



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

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

Luz G. Chan Registration Manager Drexel Chemical Company P.O. Box 13327 Memphis, TN 38113-0327 APR 1 2010

Subject: Label Notification(s) for Pesticide Registration Notice 98-10 and 2007-4

Dear Ms. Chan:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 and 98-10 dated March 16, 2010 for:

EPA Registration 19713-579
EPA Registration 19713-615
EPA Registration 19713-614
Drexel Pendiguard Turf 0.86%
Drexel Pendiguard Turf 0.75%

The Registration Division (RD) has conducted a review of this request for applicability under PR Notice 2007-4 and 98-10 and finds that the label changes requested falls within the scope of PR Notice 2007-4 and 98-10. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Nicole Williams of my staff at 703-308-5551.

Sincerely,

Linda Arrington

Notifications & Minor Formulations Team Leader Registration Division (7505P)

Office of Pesticide Programs

Please read instructions on reverse before com United Sta Environmental Prote Washington, DO	tion Agency Amendment
Applic	tion for Pesticide - Section I
1. Company/Product Number 19713-579	2. EPA Product Manager JIM TOMPKINS 3. Proposed Classification None Restricted
4. Company/Product (Name) DREXEL PENDIGUARD TURF 0.66%	PM# 25/Herbicide Branch
5. Name and Address of Applicant (Include ZIP Code) Drexel Chemical Company P.O. Box 13327 Memphis, TN 38113-0327 Check if this is a new address	6. Expedited Reveiw. 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 NameSection - II
Amendment - Explain below. Resubmission in response to Agency letter dated	
	Section - III
1. Material This Product Will Be Packaged In: Child-Resistant Packaging Yes No If "Yes" No. pe	Water Soluble Packaging ✓ Yes ✓ No If "Yes" No. per 2. Type of Container Metal Plastic Glass Paper
be submitted Unit Packaging wgt.	
Label Container Container Container Container Light Label is Affixed to Product Light Label is Affixed to Product	Retail Container 5. Location of Lebel Directions 10, 25, 50, 2000 LBS. On the label ograph original
	Section - IV
1. Contact Point (Complete items directly below for identifi	tion of individual to be contacted, if necessary, to process this application.)
Name LUZ G CHAN	Title Telephone No. (Include Area Code) REGISTRATION MANAGER
I certify that the statements I have made on this form	cation nd all attachments thereto are true, accurate and complete. statement may be punishable by fine or imprisonment of constant of con
2. Signature Cuza. Cham 2010.03.16 13:35:18 -05'00'	3. Title REGISTRATION MANAGER

5. Date

4. Typed Name

LUZ G CHAN

March 16, 2010



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March 16, 2010

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504P)
U.S. Environmental Protection Agency
Rm S-4900, One Potomac Yard
2777 S Crystal Drive
Arlington, VA 22202

Re: Submission of Revised Label per PR Notice 98-10 and PR Notice 2007-4
DREXEL PENDIGUARD TURF 0.66% (EPA Reg. No. 19713-579)

Herewith:

- 1. Completed EPA Form 8570-1
- 2. A copy of the label (579SP-0310*) with the following changes:
 - i) Under the ingredient statement, the spelling was corrected to "Nitrogen".
 - ii) On page 2, under 'Broadleaved Weeds', the spelling was corrected to "Trifolium".
 - iii) On page 3, "Poa annua" was italicized.
 - iv) On page 4, under 'Trees' the spelling was corrected to "Populus'.

Also, under "Wildflowers", the first statement "This product herbicide....listed on the label" was restated to read "This product......listed on the label".

- v) The table for "Bedding Plants" which was inadvertently left of the label accepted by notification on July 30, 2009 was reinstated. (The EPA Stamped Accepted label dated 8/21/2008 showing "Bedding Plants" on the label is enclosed for your reference.)
- vi) Per PR Notice 2007-4, under 'Container Disposal', 'this product only' was changed to 'pesticide only' for 'Refillable Containers'
- vii). The trademark ownership statement was updated.

The changes were highlighted.

3. Certification Statements

If you have questions/clarification regarding this submission, I can be reached at (901) 774-4370 or e-mail <u>Lchan@drexchem.com</u>. Thank you

Respectfully yours;
FOR DREXEL CHEMICAL COMPANY

Luz G Chan

Registration Manager

1700 Channel Avenue • Post Office Box 13327 • Memphis, Tennessee 38113-0327

Phone: (901) 774-4370 • Fax: (901) 774-4666 • E-Mail: info@drexchem.com • www.DrexChem.com

SINCE1972



NOTIFICATION APR 1 - 2010

Pendiguard™ Turf 0.66% **Preemergent Weed Control**

0.66% Pendimethalin + XX-XX-XX Fertilizer

FOR USE ON TURFGRASSES, ORNAMENTAL PLANTINGS. AND GROUND COVERS AS LISTED.

ACTIVE INGREDIENT:

Pendimethalin: N-(1-ethylpropyl)-3,4-dimethyl-2.6-dinitrobenzenamine 0.66% OTHER INGREDIENTS: 99.34% TOTAL: 100.00%

(50 pounds of this product contains 0.33 pound of the active ingredient, Pendimethalin)

XX-XX-XX

GUARANTEED ANALYSIS:

Total Nitrogen (N) xx.xx% xx.xx% Ammoniacal Nitrogen xx.xx% Urea Nitrogen Available Phosphoric Acid (P2O5) xx.xx% Soluble Potash (K₂O) xx.xx% Sulfur (S), Free xx.xx% Derived from: (materials will vary with fertilizer blend) Chlorine (CI) Not More Than xx.xx%

KEEP OUT OF REACH OF CHILDREN CAUTION

EPA Reg. No. 19713-579 EPA Est. No. 19713-XX-XXX

Net Content:

FIRST AID

IF IN EYES:

- · Hold eye open and rinse slowly and gently with water for 15 to 20
- · Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- · Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING:

- · Take off contaminated clothing.
- · Rinse skin immediately with plenty of water for 15 to 20 minutes.
- · Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

- · Call a poison control center or doctor immediately for treatment
- · Have person sip a glass of water if able to swallow.
- · Do not induce vomiting unless told to do so by a poison control
- Do not give anything by mouth to an unconscious or convulsing person.

IF INHALED:

- · Move person to fresh air.
- · If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
- · Call a poison control center or doctor for further treatment advice.

(Continued)

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

FOR CHEMICAL SPILL, LEAK, FIRE OR EXPOSURE CALL CHEMTREC: 1-800-424-9300

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Causes moderate eye irritation. Harmful if swallowed or absorbed through the skin. Avoid contact with eyes, skin, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling.

Personal Protective Equipment (PPE): Some materials that are chemical-resistant to this product are any waterproof material (refer to Category A on an EPA chemical-resistance selection chart).

Applicators and other handlers must wear: Long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride, shoes plus

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should: 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 3) 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.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Drift or runoff from treated areas may be hazardous to aquatic organisms in adjacent aquatic sites. Do not contaminate water when disposing of equipment washwater or rinseate.

DIRECTIONS FOR USE

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

This labeling must be in possession of the applicator at the time of pesticide application.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift Ohly protected handlers may be in the area during application. Keep children and pets out of the treated area until dusts have settled Foreany requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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Manufactured Byz 6 6 6 6

Drexel Chemical Company

P.O. BOX 13327, MEMPHIS, TN 38113-0327

SINCE 1972

579SP-0310* PENDIGUARD TURF 0.66% Page 1 of 7 Do not apply this product in greenhouse hadehouses or other enclosed structures. Not for use in commence seed production. Do not apply this product through any type of irrigation system.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, greenhouses 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) and Restricted Entry Interval (REI). The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the REI of 24 hours.

PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls, chemical-resistant gloves made of any waterproof material, and shoes plus socks.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to use of this product that are not within the scope of the WPS for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Do not enter or allow others to enter the treated area until dusts have settled.

Failure to follow the directions for use and the precautions on this label may result in poor weed control, crop injury, or illegal residues.

USE INFORMATION

PENDIGUARD TURF 0.66% is a combination preemergent herbicide with fertilizer formulated to provide control of most annual grass weeds and certain broadleaf weeds found in Turfgrass grown in golf courses, lawns in residential, commercial establishments, or grounds around military or other institutions, sod farms, parks, airports, school or cemeteries, prairiegrass areas, athletic fields or recreational areas, roadsides, pipe yards, industrial, unimproved Turf areas, and other sites where Turf may be maintained. This product is labeled for use on the following Turfgrass species: Kentucky bluegrass, Perennial ryegrass, Fine fescue, Tall fescue, Bentgrass (except putting greens and tees), Poa annua (except putting greens and tees), Bermudagrass, St. Augustinegrass, Bahiagrass, Centipedegrass, Zoysiagrass, and blends of these grasses.

This product controls weeds as their seeds germinate, but will not control established weeds. Use a postemergent herbicide, such as 2,4-D or MSMA, to control established weeds. Consult all herbicide label directions for proper use and precautions.

Applied according to label directions and under normal growing conditions, this product will not cause Turf injury. Over application can result in Turf stand loss, Turf injury, or soil residues. Uneven application can decrease weed control or cause Turf injury.

Seedling diseases, cold weather, excessive moisture, high soil pH, soil salt concentration, or drought can weaken Turfgrass and increase the possibility of Turf damage from this product.

Unusually cold, excessively wet, or hot and dry conditions that delay germination or extend germination over a long period of time can reduce weed control.

This product can be used around established Ornamentals and in established Wildflower plantings. This product may be used for hardwood and conifer regeneration on conservation reserve program land.

APPLICATION

Apply this product uniformly at the specified rate using a properly calibrated spreader (see table below for approximate settings). Avoid overlaps that will increase rates above those specified. The efficacy of this product will be improved if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. This will remove the product from the Turfgrass foliage and establish a preemergent herbicide barrier in the soil. If this product is not activated by rainfall or irrigation within 30 days of application, erratic weed control may result. Avoid contact of this product with porous surfaces such as driveways, stone, or wood. Removing particles will help prevent staining. This product provides preemergence control of the weed species listed. Applications can be made around and over the top of the Ornamentals and to the sites listed on this label.

TABLE OF EQUIVAL

MAXIMUM A	E BY USE SITES		
Use Site	This Product/A (Lbs.)	This Product/ 1,000 sq. ft. (Lbs.)	Pounds a.i./A
Residential* and Sod farm turf	303	6.9	2.0
Golf course, Com- mercial and other Non-residential	455	10.4	3.0

 Residential is defined as turf in any residential situation as well as home lawns, schools, parks and playgrounds.

This Product Per Acre (Lbs.)	This Product Per 1,000 Sq. Ft. (Lbs.)
152	3.5
227	5.2
303	6.9
. 455	10.4

GRASS WEEDS		
Common Name	Scientific Name	
Barnyardgrass	Echinochloa crus-galli	
Bluegrass, Annual	Poa annua	
Crabgrass	Digitaria spp.	
Crowfootgrass	Dactyloctenium aegyptium	
Foxtail, Giant	Setaria faberi	
Foxtail, Green	Setaria viridis	
Foxtail, Yellow	Setaria glauca	
Goosegrass	Eleusine indica	
Itchgrass	Rottboellia exaltata	
Johnsongrass (from seed)	Sorghum halepense	
Junglerice	Echinochloa colona	
Lovegrass (from seed)	Eragrostis spp.	
Panicum, Browntop	Panicum fasciculatum	
Panicum, Fall	Panicum dichotomiflorum	
Panicum, Texas	Panicum texanum	
Sandbur, Field	Cenchrus incertus	
Signalgrass	Brachiaria platyphylla	
Sprangletop, Mexican	Leptochloa uninervia	
Sprangletop, Red	Leptochloa filiformis	
Witchgrass	Panicum capillare	
Woolly Cupgrass	Erochloa villosa	

VED WEEDS
Scientific Name
Soliva pterospenna
Mollugo verticillata
Stellaria media
Cerastium vulgatum
Trifolium procumbens
Gnaphalium spp.
Oenothera biennis
Amsinckia intermedia
Erodium spp.
Lamium amplexicavie
Polygonum avicularo
Kochia scoparia o o
Chenopodium âlḫųfii ့ 🎖
Amaranthus spp.
្បីribuluន្តterrestris
Portulaça oleraçea ေစီ ေ
ମିନ୍ଦିନ୍ଦିର scabfa
Sisyfriorium irio c c
ଅକୃତ୍ୟୋନ୍ସ bursa-pastoris
രാഗ്യgonum pensylvanicum
Veronica arvensis c
Euphorbia spp cccooc
Euphorbia numistrata
Oxalis stricta
Abutilon theophrasti c

TURFGRASSES

(Residential, Golf course, Commercial, Other Non-residential Turfgrass Uses) For Preemergence Weed Control

TURFGRASS SPECIES	WEEDS CONTROLLED	APPLICATION RATES*	COMMENTS
Cool Season	Crabgrass	All Turf Uses:	Apply a
Grasses Kentucky bluegrass Perennial ryegrass Fine fescue Tall fescue	Foxtail Poa annua Barnyardgrass Fall panicum Oxalis Prostrate spurge Purslane Knotweed Chickweed Evening primrose Hop clover	227 to 303 pounds per acre as the initial application prior to weed germination.	repeat application of 152 to 227 pounds per acre after 5 to 8 weeks for extended control or where heavy weed infestations are expected.
	Goosegrass	Residential** and Sod Turf Uses Only: 227 to 303 pounds per acre in the Spring prior to weed germination.	Apply a repeat application of 152 pounds per acre after 5 to 8 weeks if the lower rate was used initally or for extended Goosegrass control.
	Goosegrass	Golf course, Commercial, Non-residen- tial Turf Uses Only: 227 to 455 pounds per acre in the Spring prior to weed germination.	Apply a repeat application of 152 pounds per acre after 5 to 8 weeks if the lower rate was used initially or for extended Goosegrass control.
	Cudweed Poa annua Chickweed Lawn burweed Henbit Corn speedwell	All Turf Uses: 227 to 303 pounds per acre.	Apply in late Summer or early Fall prior to weed germination. Apply a repeat application of 227 to 303 pounds per acre after 5 to 8 weeks for extended Poa annua control.
Bentgrass or established Poa annua*** (one-half inch height or taller. Not for use on greens and tees.)	Crabgrass Foxtail Poa annua Barnyardgrass Fall panicum Oxalis Prostrate spurge Purslane Knotweed Chickweed Evening primrose Hop clover	All Turf Uses (Non-Greens and Tees): 227 pounds per acre in the Spring prior to weed germination.	Apply a repeat application of 152 to 227 pounds per acre after 5 to 8 weeks where heavy weed infestations are expected.

(Cont.)			
TURFGRASS SPECIES	WEEDS CONTROLLED	APPLICATION , RATES*	COMMENTS
Bentgrass or established Poa annua*** (one-half inch height or taller. Not for use on greens and tees.)	Goosegrass	All Turf Uses (Non-Greens and Tees): 227 pounds per acre.	Apply in the Spring prior to weed germination. Apply a repeat application of 227 pounds per acre after 5 to 8 weeks for extended control.
	Cudweed Poa annua Chickweed Lawn burweed Henbit Corn speedwell	All Turf Uses (Non-Greens and Tees): 227 to 303 pounds per acre.	Apply in late Summer or early Fall prior to weed germination.
Warm Season Grasses Bermuda- grass St. Augustine- grass Bahiagrass Centipede- grass Zoysiagrass Tall fescue Buffalograss	Crabgrass Foxtail Poa annua Barnyardgrass Fall panicum Oxalis Prostrate spurge Purslane Knotweed Evening primrose Hop clover	Residential and Sod Farm Turf Uses Only: 227 to 303 pounds per acre prior to weed germination. Golf course, Commercial and Other Non-Residen- tial Turf Uses Only: 227 to 455 pounds	Apply a repeat application of 152 to 227 pounds per acre after 5 to 8 weeks if necessary.
	Goosegrass	per acre in the Spring prior to weed germination.	An additional
		(Non-Greens and Tees): 227 pounds per acre prior to weed germination in the Spring. Apply a repeat application of 227 to 303 pounds per acre after 5 to 8 weeks.	application of 227 pounds per acre may be applied for extended Goosegrass control 8 weeks after the second application.
	Cudweed Evening primrose Henbit Poa annua Chickweed Lawn burweed Corn speedwell	0 0 0 0	Apply in late Summer or early Fall prior to weed germination. Apply a repeat application of 227 to 303 pounds per
* PO NOT			acre after 5 to 6 weeks for extended Poacannua control.

- * DO NOT exceed a maximum rate of 363 pounds per acre per application for use on Residential Turfgrass and Sode farm Turfgrass
 - DO NOT exceed a maximum rate of 455 pounds per acre per application for use on Golf course, Turfgrass, Commercial or other Non-residential Turfgrass.
- ** Residential is defined as Turf in any residential situation as well as home lawns, schools, parks and playgrounds.

USE PRECAUTIONS

- Avoid application when wind conditions....ay cause drift.
- Use on well established Turfgrass with a dense and uniform stand.
 On newly planted areas, applications should not be made until the
 Turfgrass has filled in and has been mowed at least four times. On
 Turf that has been thinned or damaged due to Winter injury, excessive moisture, etc., allow for Turf recovery prior to making an application.
- Applications made to overseeded warm-season Turfgrasses may cause thinning or injury of the overseeded species.
- Do not use on Bentgrass or Poa annua greens and tees or injury may occur.
- Delay reseeding or Winter overseeding of treated Turfgrass for at least three (3) months following the last application of this product.
 Delay sprigging Turfgrass for five (5) months after application.

INDUSTRIAL (UNIMPROVED) TURF

Industrial, or unimproved Turf areas often have a different spectrum of weeds to be controlled than those found in fine Turf as described elsewhere in this label. This product will control Annual grasses and Broadleaved weeds mentioned in that section of this label as well as the following weeds that might germinate in established grasses in rights-of-way, roadsides, construction sites, parks, substations, lots, or similar areas:

Crowfootgrass, Itchgrass, Johnsongrass (from seed), Junglerice, Lovegrass (from seed), Browntop Panicum, Texas Panicum, Field Sandbur, Signalgrass, Mexican Sprangletop, Red Sprangletop, Witchgrass, Woolly Cupgrass, Carpetweed, Fiddleneck, Filaree, Kochia, Lambsquarters, Pigweed, Puncturevine, Florida Pusley, London Rocket, Shepherdspurse, Pennsylvania Smartweed, Annual Spurge, and Velvetleaf.

Apply before weeds germinate. A postemergence herbicide such as 2,4-D, MSMA, or similar product is recommended to control established weeds.

LANDSCAPE AND GROUNDS MAINTENANCE

This product can be incorporated into landscape and ground maintenance programs to provide extended preemergence control of most annual grasses and certain broadleaved weeds. Areas to be treated include but are limited to established trees or Ornamentals in the landscape or in mulch beds; or, other commercially maintained landscape areas such as borders, around statuary or monuments in parks or in parking areas. If emerged weeds are present at time of application, either shallow cultivate to destroy existing weeds or, where practical, remove by hand, or apply a postemergence product labeled for such use prior to an application of this product. This product may be used before or after applications of herbicides registered for postemergence use (i.e., Glyphosate) for the control of established weeds. Do not apply sprays containing Glyphosate over the top of desirable plants, and follow the label restrictions. A treatment of this product may be followed by any registered herbicide to control weeds not listed on this product's label.

ORNAMENTAL BULBS

This product may be applied for control of susceptible annual weeds in Ornamental bulbs listed on the label (Crocus, Daffodil (Narcissus), Gladiolus, Tulip, etc.). Apply this product prior to, during or after bulb emergence. If weeds have already germinated use a labeled postemergence herbicide to control emerged weeds.

WILDFLOWERS

This product may be applied for control of susceptible annual weeds in plantings of wildflowers listed on the label (Black-eyed Susan, California Poppy, Coreopsis, Oxeye Daisy, etc.). This product may be applied to established perennial wildflowers before emergence of weeds or wildflowers. For wildflowers being established from seed, apply this product after wildflowers have emerged but prior to weed germination. If weeds have already germinated, use a labeled postemergence product to control emerged weeds.

Due to the diversity of species and varieties which exist in areas where wildflowers are grown, the response to this product may vary greatly. Careful testing on desirable species is recommended to determine if area-wide applications can be made.

ORNAMENTAL PLANTINGS AND GROUND COVER

Use Precautions

Apply this product to established plantings. May be applied around and over the top of established plants listed below. Care must be taken that soil or planting mixes have settled firmly following transplanting

and that there are no ks that would allow direct contact of this product with roots. Applications where soil and media surfaces are uniformly covered will result in best weed control and Ornamental tolerance. Plant only those desirable plant species listed on this label into soil treated the previous season with any Pendimethalin containing product or injury may occur.

roduct or injury may occur.			
TRE	ES		
Common Name	Scientific Name		
Alder, European Black	Alnus glutinosa		
Apple	Malus spp.		
Arborvitae, American	Thuja occidentalis		
Arbutus	Arbutus spp.		
Ash, Red Ash, White	Fraxinus pennsylvanica Fraxinus americana		
Aspen, Bigtooth	Populus grandidentata		
Aspen, Quaking	Populus tremuloides		
Basswood	Tilia spp.		
Birch, European Weeping	Betula pendula		
Birch, River	Betula nigra		
Buckeye, Red	Aesculus pavia		
Cedar, White Chamaecyparis, Boulevard	Thuja occidentails Chamaecyparis pisifera		
Cherry, Black	Prunus serotina		
Cherry, Choke	Prunus virginiana		
Cherry, Kwanzan	Prunus serrulata		
Cherry, Nanking	Prunus tomentosa		
Cottonwood	Populus deltoides		
Crabapple	Malus spp.		
Crepe Myrtle Cryptomeria, Japanese Cedar	Lagerstroemia indica Cryptomeria japonica		
Cypress, Bald	Taxodium distichum		
Cypress, Leyland	Cupressocyparis leylandii		
Dogwood, Flowering	Cornus florida		
Dogwood, Korean	Cornus kousa		
Dogwood, Silky	Cornus amomum		
Dogwood, Shrub Elm	Cornus spp.		
Fir, Balsam	Ulmus japonica Abies balsamae		
Fir, Douglas	Pseudotsuga menziesii		
Fir, Fraser	Abies fraseri		
Fir, White	Abies concolor		
Franklinia	Franklinia spp.		
Ginkgo	Ginkgo biloba		
Gum, Black Gum, Sour	Nyssa sylvatica Nyssa sylvatica		
Haw, Black	Viburnum prunifolium		
Hawthorn	Crataegus spp.		
Hemlock, Canada	Tsuga canadensis		
Hemlock, Eastern	Tsuga canadensis		
Holly, American	llex opaca		
Honeylocust	Gleditsia triacanthos		
Lilac, Common Lilac, Japanese Tree	Syringa vulgaris Syringa reticulata		
Linden	Tilia spp.		
Magnolia, Saucer	Magnolia soulangiana		
Magnolia, Southern	Magnolia grandiflora		
Magnolia, Star	Magnolia stellata Ginkgo biloba ့ ^{ေဝဝဝ} ွ		
Maidenhair Tree			
Maple, Paper-bark Maple, Norway	Acer griseum		
Maple, Japanese	Acer palmatum ိ ေ ေ		
Maple, Red	Aces subsum o		
Maple, Sugar	Acer Saccharum,		
Nannyberry, Rusty	Vjbูบูกูบูmู rufidulนูกค c o o		
Oak, Chinquapin	Quercus muehlenbergii		
Oak, Live	Quercus virginiana c		
Oak, Pin Oak, Red	Cherrine rubra		
Oak, Swamp Chestnut	Quercus michavxii		
Oak, Water	Quercus nigra		
Oak, White	Quercus alba		
Oak, Willow	Quercus phellos		
Olive	Olea europaea		
Palm, Date	Phoenix spp.		
	(Continued)		

(Continued)

TREES			
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Common Name	Scienuic Name		
Palm, Fan	Washingtonia spp.		
Palm, Pindo	Butia spp.		
Palm, Washington	Washingtonia spp.		
Peach	Prunus persica		
Pear, Bradford	Pyrus calleryana 'Bradford'		
Pecan	Carya illinoensis		
Pine, Austrian	Pinus nigra		
Pine, Italian Stone	Pinus pinea		
Pine, Loblolly	Pinus taeda		
Pine, Monterey	Pinus radiata		
Pine, Red	Pinus resinosa		
Pine, Scotch	Pinus sylvestris		
Pine, Virginia	Pinus virginiana		
Pine, White	Pinus strobus		
Plum, Purple Leaf	Prunus cerasifera		
Poplar, Black	Populus nigra		
Redcedar, Eastern	Juniperus virginiana		
Redcedar, Western	Thuja plicata		
Red Ironbark	Eucalyptus sideroxylon 'Rosea'		
Redwood, Dawn	Metasequoia glyptostroboides		
Sequoia, Giant	Sequoiadendron giganteum		
Serviceberry	Arnelanchier laevis		
Sourwood	Oxydendrum arboreum		
Spruce, Colorado Blue	Picea pungens		
Spruce, Dwarf Alberta	Picea glauca 'albertiana'		
Spruce, Norway	Picea abies		
Spruce, White	Picea glauca		
Sweetgum	Liquidambar styraciflua		
Sycamore	Plantanus occidentalis		
Trachycarpus	Trachycarpus spp.		
Tulip tree	Liriodendron tulipifera		
Walnut, Black	Juglans nigra		
Willow, Weeping	Salix babylonica		
Yellowwood	Cladrastis lutea		
SHRUBS			

	SHRUBS		
	Common Name	Scientific Name	
	Abelia, Glossy	Abelia grandiflora	
	Aucuba, Gold	Aucuba japonica	
	Azalea	Rhododendron spp.	
	Bamboo, Heavenly	Nandina domestica	
	Barberry	Berberis gladwynesis	
	Barberry, Japanese	Berberis thunbergii	
	Blue Indigo Bush	Dalea gregii	
	Bottlebrush, Lemon	Callistemon citrinus	
	Boxwood, Common	Buxus sempervirens	
	Boxwood, Japanese	Buxus microphylla	
	Brittlebush	Encelia farinosa	
	Buttonbush	Cephalanthus occidentalis	
	Camellia	Camellia japonica	
	Cape Jasmine	Gardenia jasminoides	
	Cassia, Feathery	Cassia artemisioides	
	Cordyline	Cordyline spp.	
	Correa	Correa spp.	
	Cotoneaster	Cotoneaster apiculatus	
	Cotoneaster, Bearberry	Cotoneaster dammeri	
	Cotoneaster, Rock	Cotoneaster horizontalis	
	Cypress, Italian	Cupressus sempervirens	
	Cypress, Leyland	Cupressocyparis leylandii	
	Deutzia, Slender	Deutzia gracilis	
	Dogwood, Red Twig	Cornus sericea	
	Elaeagnus	Elaeagnus ebbingei	
	Escallonia	Escallonia fradesii	
	Euonymus	Euonymus fortunei	
	Euonymus, Golden	Euonymus japonica	
	Euonymus, Winged	Euonymus alata	
	Firethorn	Pyracantha coccinea	
	Forsythia, Border	Forsythia intermedia	
	Fragrant Olive	Osmanthus fragrans	
	Fuschia, California	Zauschineria californica	
	Gardenia	Gardenia jasminoides	
	Hawthorne, Indian	Raphiolepis indica	
į	Hibiscus	Hibiscus syriacus	

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SHR	UBS
Common Name	Scientific Name
Holly, Chinese	llex cornuta
Holly, Japanese	llex crenata
Holly, Fosters	llex attenuata 'Fosteri'
Holly, Savannah	llex attenuata
Holly, Yaupon Honeysuckle, Bush	Ilex vomitoria Diervilla lonicera
Hopseed Bush	Dodonaea viscosa
Hopbush	Dodonaea viscosa
Hydrangea	Hydrangea macrophylla
Juniper	Juniperus spp.
Juniper, Chinese	Juniperus chinesis v. pfitzer
Juniper, Shore	Juniperus conferta
Juniper, Trailing Laurel, Cherry	Juniperus horizontalis Prunus laurocerasus
Laurel, Mountain	Kalmia latifolia
Laurel, Otto Luyken	Prunus laurocerasus
Laurel, Schipka	Prunus schipkanesis
Laurustinus	Viburnum tinus
Lavender, English	Lavandula angustifolia
Leucothoe	Leucothoe fontanesiana
Leucothoe, Coast Lilac, Cut-leaf	Leucothoe axillaris Syringa laciniata
Lily-of-the-Nile	Agapanthus africanus
Mahonia	Mahonia aquifolium
Mock Orange	Pittosporum tobira
Myrtle, Compact	Myrtus communis
Myrtle, Wax	Myrica cerifera
Nandina	Nandina domestica
Oleander Oregon Grape	Nerium oleander Mahonia aquifolium
Osmanthus	Osmanthus fragrans
Palm, European Fan	Chamaerops humilis
Palm, Mediterranean Fan	Chamaerops spp.
Phlox, Prickly	Leptodactylon californicum
Photinia, Fraser	Photinia x Fraseri
Pieris, Japanese	Pieris japonica
Pine, Mugo Plum, Natal	Pinus mugo Carissa grandiflora
Privet, California	Ligustrum ovalifolium
Privet, Glossy	Ligustrum lucidum
Privet, Variegated	Ligustrum sinensis
Privet, Waxleaf	Ligustrum japonicum
Pyracantha	Pyracantha coccinea
Quince, Flowering	Chaenomeles japonica
Ranger, Texas Redroot	Leucophyllum frutescens Ceanothus spp.
Rhododendron	Rhododendron spp.
Robira	Pittosporum tobira
Rose	Rosa spp.
Spice Plant	Illicium parviflorum
Spiraea	Spiraea vanhouttei
Spiraea, Anthony Waterer	Spiraea x bumalda
Spiraea, Japanese Sweet Bay	Spiraea joponica Laurus nobilis
Trumpet Bush	Tecoma stans
Verbena, Lemon	Aloysia triphylla
Viburnum	Viburnum suspensum °
Vitex	Vites spp. o o
Weigela	Weigela florida c c c c
Wild Lilac	ີ Ceanothus spp.
Wisteria	Wisteria spp. Xylosma congeິstum ີ 。
Xylosma Yellowbells	Xylosma congestum ເຈ ໂອເວິກີລິstans ິ
I CHOTEDONG	Taxus media
Yew	
Yew Yew, Japanese	Taxus cuspidata
Yew, Japanese Yew, Southern	Texus cuspidata
Yew, Japanese	чыңиз-сивріаата 👀

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GROUND COV S			
Common Name	Scienաć Name		
Ajuga	Ajuga reptans		
Baby Sun Rose	Aptenia cordifolia		
Beach Strawberry	Fragaria chiloensis		
Capeweed	Arctotheca calendula		
Cinquefoil, Spring	Potentilla vema		
Coyotebrush, Dwarf	Baccharis pitularis		
Daisy, Trailing African	Osteospermum fruticosum		
Dymondia	Dymondia margaretae		
Gazania	Gazania splendens		
Iceplant, Large Leaf	Carpobrotus edulis		
Ivy, English	Hedera helix		
Ivy, Geranium	Pelargonium peltatum		
Jasmine, Asiatic	Trachelospermum asiaticum		
Jasmine, Primrose	Jasminum mesnyi		
Jessamine, Carolina	Gelsemium sempervirens		
Manzanita, Bearberry	Arctostaphylos uva-ursi		
Miscanthus	Miscanthus spp.		
Mondograss	Ophiopogon japonica		
Morninglory	Convolvulus spp.		
Myoporum	Myoporum parviflolium		
Pachysandra	Pachysandra terminalis		
Potentilla	Potentilla fruticosa		
Periwinkle, Common	Vinca minor		
Red Apple	Aptenia cordifolia		
Rosemary .	Rosemarinus officinalis		
Rose-Of-Sharon	Hypericum calycinum		
Sand Strawberry	Fragaria chiloensis		
Sedum	Sedum spurium		
St. Johnswort, Creeping	Hypericum calycinum		
Stonecrop	Sedum spurium		
Verbena, Peruvian	Verbena peruviana		
Vervain	Verbena peruviana		
Vetch, Crown	Vicia sativa		
Vinca or Greater Periwinkle	Vinca major		
Wintercreéper	Euonymous fortunei		

	ENNIALS
Common Name	Scientific Name
Acacia	Acacia redolens
Asparagus	Asparagus spp.
Aster, New York	Aster novi-belgii
Aster, Stokes	Stokesia laevis
Astilibe (False Spirea)	Astibe spp.
Babys Breath	Gypsophila elegans
Beard-Tongue	Penstemon spp.
Beliflower	Campanula spp.
Bird of Paradise	Caesalpinia pulcherrima
Black-eyed Susan	Rudbeckia hirta
Blanket Flower	Gaillardia x grandiflora
Bleeding Heart	Dicentra spectabilis
Butterfly Weed	Asclepias tuberosa
California Poppy	Eschscholzia california
Calla Lily	Zantedeschia aethiopica
Canna, Common Garden	Canna generalis 'Lucifer'
Carex	Carex spp.
Cast Iron Plant	Aspidistra elatior
Chincherinchee	Ornithogalum thyrsoides
Clover, Crimson	Trifolium incarnatum
Columbine	Aquilegia 'McKana Giant'
Coreopsis	Coreopsis lanceolata
Crinum Lily	Crinum spp.
Crocus	Crocus spp.
Daffodil	Narcissus spp.
Daylily	Hemerocallis spp.
False dragonhead	Physostegia virginiana
Fairy Duster	Calliandra eriophylla
	(Continue

PERENNIALS		
Common Name	Scientific Name	
Fern, Asparagus	Asparagus officinalis	
Fern, Tree	Asparagus virgatus	
Fern, Boston	Nephrolepis exaltata	
Fern, Leatherleaf*	Rumohra adiantiformis	
Fortnight Lily	Moraea spp.	
Foxglove, Common	Digitalis purpurea	
Freesia	Freesia x hybrida	
Fushcia, Arizona	Zauschneria californica	
Gayfeather	Liatris spp.	
Gaillardia	Gaillardia pulchella	
Geum	Geum spp.	
Gladiolus	Gladiolus spp.	
Heather, Dwarf	Calluna vulgaris	
Hosta	Hosta spp.	
Hyssop, Sunset	Agastache rupestris	
Indian Blanket	Gaillardia pulchella	
Lantana, Weeping	Lantana montevidensis	
Leopards Bane	Doronicum cordatum	
Lily	Lilium spp.	
Liriope, Big Blue	Liriope muscari	
Liriope, Creeping	Liriope spicata	
Lirope, Variegated	Liriope muscari	
Loosestrife, Garden	Lysimachia punctata	
Moonbeam	Coreopsis verticillata	
Montbretia	Crocosmia crocosmiiflora	
Nightshade Orchid, Peacock	Solanum spp. Acidanthera bicolor	
Oxeye Daisy	Chrysanthemum leucanthemum	
Peony, Chinese	Paeonia lactiflora	
Purple Coneflower	Echinacea purpurea	
Purple Loosestrife	Lythrum virgatum	
Rosemary	Rosmarinus officinalis	
Ruscus, Israeli	Ruscus hypophyllum	
Sage, Russian	Perovskia atriplicifolia	
Sedge	Carex spp.	
Shasta Daisy	Chrysanthemum x superbum	
Sweet Flag	Acorus calamus	
Tickseed	Coreopsis lanceolata	
Texas Bluebonnet	Lupinus texenis	
Tulip	Tulipa spp.	
Twinspur	Diasciascia barbaerae	
Wonder Flower	Ornithogalum thyrsoides	
Yarrow	Achillea millefolium	
Zephyr Lily	Zephyranthes spp.	

ORNAMENTAL GRASSES		
Common Name	Scientific Name	
Beach Grass	Ammophila breviligulata	
Fescue, Blue	Festuca ovina	
Fescue, Sheep	Festuca ovina	
Fountain Grass	Pennisetum setaceum	
Pampas Grass	Cortaderia selloana	
Reed Canary Grass	Phalaris arundinacea	
Reed, Giant	Arundo spp. ccoo	
Ribbon Grass	Phalaris arundinaceae	
Tufted Hair Grass	Deschampsia caespitosa	

* Applications of this product to immature ferns (during periods of new growth of fronds) may result in some injury.

BEDDING PLANTS*		
Common Name	Scientific Name	
Ageratum	'Ageratum houstonianum	
Alyssum	Alyssum saxatile: o	
Anemone, Poppy-flowered	ເຈັກວຸmone coronaria ເວັ	
Artemesia	Arfornoŝia spp. o	
Balloonflower	Platycodon grandiflorum	
Begonia	Begonia spp. CCCCGG	
Cabbage, Ornamental	Brassica olereacea	
Caladium	Caladium spp. c 6 6 6 6	
China Aster	Callistephus chifiérfsis	
Crocosmia, Montebretia	Crocosmia x crocosmiiflora	
	(Continued)	

BEDDING PLA 3*		
Common Name	Scientific Name	
Dahlia Dianthus Dusty Miller Gazania, Treasure Flower Gazania, Trailing Geranium Gloxinia Impatiens Kale, Ornamental Marigold, African Moss Rose Mum, Garden Pansy, Garden Periwinkle, Rose Petunia Plumosa Cockscomb Portulaca Salvia Snapdragon Statice Sweet William Vinca or Periwinkle Zinnia	Dahlia spp. Dianthus barbatus Senecio cineraria Gazania rigens Gazania rigens leucolaena Geranium sp. Gloxinia simningia Impatiens sp. Brassica napus Tagetes erecta Portulaca grandiflora Chrysanthemum spp. Viola x Wittrockiana Catharanthus roseus or Vinca rosea Petunia spp. Celosia cristata Portulaca grandiflora Salvia splendens Antirrhinum majus Limonium spp. Dianthus barbatus Catharanthus roseus Zinnia sp.	

 After planting bedding plants and before applying this product, area to be treated should be watered sufficiently to pack soil around roots.

This product may be used on plant species not listed on this label. The suitability for such uses should be determined by treating a small number of such plants at the specified rate. Treated plants should be evaluated for possible injury 1 to 2 months following treatment. THE USER ASSUMES RESPONSIBILITY FOR ANY CROP DAMAGE OR OTHER LIABILITY. Do not treat plants grown for food or feed. Do not use treated plants for food or feed.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage and disposal. Open dumping is prohibited. Do not reuse empty containers.

PESTICIDE STORAGE: Store in a clean, dry place. Reseal opened bag by folding top down and securing. Do not store above 120°F. PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or 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 (flexible-bag-all weights): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Nonrefillable Container (rigid-fifty lbs. or less): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container one-fourth full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Nonrefillable Container (rigid-greater than fifty lbs.): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Clean container promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container one-fourth full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Re-(Continued)

STORAGE AND DISPOSAL (Cont.)

peat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Refillable Container: Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

For Residential/Household Use:

PESTICIDE DISPOSAL: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

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

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

WARRANTY—CONDITIONS OF SALE

OUR DIRECTIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. To the extent consistent with applicable law, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

To the extent consistent with applicable law, in no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.

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