197/3-36

4-12-2002

Please read instructions on reverse before completing for	om,	Form Approve	d. OMB No.	<u> 2070-0060</u>	Approval expires 2-28-9
United Environmental Pro	tection Agend	:Y	Registra Amendr Other		OPP Identifier Number 259579
App	lication for Pe	sticide - Section	<u>-</u> 1		
1. Company/Product Number 19713-36	2.	EPA Product Manager		\	Prosed Classification None Restricted
4. Company/Product (Name) DREXEL DIURON 4L HERBICIDE		M# 25/Herbicide Branch	1		None
5. Name and Address of Applicant (Include ZIP Code) Drexel Chemical Company, P.O. Box 133 MEMPHIS, TN 38113-0327	27 (b)(i), my product is sir	milar or ident	ical in cor	FIFRA Section 3(c)(3) The section and labeling
Check if this is a new address	F	Product Name			
	Sectio	n - II			
Amendment - Explain below. Resubmission in response to Agency letter dated Notification - Explain below.		Final printed laborated Agency letter da "Me Too" Applic	ited cation.	- NO	TIPICATION R 1 2 2052
Explanation: Use additional page(s) if necessary. (Fo One (1) copy of the label (36SP-0202++) revised per PR N A copy of the required certification statement is also submit	otice 98-10 is submitte		ges are detailed	out in the	accompanying cover letter.
	Section	n - 111			
Material This Product Will Be Packaged In:					
Child-Resistant Packaging Yes No No	Water Solo		2. Type of	Metal Plastic Glass	
* Certification must be submitted If "Yes" No. contains wgt. No. contains wgt.	per If "Yes" tainer Package w	No. per rgt container		Paper Other (Sp	pecify)
3. Location of Net Contents Information 4. Siz	e(s) Retail Conteiner	5. Le	ocation of Lab	el Direction	าร
6. Manner in Which Label is Affixed to Product	Lithograph Paper glued Stenciled	Other			
	Section	- IV			
1. Contact Point (Complete items directly below for iden	tification of individua	I to be contected, if nec	cessery, to pro	cess this e	application.)
Name LUZ G PIWONKA	Title REGISTRA	TION MANAGER		Telephone (901) 774-	No. (Liciude Area Code) 4370
Ce i certify that the statements I have made on this for I acknowledge that any knowlingity false or misless both under applicable law.				plete.	6. Date Application Received (Stamped)
2. Signature Cuza Piwonka	3. Title REGISTRAT	ION MANAGER			
4. Typed Name	5. Date				
LUZ G PIWONKA		April 4, 2002		- 1	



April 4, 2002

Submission of Revised Label per PR Notice 98-10
DREXEL DIURON 4L HERBICIDE (EPA Reg. No. 19713-36)

This notification is consistent with the Provisions of PR Notice 98-10 and EPA Regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the Confidential Statement of Formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under Sections 12 and 14 of FIFRA.

FOR DREXEL CHEMICAL COMPANY

NOTHPICATION

APR 1 2 2002

LUZ G PIWONKA Registration Manager



NOTE CATION

APR 1 2 2362

Diuron 4L

Herbicide

For controlling many Herbaceous weeds and Annual and Perennial grasses.

ACTIVE INGREDIENT:

Diuron: 3-(3, 4-dichlorophenyl)-

OTHER INGREDIENTS:

This product contains 4 pounds of Diuron per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SHAKE WELL BEFORE USING See FIRST AID Below

EPA Reg. No. 19713-36 EPA Est. No. 19713-MS-1

Net Contents:

FIRST AID

IF SWALLOWED:

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

- 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

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. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Causes eye irritation. May irritate nose, throat and skin. Avoid breathing dust or spray mist. Avoid contact with skin, eyes

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear: Long-sleeved shirt and long pants, chemical-resistant gloves (Category A) and shoes plus socks.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, 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 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

Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Cover or incorporate

Note: Add this statement to all container sizes of 5 gallons and higher: Do not discharge effluent containing this product into takes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA

GENERAL INFORMATION

This product is to be mixed with water and applied as a spray for selective control of weeds in certain crops and for non-selective weed control on non-cropland areas. It is non-corrosive to equipment, non-flammable and non-volatile.

This product may be applied to soil prior to emergence of weeds to control susceptible weed seedlings for an extended period of time; the degree of control and duration of effect will vary with the amount of chemical applied, soil texture, rainfall and other conditions. Soils high in clay or organic matter require higher dosages than soils low in clay or organic matter to obtain equivalent herbicide performance. Moisture is required to activate the chemical; best results occur if rainfall (or sprinkler irrigation) occurs within 2 weeks of application.

This product, applied pre-emergence, before emergence of crop and weeds. is an effective procedure because susceptible weeds are controlled in an early, vulnerable seedling state before they compete with the crop. With favorable moisture conditions, this product continues to control weeds for some time as the crop becomes better able to compete. Should weed seedlings begin to break through the pre-emergence treatment in significant numbers, secondary weed control procedures should be implemented. These include cultivation and post-emergence herbicide application.

This product may also be used to control emerged weeds.

Results vary with rate applied and environmental conditions; best results are obtained on succulent weeds growing under conditions of high humidity and temperatures of 70°F or higher. Addition of a non-ionic surfactant to the spray (where recommended) increases contact effects of this product. This product may be used as a directed post-emergence application, where spray nozzles are adjusted so that weeds are sprayed, but the crop is not. on the following crops: Artichokes, Corn (field), Cotton, Sorghum (grain), Sugarcane and established plantings of Apples, Bananas, Blueberries, Caneberries, Citrus, Gooseberries, Grapes, Macadamia nuts, Olives, Papavas, Peaches, Pears, Pecans, Plantains, Walnuts and certain Tree

Under specified conditions (see "DIRECTIONS FOR USE"), this product without surfactant may be applied over the top of Alfalfa (established, dormant or semi-dormant). Asparagus (established), Birdsfoot trefoil (established, dormant), Grass seed crops (established), Oats, Pineapples, Plumosus fern (established, mowed), Red clover (established, dormant), Sugarcane and Wheat.

Weed species vary in susceptibility to this product and they may be more difficult to control when under stress. Combinations of this product with other herbicides (as registered) increase the number of species controlled; consult labels of the companion products for this and other information. Since the effect of this product varies with soils, uniformity of application and environmental conditions, it is suggested that growers limit their first use to small areas. Observe all precautions and limitations on labeling of all products used in mixtures.

Manufactured By:



SINCE 1972

· 36SP-0202++

DIURON 4L Page 1 of 8

IMPORTANT: Injury to or loss of desirable trees or other plants may result from failure to observe the following: Do not apply (except as recommended for crop use) or drain or flush equipment on or near desirable trees or other plants or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. Do not use on home plantings of trees, shrubs or herbaceous plants, nor on lawns, walks, driveways, lennis courts or similar areas. Prevent drift of spray to desirable plants. Do not contaminate any body of water. Keep from contact with fertilizers, insecticides, fungicides and seeds. Thoroughly clean all traces of this product from application equipment immediately after use. Flush tank, pump, hoses and boom with several changes of water after removing nozzle tips and screens (clean these parts separately).

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 (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 (Category A) 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 Worker Protection Standard (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 unprotected persons and pets out of treated areas until sprays have dried.

Non-crop weed control is not within the scope of the WPS.

This product should be used only in accordance with recommendations on this label. Manufacturer will not be responsible for losses or damages resulting from use of this product in any manner not specifically recommended by the Manufacturer. User assumes all risks associated with such non-recommended use.

SELECTIVE USE IN CROPS: Pre-emergence herbicide selectively controls Annual weeds such as:

	CONTROL		
0.6 to 0.8 qts. per Acre 1.2 to 1.6 qts. per Acre			
Barnyardgrass	Amsinckia (Fiddleneck)	Knawel	
(Watergrass)	Annual bluegrass	Pennycress	
Crabgrass	Annual sweet	Rattall fescue	
Lambsquarters	vernalgrass	Red sprangletop	
Pigweed	Annual groundcherry	Shepherdspurse	
Purslane	Annual morningglory	Tansymustard	
Ragweed	Chickweed	Velvetgrass	
	Com spurry	Wild buckwheat	
	Dogfennel	Wild lettuce	
	Foxtail	Wild mustard	
	Gromwell		
	1.6 to 4.8 qts. per Acre		
Ageratum	Horseweed	Pineappleweed	
Annual lovegrass	Johnsongrass	Pokeweed	
Annual ryegrass	(Seedling)	Rabbit tobacco	
Annual smartweed	Kochia	Ricegrass	
Annual sowthistle	Kyllinger (Kyllinga)	Sandbur	
Com speedwell	Marigold	Spanishneedles	
Dayflower	Mexican clover	Velvetleaf	
Flora's paintbrush	Orchardgrass	(Buttorweed)	
Hawksbeard	Peppergrass	Wild radish	
	PARTIAL CONTROL		
0.8 qt. per Acre	3.2 qts. per Acre	6.4 to 8.0 qts. per Acre	
Annual morningglory	Horsenettle	Guineagrass	
Cocklebur	Quackgrass	Maidencane	
Prickly sida (Teaweed)	-	Pangolagrass	
Sesbania `		1 5 5	
Sicklepod		1	

APPLICATION DIRECTIONS

AERIAL APPLICATION: For Alfalfa, Asparagus, Barley (Winter), Cotton (pre-plant or pre-emergence only), Grass seed crops, Pineapple, Sugarcane and Wheat (Winter), application may be made by aircraft at 5 to 10 gallons of water per acre. Avoid overlapping of spray swath and avoid application under conditions where excessive drift may occur. Where land is bedded, make application parallel to rows.

GROUND APPLICATION: Use a boom power sprayer properly calibrated to a constant speed and rate of delivery. Openings in screen should be 50-mesh or larger. Continuous agitation in the spray tank is required to keep the material in suspension. Agitate by mechanical or hydraulic means. If bypass or return line is used, it should terminate at the bottom of tank to minimize foaming. Avoid overlapping and shut off spray booms while starting, turning, slowing or stopping or injury to crop may result.

PRE-EMERGENCE: Use 25 to 40 gallons per acre and spray pressure of 30 to 40 psi.

POST-EMERGENCE: For post-emergence application, use sufficient volume (minimum of 25 gallons per acre) for thorough coverage of weed foliage. Use spray pressure of 20 to 25 psi to keep spray drift to a minimum. This product, at recommended rates, controls seedling Annual weeds such as Annual morningglory, Barnyardgrass (Watergrass), Crabgrass, Crowfoot, Goosegrass, Pigweed and Purslane. Addition of a surfactant to the spray (where recommended) increases contact effects of this product. Best results are obtained on succulent weeds growing under conditions of high humidity and temperatures of 70°F or higher.

SPRAY PREPARATION: Mix proper amount of this product into necessary volume of water. Where use of a surfactant is recommended, dilute with 10 parts of water and add as last ingredient to a nearly full tank.

REPLANTING: Unless otherwise directed, do not replant treated areas to any crop within 2 years after last application as injury to subsequent crops may result.

RATES: All rates of this product are expressed as broadcast rates, for band treatment, use proportionately less. For example, use one-third of the broadcast rate when treating a 14-inch band where row spacing is 42 inches. Where a range of dosages is given, use the lower rate on Coarse textured soils low in clay or organic matter and the higher rate on Fine textured soils high in clay or organic matter. For post-emergence application, use the lower rate on smaller weeds and the higher rate on larger weeds.

SOIL LIMITATIONS: Crop injury may result from failure to observe the following:

Unless ótherwise directed, do not use on Sand, Loamy sand or Gravelly soils or exposed subsoils, nor on Pecans where organic matter is less than 0.5%, nor on Alfalfa, Apples, Artichokes, Barley (Winter), Citrus, Cotton, Grapes, Oats, Olives, Papayas, Peaches, Pears, Sorghum, Sugarcane, Walnuts and Winter wheat where organic matter is less than 1%, nor on Blueberries, Birdsfoot trefoil, Caneberries, Gooseberries, Macadamia nuts and Peppermint where organic matter is less than 2%.

Pre-emergence weed control will be reduced on high organic matter soils such as Peat or Muck.

CHEMIGATION (Except CA)

Apply this product only through sprinklers, including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set or hand move irrigation system(s). Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.

If you have questions about calibration, you should contact your State Extension Service Specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

System must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Continuous agitation of the pesticide supply tank for the duration of the application period is recommended.

The pesticide is to be applied continuously for the duration of the water application.

RECOMMENDED USES

FIELD CROPS (See Soil Limitations)

A good seedbed must be prepared before pre-emergence use of this product as crop injury may result if application is made to ground which is cloddy or compacted, resulting in improperly planted seed. Plant seed to depth specified. Unless otherwise directed, surface of the soil should not be cultivated or disturbed after application of this product and before emergence of the crop as weed control may be reduced and crop injury may result. However, if moisture is insufficient to activate the herbicide, a shallow cultivation (rotary hoe preferred) should be made after the emergence of crops while weeds are small enough to be controlled by mechanical means.

ALFALFA

Treat only stands established for 1 year or more. Do not apply to seedling Alfalfa nor to Alfalfagrass mixtures; do not apply to Alfalfa under stress from disease, insect damage, shallow root penetration (such as on shallow hard pans), or alkali spots, nor to flooded fields as crop injury may result. Do not spray on snow-covered or frozen ground.

ID, OR, WA: Use 1.2 to 2.4 quarts per acre; for control of Volunteer alfalfa, use 3.2 quarts per acre. Apply in Fall after Alfalfa becomes dormant but no later than mid-December.

CA (Dormant and Semi-Dormant Varieties): Use 1.2 to 2.4 quarts per acre; for control of Volunteer alfalfa, use 3.2 quarts per acre. Apply in Fall or Winter after Alfalfa becomes dormant or semi-dormant, but before growth begins in the Spring. Crop injury may result if application is made to actively growing Alfalfa. For best results, apply before weeds have emerged or become established (2 inches in height or diameter). Control of established weeds is improved by applying this product with a suitable contact herbicide registered for such use. Sufficient rainfall for soil activation of this product is unlikely in CA after February 1. Treated areas may be replanted to any crop after one year from last application if rate does not exceed 1.6 quarts per acre.

AZ, NV: Use 1.2 to 2.4 quarts per acre; apply in Fall after Alfalfa becomes dormant but no later than January.

Eastern CO, KS: For control of Tansymustard, apply 0.8 quart per acre shortly after emergence of Mustard in the Fall or Winter; use 1.6 quarts per acre if weeds are 2 inches to 4 inches in height. Alternatively, if other Annual weeds are present, apply 1.6 to 2.4 quarts per acre in February or March.

Other Areas Where Alfalfa Becomes Winter Dormant: Use 1.2 to 2.4 quarts per acre (1.2 to 1.6 quarts per acre East of Appalachian Mountains). Apply in March or early April, but before Spring growth begins.

ARTICHOKES

CA: Apply 1.6 to 3.2 quarts per acre in late Fall or early Winter after the last cultivation. Apply before weeds germinate or to emerging seedlings. Direct spray to cover the area between the rows and at the base of Artichoke plants, keeping contact with crop plants at a minimum.

ASPARAGUS

Apply as a band or broadcast treatment. Do not apply to young plants during the first growing season (except as noted below), nor to newly seeded Asparagus, nor on plants with exposed roots as severe injury may result. Pre-emergence weed control will be reduced on soils with greater than 5% organic matter.

Established Plantings: On Light sandy soils and other soils low in clay or organic matter, apply 0.8 to 1.6 quarts per acre. On soils high in clay or organic matter use 1.6 to 3.2 quarts per acre. Two applications may be used; the first application should be made before weeds become established but no earlier than 4 weeks before spear emergence and no later than the early cutting period (if weeds are controlled into the cutting period by cultural practices, application may be delayed until immediately after the last cultivation); a second application may be made immediately following completion of harvest provided rainfall is expected. When two applications are used in one season, do not exceed 2.4 quarts per acre per application. In WA (irrigated crop), apply a single treatment of 3.2 quarts per acre. If treatment is delayed until late Winter or early Spring, incorporation of the chemical in the top 1 inch to 2 inches of soil may substitute for lack of rain to activate the herbicide.

Newly Planted Crowns—CA (San Joaquin Delta): Make a single application of 1.6 to 3.2 quarts per acre on soils high in clay or organic matter; use the lower rate on Clay loams and the higher rate on Peat soils. Do not use on soils containing less than 2% organic matter. Soils must be settled by rainfall or irrigation prior to treatment. Do not treat crowns planted to a depth of less than 2 inches.

BARLEY (Winter)

Western OR and Western WA: For drill-planted Barley, make a single application of 1.2 to 1.6 quarts per acre as soon as possible after planting but before emergence of Barley. Do not replant treated areas to any crop within 1 year after the last application as injury to subsequent crops may result.

BERMUDAGRASS PASTURES (Newly-Sprigged)

Apply 0.8 to 2.4 quarts after planting and before emergence of Bermudagrass or weeds. Alternatively, for control of emerged Annual weeds up to 4 inches in height, apply 0.4 to 0.8 quart per acre; add a surfactant per 25 gallons of spray. If Bermudagrass has emerged at time of treatment, temporary burn of exposed plant parts may occur.

Plant sprigs (stolons) 2 inches deep in a well-prepared seedbed; do not treat areas where sprigs are planted less than 2 inches deep as crop injury may result. Do not graze or feed foliage from treated areas to livestock within 70 days after application.

BIRDSFOOT TREFOIL (Lotus)

Western OR: Treat only stands established for at least 1 year; do not apply to seedling Trefoil as injury may result. Make a single application of 1.6 quarts per acre when Trefoil is dormant (October 15 to December 15). Do not replant treated areas to any crop within 1 year after last application as injury to subsequent crops may result.

CORN (Field)

Post-emergence: Make a single application of 0.6 quart per acre in combination with non-pressure nitrogen solution. If nitrogen solution is not used, apply 0.8 quart per acre. Add a surfactant for each 25 gallons of spray. Apply as a directed spray when Corn is at least 20 inches high and weeds are no taller than 3 inches. DO NOT APPLY OVER TOP OF CORN. Do not replant to any crop within 1 year except Corn, Cotton and Grain sorghum may be planted the Spring following treatment.

Pre-emergence—AR, LA, MS and TN: Make a single application of 0.5 to 0.8 quart per acre as a broadcast or band treatment after planting, but before Corn emerges. Plant Corn at least 1.5 inches deep. Do not replant treated areas to crops other than Corn or Cotton within 4 months following band treatment and 6 months following broadcast treatment as crop injury may result.

COTTON

During a single crop season, do not exceed the following amounts of this product per acre as injury to subsequent crops may result: 0.8 quart on Loamy sand; 1.2 quarts on Sandy loam; 1.6 quarts on Clay loam; 2.2 quarts on Clay. Injury may occur if this product is used in conjunction with soil-applied organic phosphate pesticides. Do not allow livestock to graze treated Cotton.

Preplant—AZ and CA: Use this product alone or apply as a separate operation following pre-plant broadcast treatment with Trifluralin EC (incorporated according to directions on product label). Apply this product as a broadcast spray after beds are formed, pre-irrigated and final seedbeds prepared. Prior to planting, drag-off the tops of the beds and plant in moist soil not treated with this product. Treated soil is returned to the bed after planting when irrigation furrows are reformed after Cotton has emerged. If more than two furrowing-out operations are made prior to lay-by or deep furrows are made early, weed control may be reduced in furrow bottoms. Use at the following rates:

This Product Alone (Pre-plant): 0.8 to 2 quarts per acre. This Product Following Trifluralin EC:

	Rate Per Acre		
Soil Texture	Trifluralin EC	This Product	
Sandy loam, Loam, Silt loam, Silt	1 pt.	0.5 to 0.8 qt.	
Sandy clay loam, Clay loam, Silty clay loam, Sandy clay, Clay	1.5 pts.	0.8 to 1 qt.	

NOTE: Seedling disease may weaken plants and increase the possibility of injury from the use of Triffuralin EC followed by this product. These treatments should be used only in conjunction with a standard fungicide seed treatment plus a good supplemental soil fungicide program such as Captan - PCNB mixture.

Pre-emergence—Except AZ, CA: Use this product alone or apply as a separate operation following pre-plant treatment with Trifluralin EC. Apply this product after planting but before Cotton emerges. Do not treat Cotton in deep furrows as crop injury may result. Use only where Cotton is planted on flat or raised seedbeds. Shallow incorporation (no deeper than 0.25 inch) with a rotary hoe or similar equipment following planting usually improves results especially during dry weather. A wide press wheel should be used on the planter to provide a level seedbed for subsequent early season post-emergence treatments. If moisture is insufficient to activate this product or if soil becomes crusted before crop emerges, a shallow rotary hoeing (no deeper than 0.25 inch) should be made before weeds become established.

NOTE: Do not use on Sand or Loamy sand soils.

This Product Alone: Make a single application as a broadcast or band spray using the following broadcast rates; for band treatment, use proportionately less.

Soil Texture**	Rate per Acre	
Sandy loam, Loam, Silt loam, Silt	0.8 qt.	
Sandy clay loam, Clay loam, Silty clay loam, Sandy clay	1 qt.	
Silty clay, Clay	1.6 qts.	

This Product Following Trifluralin EC Pre-plant: Apply Trifluralin EC prior to planting as a broadcast or band treatment; incorporate according to directions on Trifluralin EC label. As a separate operation, apply this product as a band treatment 14 to 20 inches wide after planting but before Cotton emerges. Use the following broadcast rates. For band treatment, use proportionately less.

Į.	Rate Per Acre		
Soil Texture	Pre-plant Trifluralin EC	Pre-emergence This Product	
Sandy loam, Loam, Silt loam, Silt	1 pt.	0.8 qt.	
Sandy clay loam. Clay loam, Silty clay loam, Sandy clay, Silty clay, Clay	1.5 pts.	1.0 to 1.6 qts.	

Post-emergence: Apply only as a directed spray to cover weed foliage; adjust nozzles to minimize contact of Cotton leaves with spray or drift or crop injury may result. DO NOT SPRAY OVER TOP OF COTTON.

Early Season: Apply when Cotton is at least 6 inches tall and when weeds are actively growing and do not exceed 2 Inches in height. Apply as a band treatment at the following rates: for each 25 gallons of spray, add a surfactant. Two applications may be made if needed.

Band Treatment			
Weed Problem (Up to 2 inches tall) This Product per Acre (Broadca			
Annual grasses	0.4 qt.		
Pigweed	0.2 qt.		

For control of seedling Perennial grasses such as Johnsongrass and partial control of Nutsedge or when weed growth is under drought stress or as high as 4 inches, add 1.5 to 2.5 pints of DSMA (63% anhydrous or the equivalent active ingredient) to above spray mixture. If DSMA is used, do not apply after first bloom.

Late Season (Lay-By): Apply 0.8 to 1.2 quarts per acre (0.8 to 1.6 quarts in AZ and CA) when Cotton is at least 12 inches tall (at least 20 inches tall for Pima S-2). For control of germinating weed seedlings, apply to soil beneath Cotton plants and between rows immediately after last cultivation. In irrigated Cotton, best weed control is obtained if the field is irrigated within 3 to 4 days after application; thoroughly wet the surface of the ground over the row to carry the herbicide into the root zone of germinating weeds. Alternatively, for control of emerged Annual weeds (up to 4 inches in height) at layby time, make a single application in combination with a surfactant or use 0.4 to 0.6 quart of this product (plus surfactant) per acre and repeat later if needed.

Replanting: If initial seeding fails to produce a stand, Cotton may be replanted in soil treated pre-plant or pre-emergence with this product, alone or following Trifluralin EC. Wherever possible, avoid disturbing original bed. If necessary to rework soil before replanting, use shallow cultivation such as discing; do not relist nor move soil into the original drill area. Plant seed at least 1 inch deep. Do not re-treat field with a second pre-plant or pre-emergence application during the same crop year as injury to the crop may result.

Subsequent crops:

This Product - Type of Application	Crops That May Follow Treated Cotton
Band pre-emergence -OR- post-emergence	Any crop 4 months after last application
Band pre-emergence plus post-emergence -OR- Broadcast pre-emergence (and pre-plant) -OR- Broadcast pre-emergence plus band post-emergence	Com, Cotton, Grain sorghums (not Sorgos or Forage sorghums nor Grass sorghums) or Soybeans the next Spring. Do not replant treated areas to any other crop within 1 year after last application as injury to subsequent crops may result.
Broadcast post-emergence (lay-by)	Com, Cotton. Grain sorghums (not Sorgos or Forage sorghums nor Grass sorghums) the next Spring. Do not replant treated areas to any other crop within 1 year after last application as injury to subsequent crops may result

For subsequent crops in fields where Trifluralin EC is used, follow instructions on Trifluralin EC product label(s).

GRASS SEED CROPS (Perennial)

Except as noted, apply only to established plantings at least 1 year old. CO, KS, NM and OK: On Sand bluestem, Side-oats grama and Switchgrass, apply 1.6 to 2.4 quarts per acre during the dormant period shortly before weed seedlings emerge. Do not apply after crop begins growth in the Spring as crop injury may result. In fields where ash residues have accumulated from burning straw, use 2.4 quarts per acre; spread unburned chaff or straw with a harrow or chopper before application.

Western OR: On Alta fescue, Astoria bentgrass, Highland bentgrass, Kentucky bluegrass (Merion bluegrass) and Orchardgrass, apply 1.6 to 3.2 quarts per acre between October 1 and November 15. In fields where ash residues have accumulated from burning straw, use 2.4 to 3.2 quarts per acre; spread unburned chaff or straw with a harrow or chopper before application. If perennial Velvetgrass (Holcus lanatus) is a problem, use 3.2 quarts per acre. For best results, apply as soon as possible after Fall rains start. Established weeds (beyond 2- to 4-leaf stage) should be removed prior to treatment.

Well-established vigorous stands of Spring-planted Alta fescue, Kentucky bluegrass and Orchardgrass may be treated the following Fall provided the crop is planted before April 1 and treatment is not applied before October 15; use 1.6 quarts per acre.

Fine Fescue Grass Seed Crops (including Chewings, Creeping red and Hard fescue types) for the suppression of Rattail fescue: Apply at 0.8 to 1.6 quarts per acre on soils having at least 1% organic matter. Do not use on Sand, Loamy sand, Gravelly soils or exposed subsoils.

Crop Stage and Application Timing: This product is recommended for use on healthy, vigorous stands of Fine fescue. This product can be applied to stands established at least 1 year or to new plantings that have been established for at feast 6 months and have a minimum of eight tillers at time of application.

Apply in Fall before Grass weeds are beyond the 1- to 2-leaf stage and before Broadleaf weeds are larger than 1 to 2 inches tall or across. Use the high end of the rate range for large weeds or where weed populations are high.

Approximately 0.5 to 1 inch of rainfall or sprinkler irrigation is needed to move this product in the weed zone before weeds develop an established root system. Weeds larger than the size indicated or those having a well-established root system before this product is properly activated by rainfall/irrigation may not be adequately controlled.

Weed burning may be reduced by heavy straw residues or ash from field burning.

Tank Mixes and Sequential Treatments: This product can be applied either alone or in a program involving tank mixes and/or sequential treatments with other herbicides and adjuvants. When using a tank mix with other herbicides, use 0.8 to 1.2 quarts per acre unless prior experience indicates it is safe to use higher rates. Tank mixes with other herbicides can increase the risk of crop injury. When using certain tank mixes for the first time, limit use to a small area to determine safety before treating large areas.

Precautions

Do not replant treated areas to any crop within 2 years of last application as injury to next crop may occur.

Do not apply to snow covered or frozen ground as injury to the crop or poor weed control may result.

Do not treat stands lacking in vigor due to poor fertility, environmental stress, insects, disease or damage from other herbicides.

ID. OR, WA: For use in newly planted Bentgrass, Chewing fescue, Kentucky bluegrass, Perennial ryegrass, Orchardgrass and Tall fescue. During planting operation, spray a suitable brand of activated charcoal as a 1-inch band on soil surface at a rate of 300 pounds per acre (broadcast basis; equivalent to 15 pounds per acre of crop when row spacing is 20 inches). Mount nozzles to apply directly over seed rows to prevent crop injury. Follow with this product as a single broadcast spray at a rate of 2.0 to 2.4 quarts per acre. Apply as soon as possible after planting, but before crops or weeds emerge and before rains or sprinkler irrigation. Fall or Spring plantings may be treated. Best results usually occur with early Fall plantings. Treatment will not control Downy brome or Wild oats.

PERENNIAL RYEGRASS, TALL FESCUE, KENTUCKY BLUEGRASS AND FINE FESCUE (Grown for Seed) (OR Only)

For control of certain Broadleaf weeds and Annual grasses apply this product only to well-established vigorous stands of grasses as directed below. Use sufficient water, a minimum of 26 gallons per acre, for thorough coverage of weed foliage. For best results, make application at the onset of Fall rains and before weeds become established (typically October 1 through November 15). Weeds beyond the 2- to 4-leaf stage will usually not be controlled. Use higher rates within the range listed when treating larger weeds and heavier weed infestation. Weed control may be reduced where straw or ash residues have accumulated on the soil surface. Lack of moisture to activate the herbicide may reduce weed control. Tank mixtures or sequential treatments with other herbicides may reduce crop tolerance and increase risk of crop injury. When using this product in a tank mix or in a sequential treatment with other herbicides, do not use the maximum rates listed below unless compatibility and the potential for phytotoxicity have been evaluated. Crop tolerance may be reduced and the likelihood of crop injury may increase when crop is under stress caused by weather, diseases and insects. Do not apply this product through any type of irrigation system.

Perennial Ryegrass (Established): Apply 0.8 to 1.6 quarts per acre per season (October 1 through mid-January) to control Seedling grasses and Broadleaf weeds such as Annual bluegrass and others named on the product label.

Tall Fescue (Established): Apply 1.6 to 3.2 quarts per acre per season (October 1 through mid-January) to control Seedling grasses and Broadleaf weeds such as Rattail fescue and others named on the product label.

Kentucky Bluegrass (Established stands East of the Cascade Mountains): Apply 1.2 to 2.4 quarts per acre per season (October 1 through mid-January) for suppression of Rattail fescue and certain other Seedling grasses and Broadleaf weeds named on the product label. Downy brome is not controlled. Do not use on *Poa trivialis* grass seed varieties.

Fine Fescue (Illahee, Rainier, Chewings and related varieties including Hard fescue) (Established stands West of the Cascade Mountains): Apply 0.8 to 1.6 quarts per acre for suppression of Rattail fescue and certain other Seedling grasses and Broadleaf weeds named on the product label. Make only 1 application per year. Do not use this product more than two years in succession in the same field.

ESTABLISHED PERENNIAL BLUEGRASS (Grown for Seed) (WA Only)

Broadcast 0.4 to 1 quart of this product per acre in enough dilutant to get even distribution. Apply in Spring before rapid growth of Bluegrass begins and when Windgrass is still small (1- to 4-leaf). Do not use on Coarse (Sandy) textured soils. Do not apply this product through any type of irrigation system.

OATS

Do not replant treated areas to any crop within one year after last application as injury to subsequent crops may result.

Drill-Planted Spring Oats—ID, Eastern OR, Eastern WA: Use in areas where average annual rainfall exceeds 16 inches. Make a single application of 0.8 to 1.2 quarts per acre after planting, either before or after Oats emerge but within 6 weeks of planting. Best results are usually obtained when application is made 3 to 4 weeks after planting. Apply before weeds are 3 to 4 inches tall.

Drill-Planted Winter Oats and Mixtures with Peas or Vetch—Western OR and Western WA: Make a single application of 1.2 to 1.6 quarts per acre as soon as possible after planting but before emergence of the crop.

PEPPERMINT (Pacific Northwest)

Apply at 0.6 to 0.8 quart per acre on soils having 1% to 2% organic matter. Apply at 0.8 to 1.6 quarts per acre on soils having 2.1% to 3.0% organic matter. Apply at 1.6 to 2.4 quarts per acre on soils having more than 2.0% organic matter. Do not apply to Sand, Loamy sand, Gravelly soils or exposed subsoils. Do not apply to soils that have a high salt content and/or high water table or poor drainage that retards Mint root development resulting in a shallow root system. Do not apply to soils having less than 1% organic matter.

Application Timing: Apply this product to established stands of Mint during the late Winter dormant period or after flaming in the Spring prior to the emergence of new growth. Do not cultivate after application

If weeds are present at the time of application, the use of a surfactant at 0.25% v/v or crop oil concentrate at 1.0% v/v may be used to increase the performance of this product post-emergence to weeds. Tank Mixes and Sequential Treatments: This product can be applied either alone or in a program involving tank mixes and/or sequential treatments with other herbicides and adjuvants providing this product is not applied to actively growing Mint plants.

When using a tank mix with other herbicides, use the lower end of the rate range of this product unless prior experience indicates it is safe to use higher rates. Tank mixes and sequential treatments with other herbicides can increase the risk of crop injury. When using a certain tank mix or sequential treatment for the first time, limit use to a small area to determine safety before treating large areas.

RED CLOVER (Western OR)

Make a single application of 1.6 quarts per acre on established Red clover stands (at least 9 months). Apply this product when Red clover is dormant (October 15 to December 15). Do not apply to seedling Red clover and do not replant treated area to any crop within one year after last application.

Treatment will control Annual weeds such as Bluegrass, Chickweed, Hawksbeard, Rattail fescue, Ryegrass and Velvetgrass.

SORGHUM-GRAIN (Southwestern States)

Apply 0.2 to 0.4 quart per acre. For each 25 gallons of spray add a surfactant. Apply as a directed post-emergence broadcast or band spray after Sorghum is 15 inches tall to control weeds 2 to 4 inches in height. DO NOT SPRAY OVER TOP OF SORGHUM. Use the lower rate on Broadleaf weeds up to 2 inches tall: use the higher rate on Grasses up to 2 inches and Broadleaf weeds up to 4 inches tall. When the lower rate is used, a second application may be made, if needed, provided the amount applied in one crop year does not exceed 0.4 quart per acre. Treatment of weeds under drought stress is usually ineffective. Do not replant treated areas to crops other than Corn or Cotton within 4 months following band treatment and 6 months following broadcast treatment as crop injury may result.

SUGARCANE

To prevent possible crop injury on new cane varieties, tolerance to this product should be determined prior to adoption as field practice. Do not treat Sugarcane growing on thinly covered subsoils or rocky areas as crop injury may result. Temporary chlorosis of the crop may result from application over emerged cane; to minimize chlorosis, use directed post-emergence sprays.

Pre-emergence — FL: For high organic soils, apply 1.6 to 3.2 quarts per acre as a broadcast or band spray prior to weed emergence after planting or after harvesting plant crop (for ration crop). Post-emergence — FL: Make 1 or 2 applications of 1.6 quarts per acre as needed by directed spray inter-row. Alternatively, for Panicum control, make up to 3 applications of 0.4 to 0.8 quart per acre as a directed spray after cane has emerged but before Panicum exceeds 2 inches in height: add 1 quart of a non-ionic surfactant per 100 gallons of spray. Adjust nozzles to spray beneath cane plants and between rows to cover weed foliage and to minimize contact of cane leaves with spray or drift. Do not apply more than 4.8 quarts total per acre between planting (or rationing) and harvest.

Post-emergence — HI and Puerto Rico: Apply 3.2 to 6.4 quarts per acre as a broadcast spray prior to weed emergence after planting or after harvesting plant crop (for ration crop). A second and third application of 1.6 to 3 quarts per acre may be made as a broadcast spray over emerged cane or by directed spray inter-row. If weeds are emerged, add a surfactant to the spray per 100 gallons and apply as a directed spray. DO NOT SPRAY OVER TOP OF CANE.

Do not apply more than 3 treatments, nor more than 8 quarts (Puerto Rico) or 9.6 quarts (HI) total per acre between planting (or ratooning) and harvest. Treated areas may be planted to Pineapple or Sugarcane one year after last application.

LA: Apply 2.4 to 3 quarts per acre. This product may be applied as a broadcast spray after planting and following the harvesting of Sugarcane. This product may also be applied broadcast in early Spring. Application is best when made prior to weed emergence. Apply this product as a post-directed spray immediately after the last cultivation. Direct the spray application to the base (no more than one-third of the plant height) of the Sugarcane plants. When small weeds (3 inches or less) are present at application, add a surfactant at 0.25% v/v or crop oil concentrate at 1.0% v/v to the spray mix.

PRECAUTIONS: Temporary leaf yellowing may occur following application. Do not apply more than 6 quarts per acre broadcast per year. For band application, reduce the above broadcast rates proportionately to the width of the band using the following formula:

Band width in inches x Broadcast Row width in inches Rate

padcast ₌ Band Rate
Rate Per Acre

WHEAT (Winter)

Crop injury may result where severe Winter stress, disease or insect damage follows application. Winter-sensitive varieties such as McDermid and Hystop may be less tolerant of this product than Winter-hardy varieties such as Gaines and Nugaines. Crop injury may also result from failure to observe the following: Do not use on Sand or Loamy sand soils nor on Gravelly or Sand loams low in organic matter (less than 1%), nor on thinly covered or exposed subsoil areas (clay knolls); do not treat Wheat planted less than 1 Inch deep; do not treat Wheat where Winter climatic conditions have caused "heaving" of plants; do not treat Wheat plants lacking in vigor due to poor emergence, insect damage, disease, high alkalinity or other causes; do not apply after Wheat has reached the "boot" stage of maturity. Unless otherwise specified, do not use with surfactants or nitrogen solutions. Do not replant treated areas to any other crop within 1 year after last treatment (except as noted) as injury to subsequent crops may result.

ID, OR and WA (East of Cascade Range): In areas where average annual rainfall exceeds 16 inches, make a single application of 0.8 to 1.2 quarts per acre. Fall Treatment: For early Fall-planted Wheat (seeded before September 10), apply 3 to 6 weeks after planting but before weeds are 3 to 4 inches tall. Treatment after October 1 has generally given best results. Application should not be made after soil freezes in the Fall. Wheat planted in late October should not be treated until the following Spring. Spring Treatment: Apply as soon as Wheat starts to grow in the Spring. Treatment made prior to April 10 will usually give good results provided weed growth is less than 4 inches tall. Application later than May 1 may give poor results.

Alternatively, make a single application of 0.4 to 0.8 quart of this product plus 0.25 pound bromoxynil per acre as a tank mixture, either in the Fall after Wheat has emerged but before soil freezes or in the Spring as soon as soil thaws; apply before weeds are 2 inches tall or across.

In areas where average annual rainfall is 10 to 16 inches, following Fall planting, make a single application of 0.8 to 1.2 quarts per acre when sufficient moisture is available to germinate Wheat seed. Apply before soil freezes and before weeds are 2 inches tall. Application later than March 1 may give poor results.

NOTE: If Fall-planted Wheat fails to grow due to Winter kill or adverse growing conditions after Fall treatment, only fields treated before November 1 may be replanted to Spring Wheat. Spring Wheat should not be planted before April 1 and only after deep discing and plowing to a depth of 4 to 6 inches prior to planting. Do not re-treat field with a second application during the same crop year as injury to the crop may result.

OR and WA—West of Cascade Range: Make a single application of 1.2 to 1.6 quarts per acre as soon as possible after planting; if Wheat and weeds have emerged, apply before weeds are 3 to 4 inches tall. Alternatively, apply a tank mixture of this product plus bromoxynil as detailed above for "East of Cascade Range".

Other Areas of OR and WA: Make a single application in the Spring as soon as Wheat (Fall-planted) starts to grow and before weeds are 2 inches tall. Application later than May 1 may give poor results.

Central Plains and Midwest: Use 0.8 to 1.6 quarts per acre.

KS, OK and **TX**: Do not use on Sand or Sandy loam soils. Use 0.8 quart per acre on Silt and Silt loam soils and 1.2 to 1.6 quarts per acre on Clay, Clay loam and Silty clay loam soils.

Northeast: Use 0.8 to 1.2 quarts per acre.

FRUIT AND NUT CROPS (See Soil Limitations)

Unless otherwise directed, make a single application per year as directed spray, avoiding contact of foliage and fruit with spray or drift. Do not graze livestock in treated orchards or groves.

APPLES

Use this product alone or apply as a tank mix with Sinbar®.

This Product Applied Alone: Use only under trees established in the orchard for at least 1 year: do not treat varieties grafted on full-dwarf root stocks. Apply 3.2 quarts per acre in the Spring (March through May). In the Far West, treatment may be made in Winter (December through February) or apply 1.6 quarts per acre as a post-harvest treatment followed by 1.6 quarts in the Spring.

GA: Apply 1.6 to 2.4 quarts per acre in the Spring. Repeat application in the Fall but do not use more than 3.2 quarts per acre per year. For each 25 gallons of spray mixture, add a surfactant to improve control of small, emerged weeds.

This Product plus Sinbar: Use only under trees established in the orchard for at least 2 years. Apply either in the Spring or after harvest in the Fall before weeds emerge or during early seedling stage of weed growth.

	Rate P	er Acre	
1 to 2% Organic Matte		More Than 2% Organic Matter	
Soil Texture	This Product (plus) Sinbar	This Product (plus) Sinbar	
Sandy loam	0.8 qt. + 1 lb.	1.2 qts. + 1.5 lbs.	
Loam, Sitt loam, Sitt	1.2 qts. + 1.5 lbs.	1.6 qts. + 2 lbs.	
Clay loam, Clay	1.6 qts. + 2 lbs.	1.6 qts. + 2 lbs.	

Where crop is grown under furrow-irrigation or under raised-berm flood irrigation (trees 4 to 6 inches above waterline), apply only as a band treatment. Do not treat trees planted in the bottom of irrigation furrows, nor trees grown under flat flood or basin irrigation, as injury to trees may result. Where complete weed control to harvest is desired, additional weed control measures may be required during the growing season.

BANANAS AND PLANTAINS

New Plantings: To control Annual weeds, apply 1.2 to 2.4 quarts per acre after planting but before weeds emerge. Do not apply to loose soil directly over the planting material.

Established Plantings: For control of Annuals and for top-kill of Perennials such as Bermudagrass, Birdseed grass and Guineagrass, apply 2.4 to 4.8 quarts per acre. For each 25 gallons of spray, add a surfactant. Avoid contact of plants with spray or drift as injury may result. When tall, dense weed growth is present, remove weed growth before application. If application is made to soil free of weeds, omit the surfactant from the spray. Repeat treatment as needed, but do not apply more often than 6-week intervals nor more than a total of 9.6 quarts per acre (broadcast basis) in a 12-month period.

BLUEBERRIES, CANEBERRIES AND GOOSEBERRIES

Use only in fields which have been established for at least 1 year. Do not apply to Berries interplanted with Fruit trees. Do not apply to plants whose roots are exposed as injury may result. Apply as a band treatment at base of canes or bushes. For Spring application, apply before germination and growth of Annual weeds.

AR, FL, GA, NC, NH—Blueberries: Apply 1.2 to 1.6 quarts per acre in the Spring and repeat treatment after harvest in the Fall. For each 25 gallons of spray, add a surfactant to the spray mixture to improve control of small, emerged weeds.

IN, MI and OH—Blueberries: Apply 1.6 to 3.2 quarts per acre in late Spring. Alternatively, apply 1.6 quarts per acre in the Fall and repeat at same rate in the Spring.

IN, MI, OH—Raspberries: Apply 2.4 quarts per acre in the Spring.

MA, ME—Blueberries: Apply 1.6 quarts per acre in late Spring.

MD, NJ—Blueberries: For control of Winter annuals, apply 1.6 quarts per acre in October, November or December or a single application of 2 quarts per acre may be applied in early to mid-Spring.

CA—Raspberries, Blackberries, Boysenberries, Dewberries and Loganberries: For control of Winter annuals, apply 1.6 quarts per acre in October or November. Repeat at same rate in late Spring to control Annuals. A single application of 2.4 quarts per acre in January or February will control both Winter and Summer annuals in some areas, but the separate Fall and Spring schedule is preferred.

Western OR and Western WA—Blueberries, Caneberries and Gooseberries: For control of Winter annual weeds, apply 1.6 quarts per acre in October or November. Repeat at the same rate in late Spring to control Annuals. A single application of 2.4 quarts per acre in January or February will control both Winter and Summer annuals in some areas, but the separate Fall and Spring schedule is preferred.

CITRUS

AZ (except Yuma area) and CA (except Imperial and Coachella Valleys): Apply 2.4 to 3.2 quarts per acre shortly after grove has been laid-up in final form (no-tillage program) in late Fall or early Winter. Alternatively, apply 1.6 quarts per acre in October or November and repeat at the same rate in March or April. Subsequent annual applications of 1.6 to 2.4 quarts per acre will usually give adequate weed control.

FL: Use only as a band application. Do not use "Trunk to Trunk". East Coast/Flatwoods Areas (Low permeable soils): Do not use more than 6.4 quarts per treated acre in any one application. Do not apply more than 9.6 quarts per treated acre per year. This amount corresponds to 9.6 pounds of diuron, the active ingredient in this product. The maximum allowable use rate for diuron is 9.6 pounds per treated acre per year inclusive of all diuron formulations used within 1 year.

Ridge Areas, except Highland Co. (Highly permeable soils): Do not use more than 3.2 quarts per treated acre in any one application. Do not apply more than 6.4 quarts per treated acre per year. This amount corresponds to 6.4 pounds of diuron, the active ingredient in this product. The maximum allowable use rate for diuron is 6.4 pounds per treated acre per year inclusive of all diuron formulations used within 1 year.

Ridge Areas, Highland Co. (Highly permeable soils): Do not use more than 3.2 quarts per treated acre in any one application. Do not apply more than 4.8 quarts per treated acre per year. This amount corresponds to 4.8 pounds of diuron, the active ingredient in this product. The maximum altowable use rate for diuron is 4.8 pounds per treated acre per year inclusive of all diuron formulations used within 1 year. Do not use at less than 60-day intervals.

Puerto Rico: Make a single application of 3.2 to 6.4 quarts per acre or apply 2.4 to 3.2 quarts per acre followed by the same rate 4 to 6 months later. On bearing Citrus, apply any time when seasonal rains are expected. On non-bearing trees, apply when Winter banks are pulled down. For control of Guineagrass, Loosestrife, Maidencane, Paragrass, Primrose willow and Seamyrtle in ditches adjacent to Citrus groves, use 1 pound per 1,000 square feet (40 pounds per acre) in sufficient water (minimum 4 gallons per 1,000 square feet) to provide thorough and uniform coverage. Apply in the Spring before weed growth starts or after removal of vegetation. Repeat treatment on a spot basis to control hard-to-kill species such as Guineagrass. In bedded groves, do not treat water furrows between the beds as injury to the trees may result.

TX: Apply 1.6 to 3.2 quarts per acre for Annual weeds. Use 3.2 to 4.8 quarts per acre for control of Johnsongrass seedlings. Best results accompany application in the Spring. Well-established weeds should be eliminated by cultivation prior to treatment.

GRAPES

Apply only to established vineyards (at least 3 years old) as a band treatment to Grape rows. On soils low in clay or organic matter (1 to 2%), severe plant injury may result if heavy rainfall or more than one inch of irrigation occurs soon after treatment. This risk must be assumed by the user.

East of the Rocky Mountains: On soils low in clay or organic matter (1 to 2%), apply 1.6 to 2.4 quarts per acre. On soils high in clay or organic matter, apply 2.4 to 4.8 quarts per acre. Apply in the Spring just prior to germination of Annual weeds.

West of the Rocky Mountains: For best results, apply during the Winter months when weeds are less than 2 inches in height or dlameter. Rainfall or overhead sprinkler irrigation sufficient to wet the soil to a depth of 2 inches is necessary to activate the herbicide. Abnormally heavy rainfall following application just before Spring growth may move the herbicide into the root zone of Grapes which could result in injury.

For initial treatment, apply 2.4 to 3.2 quarts per acre; subsequent annual applications of 1.6 quarts per acre will usually give adequate weed control. Do not apply to vines with trunks less than 1.5 inches in diameter as injury may result.

NY and PA—Grasses: Use only in established vineyards (at least 4 years old) for spot control of Perennial grasses such as Orchardgrass, Quackgrass and Ryegrass. Apply in the Spring as a band treatment to ridged soil (2- to 4-inches high) under the trellis at the rate of 6.4 to 9.6 quarts per acre. Band width should not exceed 30 inches. Do not apply more than once every 4 years. Use only on heavy soils, such as Loams, Silt loams and Clay loams. Do not use in areas where Grape roots are shallow or exposed because of high bedrock, poor drainage or erosion as injury to Grapes may result.

MACADAMIA NUTS

HI: Use only under trees established in the orchard for at least 1 year. Apply 1.6 to 4.8 quarts per acre immediately after harvest, preferably before weeds emerge. If weeds have emerged, add 1 pint of a non-ionic surfactant per 25 gallons of spray. Re-treat as needed but do not exceed 8 quarts per acre per year.

OLIVES

CA: Use only under trees established in the grove for at least 1 year. Apply 1.6 quarts per acre after grove has been laid-up in final form in late October or November; repeat at same rate in March or April. Remove weed growth prior to treatment.

PAPAYAS

Use only under trees established in the orchard for at least 1 year. Apply 2 to 4 quarts per acre, preferably before weeds emerge. If weeds have emerged, for each 25 gallons of spray, add a surfactant.

PEACHES

Use this product alone or apply as a tank mixture with Sinbar.

This Product Alone: Use only under trees established in the orchard for at least 3 years. Apply 1.6 to 4 quarts per acre in the early Spring before weeds emerge or during the early seedling stage of weed growth. Do not apply within 3 months of harvest. In the Far West, do not apply within 8 months of harvest.

GA: On trees established for at least 2 years, apply 1.6 to 2.4 quarts per acre in the Spring. Repeat application in the Fall but do not exceed 4 quarts per acre per year. For each 25 gallons of spray mixture, add a surfactant to improve control of small, emerged weeds. Where crop is grown under furrow-irrigation or under raised-berm flood irrigation (trees 4 to 6 inches above waterline), apply only as a band treatment. Do not treat trees planted in the bottom of irrigation furrows nor trees grown under flat flood or basin irrigation, as injury to trees may result. Where complete weed control to harvest is desired, additional weed control measures may be required during the growing season.

This Product plus Sinbar: Use only under trees established in the orchard for at least 2 years. Apply either in the Spring or after harvest in the Fall before weeds emerge or during early seedling stage of weed growth.

	Rate per Acre			
Soil Texture	1 to 2% Organic Matter	More Than 2% Organic Matter		
	This Product (plus) Sinbar	This Product (plus) Sinbar		
Sandy loam	0.8 qt, + 1 lb.	1.2 qts. + 1.5 lbs.		
Loam, Silt loam, Silt	1.2 qts. + 1.5 lbs.	1.6 qts. + 2 lbs.		
Clay loam, Clay	1.6 qts. + 2 lbs.	1.6 qts. + 2 lbs.		

Where crop is grown under furrow-irrigation or under raised-berm flood irrigation (trees 4 to 6 inches above waterline), apply only as a band treatment. Do not treat trees planted in the bottom of irrigation furrows, nor trees grown under flat flood or basin irrigation, as injury to trees may result. Where complete weed control to harvest is desired, additional weed control measures may be required during the growing season.

PEARS

Use only under trees established in the orchard for at least 1 year. Do not treat varieties grafted on full-dwarf root stocks. Apply 3.2 quarts per acre in the Spring (March through May). In the Far West, apply 3.2 quarts per acre to weeds less than 2 inches in height or diameter under dormant trees. Alternatively, apply to small weeds at 1.6 quarts per acre post-harvest followed by 1.6 quarts per acre prior to budbreak.

PECANS

Use this product alone or apply as a tank mixture with Sinbar. Make a single band or broadcast application as a directed spray using a minimum of 30 gallons of water per acre. Apply in the Spring before weeds emerge or during the early seedling stage of growth.

	Rate per Acre		
Soil Texture	This Product Alone*		Tank Mixture This Product (plus) Sinbar**
Sandy loam	1.6 qts.	-OR-	1.2 qts. + 1.5 lbs.
Loam, Silt loam, Silt	2.4 qts.	1	1.4 qts. + 1.75 lbs.
Clay loam, Clay	3.2 qts.		1.6 qts. + 2 lbs.

^{*}Use only on trees established in the grove for at least 3 years and on soil with at least 0.5% organic matter.

NOTE: Do not use on eroded areas where subsoil or roots are exposed, nor on trees that are diseased or lacking in vigor or on trees planted in irrigation furrows as injury to the trees may result.

PINEAPPLES

HI and FL: Apply 3.2 to 5 quarts per acre as a broadcast spray just before or immediately after planting but prior to weed emergence. Use 3.2 quarts per acre after harvesting plant crop (for ration crop). For plant crop only, a second and third broadcast or interspace application may be made prior to differentiation at the rate of 1.6 quarts per acre at intervals of not less than 2 months. Additional applications to plant crop may be made as needed to interspace only using 1.6 quarts per acre. Do not apply more than 3 broadcast sprays (maximum 9.6 quarts per acre) prior to differentiation nor more than 12.8 quarts total per acre per plant crop. Treated array be planted to Pineapple or Sugarcane 1 year after last application. Puerto Ricc: Apply 3 to 5 quarts per acre as a broadcast spray just be-

Puerto Rico: Apply 3 to 5 quarts per acre as a broadcast spray just before or immediately after planting but prior to weed emergence. Application controls weeds such as Crabgrass, Crotalaria, Fall panicum, Foxtail, Goosegrass, Momingglory, Pigweed, Pursiane and Sourgrass. Treated areas may be planted to Pineapple or Sugarcane 1 year after last application.

WALNUTS (English)

CA: Use only under trees established in the orchard for at least 1 year. As an initial treatment, apply 2.4 to 4.0 quarts per acre after the orchard has been laid-up in final form (no-tillage program) in late Fall or early Winter; retreat annually with 1.6 to 2.4 quarts per acre. Alternatively, apply 1.6 quarts per acre in October or November and repeat at same rate in March or April

ORNAMENTAL CROPS (See Soil Limitations)

ORNAMENTAL BULB CROPS (Bulbous iris, Narcissus)

Western WA: Make a single application of 3.2 quarts per acre. Apply after planting, but no later than 4 weeks prior to bulb emergence (usually late September or October). Do not replant treated areas to any crop within 1 year after last application as injury to subsequent crops may result.

PLUMOSUS FERN

FL: Hand weed and mow fern, then make a single application of 2.4 quarts per acre within 3 to 5 days. Do not cultivate or disturb soil after application as crop injury may result. Treat only established stands at least 1 year old.

TREE PLANTINGS

CO, MT, ND, NE, SD, WY: Use only under established plantings (1 year or older) of American elm, Caragana, Cottonwood. Douglas fir, Green ash, Honeysuckle. Ponderosa pine, Red cedar, Russian olive and Siberian elm. Use 2 to 4 quarts per acre; apply as a band 4 feet wide in the tree row (2 feet on each side of row). For example, 1.6 ounces of this product treats 135 feet of tree row (2 feet on each side of row) at the rate of 4 quarts per acre. Apply as a directed spray in early Spring before weeds emerge and before trees leaf out. Do not apply to foliage of trees, nor under trees growing in low areas as injury to the trees may result.

Hybrid Poplar (WA Only): For control of weeds to aid in the establishment of Hybrid poplar plantings, apply 1 to 3 quarts per acre depending upon silt texture and organic matter content. Use 1 to 2 quarts per acre on Coarse textured soils and 2 to 3 quarts per acre on Medium to Fine textured soils. Do not use on Gravelly soils or on any soil having less than 0.5% organic matter as injury to trees may result. Injury may result from applications to Poplar plantings grown on Sandy soil with low organic matter with sprinkler irrigation.

When applied in a band, the application rate will be invoroportion to the area banded on a per acre basis.

Application Timing: Apply in late Winter or early Spring as a uniform broadcast spray before or after planting but prior to bud swell, or as a directed spray after bud swell.

Pre-plant: If application is made prior to planting, take precautions to prevent treated soil (usually top 1 inch) from coming into contact with roots of trees during the planting process as injury may result.

Post-plant (Broadcast): If application is made after planting, it is best to wait until rain or irrigation has settled the soil around the newly planted trees before applying this product. If trees are dormant, a broadcast application can be made.

Post-plant (Directed): If buds have started to swell, use a directed spray pattern that prevents this product from having contact with trees as injury may result. During the growing season (from bud swell to leaf drop), this product may be applied (alone or with tank mix) between tree rows with a shielded and directed spray.

^{**}Use on frees established in the grove for at least 1 year and on soil with at least 1% organic matter.

NON-CROP WEED CONTROL

This product is an effective herbicide for the control of many weeds. The degree of control and duration of effect will vary with the amount of chemical applied, soil texture, rainfall and other conditions. This product may be used as a pre-emergence treatment at any time of year, except when ground is frozen, provided adequate moisture is supplied by rainfall or artificial means to activate the herbicide. Best results are obtained if applications made to the soil are applied shortly before weed growth begins. If dense growth is present, remove tops and spray the ground. Increased contact activity on established weeds may be obtained using a surfactant. Apply as a drenching spray to actively growing weeds during warm weather when daily temperature will exceed 70°F.

Use a fixed-boom power sprayer, properly calibrated, to ensure a constant rate of application. Mix proper amount of this product into volume of water necessary to obtain uniform coverage. If surfactant is used, dilute with ten parts of water and add as last ingredient to a nearly full tank. This product must be kept in suspension at all times. Agitate by mechanical or hydraulic means in the spray tank. If bypass or return line is used, it should terminate at bottom of tank to minimize foaming. Use 50-mesh screen or larger.

General Weed Control: To control most Annual weeds for an extended period of time on non-cropland such as utility, highway, pipeline and railroad right-of-ways, petroleum tank farms, lumberyards, storage areas, industrial plant sites, around farm buildings and similar areas, apply 4 to 12 quarts per acre to control most Annual weeds including:

Br	padleaf - 4 to 12 qts. per	Acre
Ageratum Chickweed Cocklebur	Knawel Kochia Lambsquarter	Ragweed Sesbania Shepherdspurse
Com speedwell Com spurry Dayflower Dogfennel Fiddleneck (Amsinckia) Flora's paintbrush Gromwell Groundcherny, Annual Hawksbeard Horsenettle Horseweed	Marigold Mexican clover Morningglory, Annual Pennycress Pigweed Pineappleweed Pokeweed Prickly lettuce Prickly sida (Teaweed) Purslane Rabbit tobacco	Sicklepod Smartweed, Annual Sowthistle, Annual Spanishneedles Tansymustard Velvetleaf (Buttonweed) Wild buckwheat Wild lettuce Wild mustard Wild radish
G	rasses - 4 to 6 qts. per A	\cre
Barnyardgrass (Watergrass) Bluegrass, Annual Crabgrass Foxtail Kyllinga Lovegrass, Annual	Orchardgrass Peppergrass Quackgrass Rattail fescue Red sprangletop Ricegrass Ryegrass, Annual	Sandbur Seedling Johnsongrass Velvetgrass Vernalgrass, Sweet, Annual
·	6.4 to 12 qts. per Acre	
Guineagrass	Maidengrass	Pangolagrass

Irrigation and Drainage Ditches: Apply 4 to 12 quarts per acre to control most Annual weeds shown in the preceding table. Apply only when water is not in the ditch. For irrigation ditches, apply during the non-crop season and when ditch is not in use. To minimize movement of this product with irrigation water and avoid possible crop injury, it is essential that the herbicide be fixed in the soil by moisture. Apply before expected seasonal rainfall, if possible, when soil in the ditch is still moist. Following treatment, if rainfall has not totaled at least 4 inches, fill ditch with water and allow to stand for 72 hours; drain off waste and remaining water before using ditch. Do not treat any ditch area into which roots of trees or other desirable plants may extend as injury may result.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal. PESTICIDE STORAGE: Storage should be under lock and key and secure from access by unauthorized persons and children.

Storage should be in a cool, dry area away from any heat or ignition source. Avoid storage at high temperatures. Do not stack over 2 pallets high. Do not move containers from one area to another unless they are securely sealed. Keep container tightly sealed when not in use. Keep away from any puncture source. Avoid storage near water supplies, food, feed and fertilizer to avoid contamination. Store in original container only. If the contents are leaking or material is spilled, follow these steps:

- 1. Collect and place in suitable containers for disposal.
- 2 Wash area with soap and water to remove remaining pesticide.
- 3. Follow washing with clean water rinse.
- Do not allow runoff to enter sewer or contaminate water supplies.
- 5. Dispose of waste as indicated below:

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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

WARRANTY—CONDITION OF SALE

OUR RECOMMENDATIONS 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. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

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 Manufacturer and is accepted as such by the Buyer.



April 4, 2002

Document Processing Desk (NOTIF)
Office of Pesticide Programs (7504C)
U.S. Environmental Protection Agency
Rm 266A, Crystal Mall 2
1921 Jefferson Davis Hwy.
Arlington, VA 22202

Re: Submission of a Revised Label by Notification per PR Notice 98-10 DREXEL DIURON 4L (EPA Reg. No. 19713-36)

Reference is made to the above. Herewith, please find:

- 1. Completed EPA Form 8570-1.
- 2. One (1) copy of the label (36SP-0202++) with the following corrections:
 - i) Under the heading General Information, on page 2, the sentence that reads "Prevent drift of dry powder or spray to desirable plants." was corrected to read "Prevent drift of spray to desirable plants."
 - ii) On page 4 of the label, in the table with the heading 'Subsequent crops:", "Crops That May Follow Treated Corn" was corrected to read "Crops That May Follow Treated Cotton" per the 2/10/1994 EPA Stamped Accepted label.
 - iii) On page 5, under the heading 'Wheat (Winter)', the sentence "In areas where average annual.......following all planting....." was corrected to "In areas where average annual.......following fall planting......"
 - iv) On page 8, the sub-heading 'General Weeds Controlled' was changed to 'General Weed Control'

I have highlighted the changes for easy reference.

3. Certification Statement per PR Notice 98-10

If you have questions/clarification regarding this submission, I can be reached at (901) 774-4370.

Thank you.

Respectfully,

Drexel Chemical Company

Luz G Piwonka

Registration Manager

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