

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Washington, D C 20460

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

AUG - 9 2012

Luz G Chan Drexel Chemical Company 1700 Channel Avenue P O Box 13327 Memphis, TN 38113-0327

Subject

Notification per PR Notice 98-10

Product Name Drexel PIN-DEE 3 3 T&O

EPA Reg No 19713-590

Application Dated July 26 2012

Dear Ms Chan

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the subject product. The Registration Division (RD) has conducted a review of this request finds that the action falls within the scope of PRN 98-10. The label submitted with the application has been date-stamped "Notification" and will be placed in our records

If you have any questions, please contact Elizabeth Fertich at 703-347-8560 or at fertich elizabeth@epa gov

Sincerely,

Muidy On Ich, Acting for

Kable Bo Davis
Product Manager 25
Herbicide Branch
Registration Division (7505P)

Please read instructions on n	everse before comp	A form		Form Approve	JMB No 207	0-0060. Approval expires 2 28 95
SEPA	Environmenta	Inited States I Protection Ington DC 2046		✓	Registration Amendme Other	\$
		Application	for Pesticion	de - Section	I	
1 Company/Product Number 19713-590			1	Product Manager Bo Davis		3 Proposed Classification None Restricted
4 Company/Product (Name) DREXEL PIN DEE 3.3	T&O		РМ# 25/Не	rbicide Branch		, nosanotos
Drexel Chemical Company P O Box 13327 Memphis TN 38113 0327 Check if this		de)	(b)(i) m to EPA R Produ	leg No ct Name	nilar or identical	e with FIFRA Section 3(c)(3) I in composition and labeling
			Section - I	<u> </u>		
Amendment Explain Resubmission in responsi	onse to Agency letter	dated		Final printed labe Agency letter day Me Too Applic Other Explain b	ted eation	AUG 09 2012
labeling or the Confidential St	Details are in the cove with the provisions of Fatement of Formula of hat if this notification is	er letter accompa PR Notice 98 10 a this product Tund not consistent wi	anying this submiss and EPA Regulatio derstand that it is a ith the terms of PR er Sections 12 and	ns at 40 CFR 152 4 I violation of 18 U S Notice 98 10 and 4 14 of FIFRA	S C Sec 1001 to	changes have been made to the willfully make any false statement his product may be in violation of
			Section - II	<u> </u>		
1 Material This Product Will Child Resistant Packaging Yes No	Unit Packaging Yes √ No		Water Soluble Pa Yes ✓ No	ackaging	✓ P G	Aetal dastic ilass
* Certification must be submitted	If "Yes Unit Packaging wgt	No per container	If Yes" Package wgt	No per container	I ——	aper hther (Specify)
Location of Net Contents I Label Co	nformation ontainer	4 Size(s) Retail less than	l Container 5 gals 5 gals and gri	r	On the label	
6 Manner in Which Label is a	Affixed to Product	Lithogra Paper gl Stencile	ph ued d	Other		
			Section - IV	<u>/</u>		(
1 Contact Point (Complete i	tems directly below f	or identification	of individual to be	contacted if nec	essary to proce	ss this application
Name Luz G Chan		1	itle Registration Man	ager	1.7	lephéne No. (Include Area Code) 01) 774 4370 ်
i certify that the staten I acknowledge that any both under applicable i	y knowlinglly false or	Certification this form and all misleading state	ll attachments the	reto are true acc Ishable by fine or	urate and compli imprisonment (i	6 Da r Amplication Remarked (Stamped)
2 Signature	Cuyla Chan		Title Registration Manag	jer		
4 Typed Name Luz G Chan		5	Date July	[,] 26, 2012		



July 26, 2012

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 Corrected Label by Notification

DREXEL PIN-DEE 3 3 T&O (EPA Reg No 19713-590)

Sir/Madam

Further to our label notification submission on February 16 2012 accepted by EPA on March 1, 2012, we would like to submit two copies of the label (marked and unmarked) with the correction under First Aid If Swallowed "Have person sip a glass of water if able to swallow" is corrected to read "Do not give any liquid to the person" As stated under the Ingredient block, this product contains aromatic naphtha We have overlooked the wrong First Aid template used when the label was revised on 2/16/2012 We apologize

Along with this submission is EPA Form 8570 1 and the required certification statement per PR Notice $98_{\tilde{r}}10$

Thank you for your patience

Respectfully yours,

For Drexel Chemical Company

Luz & Chan

Registration Manager

NOTIFICATION

AUG 09 2012



GROUP 3 HERBICIDE

PIN-DEE 3.3 T & O

Herbicide

For use in Turfgrasses Ornamentals Landscape or Grounds Maintenance Non-bearing Fruit and Nut Crops and Vineyards and Noncropland

ACTIVE INGREDIENT

Pendimethalin

OTHER INGREDIENTS*

TOTAL

This product contains 3 3 pounds of pendimethalin per gallon Contains aromatic naphtha

37 4%

62 6% 100 0%

KEEP OUT OF REACH OF CHILDREN CAUTION

See FIRST AID Below

EPA Reg No 19713-590 EPA Est No 19713-XX XXX

Net Content

FIRST AID

IF SWALLOWED

Call a poison control center or doctor immediately for treatment advice

Do not give any liquid to the person

Do not induce vomiting unless told to do so by a poison control center or doctor

Do not give anything by mouth to an unconscious or convulsing person

IF IN EYES

Hold eye open and rinse slowly and gently with water for 15 to 20 minutes

Remove contact lenses if present after the first 5 minutes then continue rinsing eye

Call a poison control center or doctor for treatment advice

IF ON SKIN OR CLOTHING

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 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

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 ried call emergencies or pesticide incidents) call the National Pesticide Information Center at 1-800-858-7378

Note To Physician Contains aromatic naphtha - vomiting may cause aspiration pneumonia ¿Beçause of increased risk of chemical pneumonia or pulmonary edema caused by aspiration of the hydrocarbon solvent vomiting should be induced only under professional supervision

530SP 0712

PRECAUTIONARY STATEMENTS

Hazards To Humans And Domestic Animals

CAUTION Harmful if swallowed or absorbed through the skin Causes moderate eye irritation. Avoid contact with skin eyes or clothing

PER'SONAL PROTECTIVE EQUIPMENT (PPE) Some materials that are chemical-resistant to this product are listed below. If you want more options follow the instructions for category G on an EPA chemical-resistance category selection chart.

NON-WPS USES

Applicators and other handlers (except Mixers/Loaders) who handle this pesticide for any use not covered by the Worker Protection Standard (WPS), 40 CFR Part 170 C in general, only agricultural plant uses are covered by the WPS - must wear Long-sleeved shirt and long pants chemical resistant gloves such as nitrile rubber ≥ 8 mils shoes plus socks

Mixers and Loaders must wear Long-sleeved shirt and long pants or coveralls chemical-resistant gloves such as barrier laminate butyl rubber ≥ 14 mils neoprene rubber ≥ 14 mils or viton ≥ 14 mils shoes plus socks

WPS USES

Applicators and other handlers who handle this pesticide for any use covered by the WPS, 40 CFR part 170 - in general, agricultural-plant uses are covered - must wear Long-sleeved shirt and long pants chemical-resistant gloves such as barrier laminate butyl rubber \geq 14 mils neoprene rubber \geq 14 mils shoes plus socks

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 rinsate.

INFORMATION AND USE PRECAUTIONS

Apply PIN-DEE 3 3 T & O only as specified on this label

This product is formulated as an emulsifiable concentrate containing 3.3 pounds of active Pendimethalin per gallon. This product is a selective soil applied herbicide for preemergence control of most annual grasses and certain broadleaf weeds as they germinate in any Turfgrass sites (lawns sod turf areas) such as grounds or lawns around residential and commercial establishments airports athletic fields cemeteries golf courses houses of worship military and other institutions multifamily dwellings parks picnic grounds prairiegrass areas roadsides schools and sod farms. This product can also be used in and around field finer and container grown ornamental nurseries established landscape ornamentals and ornamental gardens listed groundcovers nonbearing fruit and nut trees conifers and hardwood seedling nurseries and for tree plantation site preparation and maintenance. Also this product can be applied for general grounds maintenance around areas such as alleyways bike and jogging paths buildings driveways and roadsides markers and fence lines mulch beds parking lots stone gardens and gravel yards vacant lots and other similar areas. It may be used under asphalt or concrete treatments as part of a site preparation program. This product is also used for preemergence control of most annual grasses and certain broadleaf weeds as they germinate in any noncropland area such as bridge abutments and approaches delineators fence rows highway quardrails highway and pipeline rights-of-way paved or gravel surfaces petroleum tank farms pumping installations railroad sign posts storage areas utility utility substations and windbreaks and shelterbelts and other similar areas where weed control is desired

This product will not control established weeds. Established weeds should be controlled before applying this product or by using this product in conjunction with an appropriate postemergence herbicide. 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.

One-half inch of rainfall or its equivalent in sprinkler irrigation following application of this product or tank mix combinations of this product improves weed control. Erratic weed control may result in the absence of rainfall or irrigation within 30 days of application of this product.

Follow label directions of this product or tank mix combinations of this product carefully to avoid crop injury Over-application can result in crop stand loss crop injury or excessive soil residues. Uneven application improper soil incorporation or soil incorporation deeper than what is directed can decrease weed control and/or cause crop injury. Seedling diseases cold weather excessive moisture shallow or deep planting low or high soil pH high soil salt concentration or drought can weaken seedlings and plants and increase the possibility of crop damage and/or reduce crop yields from this product.

This product may cause temporary discoloration of sprayed surfaces. Rinse immediately to avoid staining Spray colorants or dyes can be added to alter the color of the spray solution to match the treated surfaces. Uses with Other Products (Tank Mixes). When tank mixing this product with other herbicides all applicable directions restrictions and precautions for the additional herbicides must be followed. Use the most restrictive limitations stated on the product labels. Before initiating full tank mix application, the physical compatibility of the proposed mixture should be evaluated on a small scale of recommended spray mixture concentrations. Also, such mixtures should be evaluated for vegetation control before expanding commercial use.

RESISTANCE MANAGEMENT

GROUP 3 HERBICIDE

This product is a Group 3 herbicide. Any weed population may contain or develop plants naturally resistant to this product and other Group 3 herbicides. Weed species with acquired resistance to Group 3 may eventually dominate the weed population if Group 3 herbicides are used repeatedly in the same field or in successive years as primary method of control for targeted species. This may result in partial or total loss of control of those species by this product or other Group 3 herbicides.

To delay herbicide resistance consider

- Avoiding the consecutive use of this product or other target site of action Group 3 herbicides that have a similar target site of action on the same weed species
- Using tank mixtures or premixes with herbicides from different target site of action Groups as long as
 the involved products are all registered for the same use have different sites of action and are both
 effective at the tank mix or prepack rate on the weed(s) of concern
- Basing herbicide use on a comprehensive IPM program
- Monitoring treated weed populations for loss of field efficacy
- Contacting your local extension specialist certified crop advisors and/or manufacturer for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons either directly or through drift

Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe consult the agency responsible for pesticide regulation.

DO NOT apply this product through any type of irrigation system

DO NOT apply this product in greenhouses shadehouses or other enclosed structures

Drexel Chemical Company does not recommend or authorize the use of this product in manufacturing processing or preparing custom blends with other products for application to Turf or Ornamentals

Observe all use precautions and limitations in this label and the labels of products used in combinations with this product. The use of this product not consistent with this label can result in injury to crops, or may result in poor weed control.

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 12 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 such as polyethylene or polyvinyl chloride and shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses 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.

Keep children and pets out of the treated area until sprays have dried

MIXING INSTRUCTIONS

Ground Driven Sprayer

- 1 Fill tank one-half to three-quarters full with clean water
- 2 Add this product to the partially filled tank while agitating and then fill the remainder of the tank with water
- 3 Maintain continuous agitation while adding this product and until spraying is completed. If the spray mixture is allowed to settle for any period of time, thorough agitation is essential before spraying is resumed. Continue agitation while spraying.
- 4 If this product is to be used in tank mixtures with other registered herbicides, then follow directions on the labels of those products which recommend tank mixing

Backpack Sprayer

- 1 Begin with a clean spray tank
- 2 Fill the spray tank one-half full with clean water and add the required amount of this product to the sprayer
- 3 Cap sprayer and agitate to ensure mixing
- 4 Uncap sprayer and finish filling tank to desired level
- 5 Cap sprayer and agitate once again

During application it is desirable to agitate the mixture on occasion to ensure mixing. If the spray mixture is allowed to settle for any period of time, thorough agitation is essential before spraying is resumed.

Liquid Fertilizers Small quantities should always be tested using a simple jar test. Prior to mixing add the required amount of this product to half filled spray tank while agitating then add the fertilizer product Complete filling spray tank to desired level.

Dry Bulk Fertilizers This product may be impregnated on dry bulk fertilizers. This product/Dry Bulk Fertilizer mixtures will provide weed control equal to that provided by the same rates of this product applied in water when applied as directed.

SPRAYING INSTRUCTIONS

Apply with properly calibrated ground equipment in at least 40 gallons of water per acre to provide uniform spray distribution. Low pressure (i.e. 20 to 40 psi) sprayers are recommended. Maintain continuous agreation during spraying with good mechanical or bypass agitation. Check sprayer routinely, for proper calibration. Avoid overlaps that will increase rates above those recommended. Avoid application wines winds may cause drift. Avoid unintentional contact of spray solution with driveways stone wood or other porous surfaces. Rinse immediately to avoid staining.

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TURFGRASSES

		RATES OF TI	HIS PRODUCT
TYPES OF	WEEDS CONTROLLED	Pints/Acre	Ounces/1000
TURFGRASSES			sq ft
Cool Season Grasses	Barnyardgrass Crabgrass Evening	3 6 to 4 8	1 3 to 1 8
Fescue (fine)	primrose Fall panicum Foxtail Hop		
Fescue (tall)	clover Knotweed Oxalis Poa annua		
Kentucky bluegrass	Prostrate spurge Purslane		
Perennial ryegrass	USE INSTRUCTIONS Use as initial appl	ication prior to we	ed germination in
	Spring For extended weed control or when heavy repeat application using 2 5 to 3 6 g sq ft) after 5 to 8 weeks		
) 	For Residential Turf* Uses Only Goosegrass	3 6 to 4 8	1 3 to 1 8
	USE INSTRUCTIONS Use as initial appl	ication prior to we	ed germination in
ı	Spring If the lower rate was used initial		
	application at 3 6 pts /acre (1 3 ozs /1000 s		
	4 8 pts /acre per application for use on resi		
	*Note Residential turf is defined as turf in		tuation as well as
	schools parks and playgrounds	•	
	For Commercial or Other Non-	3 6 to 7 2	1 3 to 2 6
	Residential Turf		
	Goosegrass		
,	USE INSTRUCTIONS Use as initial appl		
	Spring If the lower rate was used initial		
	application at 3 6 pts /acre (1 3 ozs /1000 s		
	7 2 pts /acre per application for use on commercial or other non residential		
	Turfgrass		
	Chickweed Corn speedwell Cudweed	3 6 to 4 8	1 3 to 1 8
	Henbit Lawn burweed Poa annua		
	USE INSTRUCTIONS Apply in late Summer or early Fall prior to weed		
Warm Season Grasses	germination For Residential Turf* Uses Only	3 6 to 4 8	1 3 to 1 8
l I	Barnyardgrass Crabgrass Evening	301040	131018
Bahıagrass Bermudagrass	primrose Fall panicum Foxtail Hop		
Buffalograss	clover Knotweed Oxalis Poa annua		
Centipedegrass	Prostrate spurge Purslane		
Fescue (tall)	USE INSTRUCTIONS Use as initial applic	eation prior to week	L gormination in
St Augustinegrass	Spring Repeat application at 2 5 to 3 6 pin		
Zoysiagrass	sq ft) after 5 to 8 weeks if necessary Do		
20,0,09,000	pts /acre per application for use on residen		man or 4 o
1	*Note Residential turf is defined as turf in		ation as well as
	schools parks and playgrounds		6166
'	Goosegrass	36	- C 1 3
	USE INSTRUCTIONS Apply prior to we		
	second application 6 to 8 weeks later For extended control an additional		
	application of 3 6 pts /acre (1 3 ozs /1000 sq. ft.) may be made 8 weeks after		
	the second application	درددور	c c
	Chickweed Corn speedwell Cudweed	2 6 to 4 8	1 3 to 1 8
!	Henbit Lawn burweed Poa annua	2010700	
	USE INSTRUCTIONS Apply in late Su	mmer or early F	
	germination	minute of carry f	C WEEL
<u> </u>	1 90mmiadon		

Efficacy of this product will be improved if application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. Erratic weed control may result if this product is not activated by rainfall or irrigation within 30 days.

To prevent establishment of weeds along the edges of lawns it may be necessary to overlap the spray 3 to 6 inches onto sidewalks or driveways etc. Rinse pavement immediately to avoid temporary discoloration

THIS PRODUCT IN TANK MIXTURE

To control emerged weeds in Turfgrasses this product can be mixed with postemergence herbicides. To control emerged annual grass, this product can be mixed with Acclaim® Extra or MSMA whereas broadleaved weeds can be controlled using Trimec®. Three-Way ** 2.4-D and other similar products. Before tank mixing a simple jar test is recommended to insure compatibility of herbicides. Always read the companion product label. Follow all use precautions and restrictions that apply to each product used. Always follow the most restrictive label.

USE PRECAUTIONS FOR TURFGRASS

- 1 Use on well established Turfgrass with a dense and uniform stand
- 2 On newly planted areas application should not be made until the Turfgrass has filled in and has been mowed at least four times
- 3 On Turf that has been thinned or damaged due to Winter injury excessive moisture etc allow Turf to recover prior to application
- 4 Applications made to overseeded warm-season Turfgrasses may cause thinning or injury of the overseeded species
- 5 Do not use on greens or injury may occur
- 6 Delay reseeding or Winter overseeding of treated Turfgrass for at least 3 months following the last application of this product
- 7 Delay sprigging Turfgrass for 5 months after application of this product

INDUSTRIAL (UNIMPROVED) TURF

(Rights-of-Way, Roadsides, Construction Sites, Parks, Substations, Lots, or Similar Areas)

Industrial or unimproved turf areas often have a different spectrum of weeds to be controlled than those found in fine Turf This product will control annual grasses and broadleaf weeds mentioned in *TURFGRASSES* section of this label as well as the following weeds that might germinate in established grasses

Annual spurge	London rocket	
Browntop panicum	Lovegrass	
Carpetweed	Mexican sprangletop	
Crowfootgrass	Pennsylvania smartweed	
Fiddleneck	Pigweed	
Field sandbur	Puncturevine	
Filaree	Red sprangletop	
Florida pusley	Shepherdspurse	
Itchgrass	Signalgrass	
Johnsongrass (from seed)	Texas panicum	((
Junglerice	Velvetleaf	(, , ,
Kochia	Witchgrass	در ر
Lambsquarters	Woolly cupgrass	· i c

Apply before weeds germinate. To control established weeds 2 4-D MSMA or similar postemergence herbicides may be tankmixed with this product. Apply according to label instructions for the respective products and follow the most restrictive label.

ORNAMENTALS

This product can be applied for preemergence weed control around and over the top of the established plants listed below. However, not all varieties or strains of the plants listed have been tested. Unintentional consequences such as crop injury may result because of certain environmental or growing conditions manner of use or application. Therefore, before treating a large number of plants spray a few plants and observe for plant damage prior to full scale application.

GROUNDCOVERS		
Common Name Scientific Name		
Ajuga	Ajuga reptans	
Capeweed	Arctotheca calendula	
Cinquefoil Spring	Potentilla vema	
Daisy Trailing African	Osteospermum fruticosum	
Gazania	Gazania splendens	
Iceplant Large Leaf	Carpobrotus edulis	
lvy English	Hedera helix	
Ivy Geranium	Pelargonium peltatum	
Jasmine Asiatic	Trachelospermum asiaticum	
Jasmine Primrose	Jasmınum mesnyn	
Mondograss	Ophiopogon japonica	
Myoporum	Myoporum parviflolium	
Pachysandra	Pachysandra terminalis	
Potentilla	Potentilla fruticosa	
Rose of Sharon	Hypencum calycinum	
Wintercreeper	Euonymous fortunei	

ORNAMENTAL GRASSES			
Common Name Scientific Name			
Beach grass	Ammophila breviligulata		
Fescue blue	Festuca ovina		
Fescue sheep	Festuca ovina		
Fountain grass	Pennisetum setaceum		
Pampas grass	Cortadena selloana		
Reed canary grass	Phalans arundinacea		
Reed grant	Arundo spp		
Ribbon grass	Phalans arundinacea		
Tufted hair grass	Deschampsia caespitosa		

ORNAMENTAL SHRUBS			
Common Name Scientific Name			
Abelia glossy Aucuba gold Azalea Bamboo heavenly Barberry Barberry Japanese Blue indigo bush Bottlebrush lemon Boxwood common Boxwood Japanese Camellia Cape jasmin Cordyline Correa Cotoneaster Cotoneaster bearberry Cotoneaster rock	Abelia grandiflora Aucuba japonica Rhododendron spp Nandina domestica Berbens gladwynensis Berbens thunbergii Dalea gregii Callistemon citnnus Buxus sempervirens Buxus microphylla Camellia japonica Gardenia jasminoides Cordyline spp Correa spp Cotoneaster apiculatus Cotoneaster honzontalis	cocci	(((((((((((((((((((
Cypress Italian	Cupressus sempervirens		c (continued



(continuation) Cypress leyland Cupressocypans levlandı Deutzia slender Deutzia gracilis Dogwood red twig Comus sencea 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 Zauschinena californica Gardenia Gardenia jasminoides Hawthorne Indian Raphiolepis indica Hibiscus Hibiscus synacus Holly Chinese llex comuta Holly Japanese llex crenata Holly Fosters Ilex attenuata Fosten Holly savannah llex attenuata Holly yaupon llex vomitoria Honeysuckle bush Diervilla Ionicera Juniper Juniperus spp Juniper Chinese Juniperus chinensis v pfitzer Juniper shore Juniperus conferta Juniper trailing Juniperus honzontalis Laurel cherry Prunus laurocerasus Laurel Mountain Kalmıa latıfolia Laurel otto luyken Prunus laurocerasus Laurel schipka Prunus schipkanesis Laurustinus Viburnum tinus Lavender English Lavandula angustifolia Leucothoe Leucothoe fontanesiana Leucothoe coast Leucothoe axillans Lilac cut leaf Synnga lacınıata Lily of the Nile Agapanthus africanus Mahonia Mahona aquifolium Mock orange Pittosporum tobira Myrtle compact Myrtus communis Myrtle wax Myrica cerifera Nandina Nandına domestica Oleander Nenum oleander Oregon grape Mahonia aquifolium Osmanthus Osmanthus fragrans Palm European fan Chamaerops humilis Palm Mediterranean fan Chamaerops spp Phlox prickly Leptodactylon californicum Photinia fraser Photinia X Frasen Pieris Japanese Piens japonica Pine mugo Pinus muao Plum natal Canssa grandiflora Privet California Liqustrum ovalifolium Privet glossy Liqustrum lucidum Privet variegated Ligustrum sinensis Privet waxleaf Ligustrum japonicum Pyracantha Pyracantha coccinea Quince flowering Chaenomeles japonica Ranger Texas Leucophyllum frutescens Redroot Ceanothus spp Rhododendron Rhododendron spp (continued)

(continuation)	
Robira	Pittosporum tobin
Spice plant	Illicium parviflorum
Spiraea	Spiraea vanhouttei
Spiraea anthony waterer	Spiraea X bumalda
Spiraea Japanese	Spirea japonica
Sweet bay	Laurus nobilis
Trumpet bush	Tecoma stans
Verbena lemon	Aloysia triphylla
Viburnum	Viburnum suspensum
Vitex	Vitex spp
Weigela	Weigela florida
Wild lilac	Ceanothus spp
Xylosma	Xylosma congestum
Yellowbells	Tecoma stans
Yew*	Taxus media
Yew Japanese*	Taxus cuspidata
Yew Southern	Podocarpus macrophyllus
Yucca Adam's	Yucca filamentosa
Yucca weeping	Yucca pendula
* Applications should not be made during	Spring growth or injury to terminals may occur

ORNAMENTAL TREES		
Common Name	Scientific Name	
Alder European black	Alnus glutinosa	
Apple	Malus spp	
Arborvitae American	Thuja occidentalis	
Arbutus	Arbutus spp	
Ash red	Fraxınus pennsylvanıca	
Ash white	Fraxınus americana	
Aspen bigtooth	Populus grandidentata	
Aspen quaking	Populus tremuloides	
Basswood	Tilia spp	
Birch European weeping	Betula pendula	
Birch river	Betula nıgra	
Buckeye red	Aesculus pavia	
Cedar white	Thuja occidentalis	
Chamaecyparis boulevard	Chamaecypans 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	Lagerstroemia indica	
Cryptomeria Japanese cedar	Стурtотепа јаропіса	
Cypress bald	Taxodium distichum	
Cypress leyland	Cupressocypans leylandıı	
Dogwood flowering	Cornus nonga	
Dogwood Korean	Comus kousa (C)	
Dogwood silky	Comus amomum	
Dogwood shrub	Comus spp	
Elm	Ulmus japonica	
Fir balsam	Abies balsamae	
Fir douglas	Pseudotsuga menziesii	
Fir fraser	Abies fraseri	
Fir white	Abies concolor	
Franklinia	Franklinia spp	
Gınkgo	Ginkgo biloba	
	(Continued)	

(continuation) Nyssa sylvatica Gum black Gum sour Nyssa sylvatica Haw black Vibumum prunifolium Hawthorn Crataegus spp Hemlock Canada Tsuga canadensis Hemlock Eastern Tsuga canadensis Holly American llex opaca Gleditsia tnacanthos Honeylocust Lilac common Synnga vulgans Lilac Japanese tree Synnga reticulata Linden Tılıa spp Magnolia soulangiana Magnolia saucer Magnolia Southern Magnolia grandiflora Magnolia star Magnolia stellata Maidenhair tree Gınkgo biloba Acer plantanoides Maple Norway Maple Japanese Acer palmatum Maple red Acer rubrum Maple sugar Acer saccharum Nannyberry rusty Vıburnum rufidulum Oak chinquapin Quercus muehlenbergii Oak live Quercus virginiana Oak pin Quercus palustris Oak red Quercus rubra Oak swamp chestnut Quercus mıchauxıı Oak water Quercus nigra Oak white Quercus alba Oak willow Quercus phellos Olive Olea europaea Palm date Phoenix spp Washingtonia spp Palm fan Palm pindo Butia spp Palm Washington Washingtonia spp Prunus persica Peach Pear bradford Pyrus calleryana bradford Carya Illinoensis Pecan Pinus nigra Pine Austrian Pine Italian stone Pinus pinea Pine loblolly Pinus taeda Pine monterey Pınus radıata Pine red Pinus resinosa Pine scotch Pinus sylvestns Pine slash Pınus ellıottıı Pine Virginia Pinus virginiana Pine white Pınus strobus Prunus cerasifera Plum purple leaf Poplar black Populus nigra Redcedar Eastern Juniperus virginiana Redcedar Western Thuja plicata Eucalyptus sideroxylon rosea Red Ironbark Metasequoia glytostroboides Redwood dawn Sequoiadendron giganteum Sequoia giant Serviceberry Amelanchier laevis Oxydendrum arboreum Sourwood Spruce Colorado blue Picea pungens Picea glauca albertiana Spruce dwarf Alberta Picea abies Spruce Norway (Lontinued)

(continuation)		
Spruce white	Picea glauca	
Sweetgum	Liquidambar styraciflua	
Sycamore	Platanus occidentalis	
Trachycarpus	Trachycarpus spp	
Tulip tree	Linodendron tulipifera	
Walnut black	Juglans nıgra	
Willow weeping	Salix babylonica	
Yellowwood	Cladrastis lutea	i

PERENNIALS		
Common Name	Scientific Name	
Bleeding heart	Dicentra spectabilis	
Calla lily	Zantedeschia aethiopica	
Canna common garden	Canna generalis Lucifer	
Chincherinchee	Ornithogalum thyrsoides	
Crinum Lily	Cnnum spp	
Fern asparagus	Asparagus officinalis	
Fern leatherleaf	Rumohra adiantiformis	
Freesia	Freesia x hybrida	
Heather dwarf	Calluna vulgans	
Hosta	Hosta spp	
Lily	Lillium spp	
Liriope creeping	Linope spicata	
Liriope variegated	Linope muscan	
Montbretia	Crocosmia crocosmiiflora	
Orchid peacock	Acıdanthera bıcolor	
Peony Chinese	Paeonia lactiflora	
Wisteria	Wistena spp	
Zephyr IIIy	Zephyranthes spp	

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 labeled rate. Treated plants should be evaluated 1 to 2 months following treatment for possible injury. 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

WEEDS CONTROLLED

This product is used for preemergence control of the weeds listed below

This product will not control established weeds

If weeds should develop prior to activation of herbicide shallow cultivate to destroy existing weeds or where practical remove by hand. When cultivating for any reason, it should be shallow. This product may be used in conjunction with herbicides registered for postemergence use (i.e. glyphosate or Finale) for the control of established weeds. Do not apply sprays containing glyphosate or Finale over the top of desirable plants. Application of this product may be followed by any registered herbicide to control weeds not listed on this label.

WEEDS CONTROLLED		
Common Name	Scientific Name	τ,
Barnyardgrass	Echinochloa crus galli	1
Bluegrass annual	Poa annua	, (
Burweed lawn	Soliva pterosperma	((((
Carpetweed	Mollugo verticillata	. ((
Chickweed common	Stellana media	((((
Chickweed mouseear	Cerastium vulgatum	
Clover hop	Tnfolium procumbens	(
Crabgrass	Digitana spp	((())
		(^ontinued)

(continuation)	
Crowfootgrass	Dactyloctenium aegyptium
Cudweed	Gnaphalium spp
Eveningprimrose	Oenothera biennis
Fiddleneck	Amsınckıa ıntermedia
Filaree	Erodium spp
Foxtail giant	Setana faben
Foxtail green	Setana vindis
Foxtail yellow	Setana glauca
Goosegrass	Eleusine indica
Henbit	Lamium amplexicaule
Itchgrass	Rottboellia exaltata
Johnsongrass (from seed)	Sorghum halepense
Junglerice	Echinochloa colona
Knotweed prostrate	Polygonum aviculare
Kochia	Kochia scopana
Lambsquarters	Chenopodium album
Lovegrass (from seed)	Eragrostis spp
Panicum browntop	Panicum fasciculatum
Panicum Fall	Panicum dichotomiflorum
Panicum Texas	Panicum texanum
Pigweed	Amaranthus spp
Puncturevine	Tnbulus terrestris
Purslane	Portulaca oleracea
Pusley Florida	Rıchardıa scabra
Rocket London	Sısymbnum ıno
Sandbur field	Cenchrus incertus
Shepherdspurse	Capsella bursa-pastons
Signalgrass	Brachiana platyphylla
Smartweed Pennsylvania	Polygonum pensylvanicum
Speedwell corn	Veronica arvensis
Sprangletop Mexican	Leptochloa uninervia
Sprangletop red	Leptochloa filiformis
Spurge annual	Euphorbia spp
Spurge prostrate	Euphorbia humistrata
Velvetleaf (buttonweed)	Abutilon theophrasti
Witchgrass	Panicum capillare
Woodsorrel yellow	Oxalis stricta
Woolly cupgrass	Enochloa villosa

APPLICATION RATES

Apply this product for preemergence weed control using broadcast spray equipment using the following rates

APPLICATION RATES		
Duration of Control*	This Product (qts /A)	This Product (fi ozs /1000 sq/ft)
Short term (2 to 4 months)	2 4	18
Long term (6 to 8 months)	4 8	36 (((

For Hand-held Spray Equipment Refer to the APPLICATION RATES table to describe the amount of this product to be applied per 1000 square feet. The amount of water to be used for the application should be sufficient for thorough coverage without runoff. Calibration of backpack or other hand-he'd equipment will vary with each operator. Determine the amount of water needed to treat 1000 square feet before mixing the spray solution. Refer to MIXING INSTRUCTIONS section of this label.

The efficacy of this product will improve if the application is followed by one-half inch of rainfall or its equivalent in sprinkler irrigation. Erratic weed control will result if this product is not activated by rainfall or irrigation within 30 days.

THIS PRODUCT IN TANK MIXTURE FOR ORNAMENTALS

This product can be tank mixed with glyphosate Finale[™] Ornamec[®] Gallery[™] simazine and other similar herbicides to control emerged weeds in ornamentals. Do not apply tank mixtures containing glyphosate or Finale over the top of ornamental plants

Before tank mixing a simple jar test is recommended to insure compatibility of herbicides. Always read the companion product label. Follow all use precautions and restrictions that apply to each product used. Always follow the most restrictive label.

USE RESTRICTIONS AND PRECAUTIONS FOR ORNAMENTALS

- 1 Do not apply this product in greenhouses shadehouses or other enclosed structures
- 2 Apply this product to established plantings
- 3 Do not make applications to grafted (or budded) liners at any time
- 4 Do not make over-the-top applications to liners or transplants
- 5 Do not apply this product to liners or transplants during bud break or at time of first flush of new growth
- 6 When making applications to established liners or transplants direct sprays to the soil
- 7 Do not allow spray to cover or penetrate foliage and/or buds or injury is likely to occur
- 8 Delay application to seedbeds transplant beds or liners until plants have become well rooted. Allow soil or planting mixes to settle firmly following transplanting before applying this product. Do not allow direct contact of this product with roots.
- 9 On established rootstock application of this product can be made before budding/grafting the plants
- 10 Plant only those plant species listed on this label into soil treated the previous season with this product to avoid plant injury
- 11 For container grown ornamentals delay first application of this product to bareroot liners 2 to 4 weeks after transplanting
- 12 It is recommended that treated plants be evaluated for 1 to 2 months prior to making application to a large number of plants. The user assumes responsibility for any crop damage or other liability.

LANDSCAPE AND GROUND MAINTENANCE

This product can be incorporated into landscape and ground maintenance programs to provide extended preemergence control of most annual grasses and certain broadleaf weeds. Areas to be treated such as fence lines and borders mulch beds parking areas and roadsides around statuary or monuments and similar areas should be free of emerged weeds before application. To remove emerged weeds either cultivate or tank mix this product with a postemergence herbicide labeled for such use

Refer to the APPLICATION RATES table under the ORNAMENTALS section of this label for use rates Avoid unintentional contact of spray solution of this product to stone wood or other porous surfaces as staining may occur. To avoid staining, rinse immediately

NON-BEARING FRUIT AND NUT CROPS AND VINEYARDS

(Almond, Apple, Apricot, Cherry, Citrus, Fig, Grape, Nectarine, Olive, peach, Pear, Pecan, Pistachio, Plum, Prune, Walnut English)

This product may be applied for preemergence control of most annual grasses and certain broadleaf weeds Apply the spray directly to the ground below the trees or vines. Refer to the *APPLICATION RATES* table under the *ORNAMENTALS* section of this label

Allow soil or planting mixes to settle firmly following transplanting and that there are no cracks that would allow direct contact of this product and roots. Directed sprays where soil and media surfaces are uniformly covered will result in best weed control and plant tolerance

For newly transplanted and one year old Grapevines apply only when they are dormant 'Do' not apply if buds have started to swell

This product may be used where the roots of a fruit vine nut or ornamental plant encroach into a treatable area

NON-CROPLAND INCLUDING TREE PLANTATIONS

This product can be used for maintenance of grounds in noncropland areas preemergence control of the weed species listed in and around established tree plantations (including Christmas trees) pulpwood and fiber farms in and around established ornamentals planted in noncropland areas such as highway rights-of-way and utility substations

This product may be used for hardwood and Conifer regeneration on conservation reserve program land or similar areas

Refer to the APPLICATION RATES table under the ORNAMENTALS section of this label for use rates. This product may be applied at planting or to established trees. When making an application at planting it is important that slit closure be achieved to avoid direct contact of tree roots with this product or this product being washed into the root zone via the open slit or root stunting may occur.

For post-emergence use tank-mix combination of this product with glyphosate Finale or other labeled herbicides are recommended Refer to approved labeling for species recommendations. Rates for the tank-mix compounds should be determined from the product labels of both this product and partner herbicides prior to use

Precaution must be exercised to prevent combination sprays from direct contact with desirable foliage or injury may result. This product plus diuron or simazine combinations will broaden weed control spectrum however use of combinations may restrict this product usage in sensitive areas. Refer to manufacturers labels for specific use directions precautions and limitations before use and follow those that are most restrictive.

TOTAL VEGETATION CONTROL

This product tank mixed with Arsenal® Plateau® glyphosate diuron Finale Oust® or other products can provide bare ground or total vegetation control. This product can be used to provide greater plant selectivity in areas where such action may be desired. Such sites might have roots of landscape vegetation ornamentals or desirable trees encroaching into the treated zone. Refer to tank mix partner labels regarding effects on desirable plants. Do not tank mix with Arsenal in California.

Applications may be made to existing weeds controlled by the partner herbicide. Recommended Rates should be determined from the product labels prior to use. Follow the most restrictive label instructions.

For Kochia Combinations of this product with Arsenal or diuron are recommended if control has been a problem for other herbicides

Refer to the APPLICATION RATES table under the ORNAMENTALS section of this label for use rates

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage or disposal

PESTICIDE STORAGE Do not store below 40°F Extended storage at temperatures below 40°F can result in the formation of crystals on the bottom of container. If crystallization does occur store the container on its side at room temperature (70°F) and rock occasionally until crystals redissolve

PESTICIDE DISPOSAL Pesticide wastes are toxic Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions contact your State Pesticide or Environmental Control Agency or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance

CONTAINER DISPOSAL

Nonrefillable Container (rigid material, less than 5 gallons) 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 and order, for 10 seconds after the flow begins to drip. 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 of order or 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 but ning. If but near stay out of smoke

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Nonrefillable Container (rigid material, 5 gallons up to < 250 gallons) 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 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. 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.

Refillable Container (≥ 250 gallons & Bulk) 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% 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

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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