, Vinca	Vinca major
Common Periwinkle, Vinca	Vinca minor
Grape*	Vitis sp.*
Old Fashioned Weigela	Weigela florida
Spanish Bayonet, Yucca	Yucca aloifolia
Adam's Needle, Yucca	Y. filamentosa

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

## STORAGE & DISPOSAL

**STORAGE:** Store in original container, in a cool dry place out of reach of children and pets.

**DISPOSAL:** If empty – Do not reuse this container. Place in trash or offer for recycling if available. If partly filled – Call you local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

## 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 ...

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### 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.

**DISCLAIMER OF WARRANTIES:** There are no warranties express or implied, of merchantability or of fitness for a particular purpose or otherwise, which extend beyond the statements made on this label. No agent of Howard Fertilizer & Chemical Co., Inc. is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. Howard Fertilizer & Chemical Co., Inc. disclaims any liability whatsoever for special, incidental, or consequential damages resulting from the use or handling of this product.

**LIMITATION OF WARRANTIES:** The exclusive remedy of the user or buyer for any and all losses, injuries or damages resulting from the use or handling of this product, whether in contract warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price, or at Howard Fertilizer & Chemical Co., Inc.'s option, the replacement of the product.