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2/13

NOTIFICATION

JUN 1 6 2005

June 2, 2005

### Submission of Revised Label per PR Notice 98-10 DREXEL DIURON 4L (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

Cuz Gi. Chan

LUZ G CHAN Registration Manager

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1700 Channel Avenue • Post Office Box 13327 • Memphis, Tennessee 38113-0327 Phone: (901) 774-4370 • Fax: (901) 774-4666 • E-Mail: info@drexchem.com • www.DrexChem.com

SINCE1972



3/13 NOTIFICATION JUN 1 6 2005

# Diuron 4L Herbicide

For controlling many Herbaceous weeds and Annual and Perennial grasses.

### **ACTIVE INGREDIENT:**

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Diuron:						•••	•						• •	• •	40.0%
<b>OTHER INGREDIENTS:</b>									•		• •				<u>   60.0%</u>
<b>TOTAL:</b>	••	•	• •	•	•	• •	•	•	•	• •	•	•••	• •	•••	100.0%

This product contains 4 pounds of Diuron per gallon.

KEEP OUT OF REACH OF CHILDREN CAUTION See FIRST AID Below

## SHAKE WELL BEFORE USING

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

Net Contents:

### IF SWALLOWED:

Call a poison control center or doctor immediately for treatment advice.
Have person sip a glass of water if able to swallow.

FIRST AID

 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. 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. For Information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378

### PRECAUTIONARY STATEMENTS

### Hazards to Humans and Domestic Animals

CAUTION: Causes moderate eye irritation. Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing. PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some of these materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

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

### **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 c ay 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.

Results vary with rate applied and environmental conditions; best results

Are obtained on succulent weeds growing under conditions, obst resorts 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, Filberts, Grapes, Macadamia nuts, Olives, Papayas, Peaches, Pears, Pecans, Plantains, Walnuts and certain Tree plantings.

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 growcro limit their first use to small areas. Observe all precautions and limitations on labeling of all products used in mixtures.



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, tennis courts or similar areas. Prevent drift of spray to desirable plants. Do not contaminate any body of water. Do not mix/load or use near wells including abandoned wells, drainage wells and sinkholes. Avoid storage of pesticides near well sites. Keep from contact with fertilizers, insecticides, fungicides and seeds. Thoroughly clean all traces of this product from application equipment immediately after use. Calibrate sprayers only with clean water away from well sites. 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 made of any waterproof material 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.

### SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment-and-weather-related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions. The following drift management requirements must be followed to avoid off-target drift movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed threefourths the length of the wingspan or rotor.

 Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees. Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the Aerial Drift Reduction Advisory Information, section below, IMPORTANCE OF DROPLET SIZE

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversion section of this label).

CONTROLLING DROPLET SIZE

Volume-Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.

Pressure-Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

Number Of Nozzles-Use the minimum number of nozzles that provide uniform coverage.

Nozzle Orlentation-Orienting nozzles so that the spray is released backwards, parallel to the airstream will produce larger droplets than other orientations. Significant deflection from the horizontal will reduce droplet size and increase drift potential.

Nozzle Type-Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce larger droplets than other nozzle types.

Boom Length-For some use patterns, reducing the effective boom length to less than three-fourths of the wingspan or rotor length may further reduce dnft without reducing swath width.

Application-Applications should not be made at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

### SWATHADJUSTMENT

When applications are made with a cross-wind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.).

### WIND

Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential. Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect drift.

### **TEMPERATURE AND HUMIDITY**

When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

### **TEMPERATURE INVERSIONS**

Applications should not occur during a temperature inversion, because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a connected cloud (under low wind conditions) indicates an inversion, while smoke that moves upwards and rapidly dissipates indicates good vertical air mixing.

### SENSITIVE AREAS

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, nontarget crops) is minimal (e.g. when wind is blowing away from the sensitive areas).

### **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 c	ts. per Acre			
Barnyardgrass (Watergrass) Crabginass Lambsquarters Pigweed Purstane Ragweed	Amsinckia (Fiddleneck) Annual bluegrass Annual sweet vemalgrass Annual groundcheny Annual morningglory Chickweed Com spurry Dogfenne! Foxtail Gromwell	Knawel Pennycress Rattali fesses Red JprangleUp Shephendspurse Tansynustard Velvetoress Viid buckwheat Viid lettuce Viid lettuce			
	1.6 to 4.8 qts. per Acie	· · ·			
Ageratum Anhual lovegrass Annual ryegrass Annual smartweed Annual sowthistle Com speedwell Dayflower Flora's paintbrush Hawksbeard	Horseweed Johnsongrass (Seedling) Kochia Kyllinger (Kyllinga) Marigold Mexican clover Orchardgrass Peppergrass	Pineapoleweed Pokeweed Rabbit tobacco Ricegrasa Sandour Spanishneedles Velvetleaf (Button:eed) Wild radish			

PARTIAL CONTROL					
0.8 qt. per Acre	3.2 qts. per Acre	6.4 to 8.0 qts. per Acre			
Annual morninggiory	Horsenettle	Guineagrass			
Cocklebur	Quackgrass	Maidencane			
Prickly sida (Teaweed)		Pangolagrass			
Sesbania		1			
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 a minimum of 3 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: For pre-emergence application, use sufficient spray volume and pressure to uniformly distribute the spray solution over treated soil. Pre-emergence weed control will be reduced on high organic matter soils such as peat or muck.

POST-EMERGENCE: For post-emergence application, use sufficient volume for thorough coverage of weed foliage. For selective applications and applications near sensitive crops, use low spray pressure to keep spray drift to a minimum. This product, at recommended rates, controls seedling Annual weeds such as Annual morningglory, Barnvardgrass (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 targer weeds

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

Unless otherwise 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%.

### CHEMIGATION

Apply this product only through sprinklers, including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, hand move or microsprinklers 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 DUMD.

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 Alfalfa / Grass 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 Annual weeds; 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 err.a. gir.g seedlings. Direct spray to cover the area between the rows and at the base of Artichoke plants, keeping contact with crop plants at a minimuln.

### ASPARAGUS

Apply as a band or broadcast treatmant. Do not apply to young plants during the first growing season (except ns 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 ocide and other solid low in clay or organic matter, apply 0.8 to 1.6 quarts ner 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. DO NOT SPRAY OVER THE TOP OF COTTOM PLANTS. Do not apply to sand or loamy sand soils. Do not use on soils with less than 1% organic matter as crop injury may result. Seedling disease may weaken plants and increase the possibility of injury from the use of trifluralin products 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. Do not use this product in pre-plant or pre-emergence applications where soil-applied organophosphate insecticides are used due to potential for severe cotton injury and possible stand loss. 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 products (incorporated according to directions on product label). Apply this product as a broadcast spray after beds are formed, preirrigated 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 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 Ioam, 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.			

Pre-Plant— Except AZ, CA: This product may be used for burndown of existing annual weeds and residual control of weeds prior to planting Cotton. Complete any planned tillage prior to application. Apply herbicide treatments before weeds germinate or before weed seedlings are more than 2 inches tall. If weeds are emerged prior to application, the addition of a non-ionic surfactant is recommended. Tillage following application should be avoided to prevent incorporation of the herbicide into the Cotton seed germination zone which may result in crop injury. Dragging treated soil from beds will concentrate the herbicide in middles and reduce residual weed control on the beds.

Apply this product at 0.8 to 1.6 quarts per acre from 15 to 45 days prior to anticipated planting. Refer to the table below for use rates in pre-plant applications. Do not exceed suggested use rates for individual soil textures shown in the table below. If less than the maximum rate of application for a given soil is applied pre-plant, subsequent pre-emergence applications of this product may be made. However, the total combined application rate for this product applied pre-plant and pre-emergence may not exceed the maximum suggested use rate for either application method.

	Rate Per Acre
Soil Texture	This Product Alone
Sandy toam, Loam, Silt Ioam, Silt	0.8 qt.
Sandy clay loam, Clay loam, Silty clay loam, Sandy clay	1 qt.
Silty clay, Clay	1.6 cits.

Pre-emergence application of herbicides with a similar mode of action to that of diuron following pre-plant application of this product may result in Cotton injury. When pre-plant applications of this product are followed by pre-emergence applications of herbicides with a similar mode of action, e.g., Meturon<sup>e</sup>, Cotoran<sup>e</sup> or other products containing fluometuron, the product containing fluometuron should be used at the minimum rate of application for the soil under consideration in order to reduce potential for crop injury. This is most critical where applications of this product are made less than 30 days pre-plant, on coarse textured soils and on soils low in organic matter. The risk of injury from pre-plant applications of this product is reduced where substantial rainfall (> 0.5 inches) occurs between application and planting. Read and follow any additional precautions on this product label when using this product for pre-plant weed control in Cotton.

Pre-plant Tank Mixes: When emerged weeds taller than 2 inches or weeds not listed on this label are present, this product may be tankmixed with other products labeled for pre-plant applications in Cotton, including Boa™, Glyphosate Original, Gramoxone\* Extra, Roundup\* Ultra, and Touchdown. The addition of dry spray grade ammonium sulfate at the rate of 2.0% w/w (17 pounds per 100 gallons finished spray solution) is suggested to enhance performance of this product plus glyphosate tank mixes.

**Replanting:** Only Cotton and Corn may be planted within 6 months of pre-plant applications of this product. To avoid crop injury following replanting, avoid disturbing the original bed.

**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.

This product should not be applied pre-emergence following application of the maximum rate for a given soil applied pre-plant. If less than the maximum rate is used pre-plant, additional application of this product may be made at pre-emergence. However, the total amount of this product applied pre-plant and pre-emergence must not exceed the maximum suggested use rate for either pre-plant or pre-emergence applications.

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

Soll Texture	Rate par 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.

	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. Applications may also be made in hooded/shielded sprayers.

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.

Annual Weed Problem (Up to 2 inches tall)	Rate per Acre
Cotton 6 to 8 inches	0.4 qt
Cotton 8 to 12 inches	0.6 qt,

For control of seedling Perennial grasses such as Johnsongrass and partial control of Nutsedge or when weed growth is under drought stress or over 2 inches high, add 2 to 3.5 pounds of active DSMA or 1.65 to 2 pounds active MSMA to above spray mixture. If DSMA or MSMA is used, do not apply after first bloom.

For enhanced weed control in hooded/shielded sprayer applications add MSMA or DSMA as suggested above; or Boa, Gramoxone Extra, Glyphosate Original, Roundup Ultra, or Touchdown according to label recommendations. Consult product labels for specific recommendations and precautions for hooded sprayer applications.

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 lay-by 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-emergence with this product alone or following pre-plant application of 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 -	Crops That May
Type of Application	Follow Treated Cotton
Band pre-emergence -OR- post-emergence	Any crop 4 months after last application
Band pre-emergence plus	Com, Cotton, Grain sorghums (not Sorgos or
post-emergence -OR-	Forage sorghums nor Grass sorghums) or
Broadcast pre-emergence	Soybeans the next Spring. Do not replant
(and pre-plant) -OR-	treated areas to any other crop within 1 year
Broadcast pre-emergence	after last application as Injury to subsequent
plus band post-emergence	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 appli- cation 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 where specifi**cally indicated)



Except as noted, apply only to established plantings at least 1 year old. CO, KS, NM and OK: On Sand bluestern, 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.

Eastern OR, Eastern WA: On perennial bluegrass and fescue apply 0.8 to 2.4 guarts per acre as broadcast in enough diluent to get even distribution. Apply in Spring before rapid growth of the crop begins and when the windgrass is still small (1-4 leaf). DO NOT use on coarse (sand) textured soils.

Western OR, Western WA: 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.

OR, WA: Apply in the Fall to perennial Ryegrass at the rate of 0.8 to 1.6 quarts per acre and to Tall fescue at the rate of 1.6 to 3.2 quarts per acre. Use a sufficient volume of water, a minimum of 25 gallons per acre, for thorough coverage of weed foliage. For best results, make applications at the onset of the Fall rains and before weeds have become established (typically October 1st through November 15th). Established weeds beyond the 2- to 4-leaf stage should be removed prior to treatment. Apply only to well established, vigorous stands. Do not apply to Perennial ryegrass stands less than 1 year old. Use mechanical agitation and avoid overlap of spray patterns. Weed control efficacy may be reduced in fields where ash residues have accumulated from burning straw.

Annual Ryegrass for the Creation of Rows: Apply 0.8 to 1.6 quarts per acre as a directed or shielded spray so the intended crop row area is not treated. These applications should be made where excessive populations of Annual ryegrass are anticipated to volunteer from previous crops. Applications can be made as a directed/shielded spray during seeding or after emergence of Annual ryegrass. These applications generally will occur between October 1st and January 15th. This product is most effective when applied before Annual ryegrass volunteer plants have more than 2 leaves. If larger plants are to be treated, addition of a labeled post-emergence herbicide will provide more effective control.

Adjust nozzle heights and spacing to allow the establishment of the desired row width (generally about 3 inches) and spacing (generally 9 to 12 inches). Use of low pressure nozzles, shielded nozzles or drop nozzles to reduce spray movement into the intended crop row area is recommended.

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 excosed 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 least 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 wellestablished root system before this product is properly activated by rainfall/irrigation may not be adequately controlled.

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

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 **\***+ e large areas.

### **Use 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, Orcharograss 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 purracie (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 25 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) (ID and WA Only)

Broadcast 0.4 to 1 quart of this product per acre in enough diluent 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

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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.

### PEAS, Austrian Field (Western OR)

This product is recommended for selective control of certain weeds in Austrian field peas.

Apply 1.2 to 1.6 quarts of this product per acre as a broadcast spray with air or ground equipment as soon as possible after planting but before crop emerges for control of weeds such as Annual bluegrass, Chickweed, Fiddleneck, Lambsquarter, Pigweed, Shepherdspurse and Wild mustard. Use lower rate on coarse-textured soils and higher rate on fine-textured soils.

Do not use this product on Sand, Sandy loam. Gravelly soils or exposed subsoils or on soils having less than 1% organic matter as crop injury may result. Do not replant treated area to another crop within one year of application. Crop injury may result if severe winter stress, disease or insect damage to the crop follows application.

### **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 3.0% organic matter. Do not apply to stands of mint suffering from stress due to low fertility, drought, winter injury, insects, disease or damage from other herbicides or other causes. Do not apply to snow covered or frozen ground as injury to the crop or poor weed control may result. 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 at least one year 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, as injury to subsequent crops may result. 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. 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. Application over emerged cane should be made only as directed below, without the addition of a surfactant or crop oil concentrate. To minimize chlorosis and stunting, use directed post-emergence sprays.

The addition of a detection of the energy of the energy of the second stunting, use directed post-emergence sprays. **Pre-emergence** — **FL**: For high organic scils, 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 plus surfactant as a directed spray after cane has emerged but before Panicum exceeds 2 inches in height. 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: Apply 1.6 to 4.8 quarts per acre as a broadcast spray prior to weed emergence after planting or after harvesting plant crop or ratoon crop. Sequential applications 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 spray mixture at the rate of 1 to 2 quarts pa. 100 gallons and apply as a directed spray.

Post-emergence — 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 mide as a broadcast spray over emerged cane or by directed spray inter-row

if weeds are emerged, add a surfactant to the spray pe: 100 gallons and apply as a directed spray. JU NOT SPRAY OVER TOP OF CANE.

Do not apply more than 3 treatments, nor more than 8 guerts between planting (or rationing) and harvest. Truated areas may be replanted to Pineapple or Sugarcane one year atter last application.

LA, TX: 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 late Winter. 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.



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USE 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	~	Broadcast	=	Band Rate
Row width in inches	^	Rate	-	Per Acre

### WHEAT (Winter)

Crop injury may result where severe Winter stress, disease or insect damage follows application. Winter-sensitive varieties may be less tolerant of this product than Winter-hardy varieties. 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 tail. 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 8 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, apply 3.2 quarts per acre to small weeds less than 2 inches in height or diameter under dormant trees or apply 1.6 quarts per acre as a post-harvest treatment followed by 1.6 quarts per acre prior to bud break.

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. 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 Per Acre				
	1 to 2% Organic Matter	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, Silt loam, Silt	1.2 qts. + 1.5 lbs.	1.6 qts. + 2 lbs.			
Clay loam, Clay	1.6 qts. + 2 ibs.	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 or crop 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 plus 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. Apply at 6-week intervals or longer but no more than a total of 9.6 quarts per acre (broadcast basis) in a 12-month period. Do not replant treated area to any crop within 2 years after last application as injury to subsequent crops may result. Exception: Sugarcane or Pineapple may be planted after 1 year.

### **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, MS, MO, NC, NH, SC-Blueberries: Apply 1.2 to 1.6 quarts per acre in the Spring and repeat treatment after harvest in the Fall. 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 late Spring. MA, ME-Blueberries: Apply 1.6 guarts per acre in late Spring.

MD, NJ-Blueberries: For control of Winter annuals, apply 1.6 quarts per acre in October to 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 Summer 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 Summer annuals. A single application of 2.4 quarts per acre in January or February will control both V/inter al.d Summer annuals in some areas, but the separate Fall and Spring schedule is preferred.

#### CITRUS

Time application as indicated for specific areas. However, application may be made any time of the yea, where sprinkler or flood irrigation can be timed to activate the herbicide. Established Perennial weeds require other special control procedures.

This product may be applied in Citrus in combination with Boa, and other labeled paraguat formulations, and in combination with Blyphosate Original and other labeled glyphosate formulations. Read and follow specific label instructions, precautions and restrictions on the label of the tank-mix partner when applying this product in combination with other products.

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 Fail 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): Apply from 1.6 quarts per acre to a maximum of 6.4 quarts per acre for control of Annual broadleaf weeds and Annual grasses. Addition of an approved surfactant will improve control of emerged weeds. 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.

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Ridge Areas, except Highland Co. (Highly permeable soils): Apply from 1.6 quarts per acre to a maximum of 3.2 quarts per acre for control of Annual broadleaf weeds and Annual grasses. Addition of an approved surfactant will improve control of emerged weeds. 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): Apply from 1.6 quarts per acre to a maximum of 3.2 quarts per acre for control of Annual broadleaf weeds and Annual grasses. Addition of an approved surfactant will improve control of emerged weeds. 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 allowable 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 diches 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.

### **FILBERTS (Except CA)**

This product is recommended for control of certain weeds in Filbert orchards established for at least one year.

Apply this product as a directed spray, avoiding contact on the foliage and fruit with spray or drift. Make an initial treatment of 3.2 to 4.0 quarts per acre in the late Fall or early Winter after harvest. Repeat annually with 2.4 to 3.2 quarts per acre, or apply 1.6 quarts per acre in October or November after harvest and repeat at the same rate in March or April.

Do not apply when nuts are on the ground. Do not graze livestock in treated orchards. Do not use on Light sandy soils.

If trees are planted on hillsides, the elimination of weeds and ground cover may cause excessive soil erosion. Under these conditions strip applications of this product (at proportionately lower rates) may be made near the trees or to the tree rows perpendicular to the slope.

### 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 diameter. 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 solls, 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 surfactant. 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, add a surfactant.

### PEACHES

Use this product alone or apply as a tank mixture with Sinbar. 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 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. Add 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 per Acre		
	1 to 2% Organic Matter	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, Silt loam, Silt	1.2 qts. + 1.5 ibs.	1.6 qts. + 2 lbs.	
Clay loam, Clay	1.6 qts. + 2 lbs.	1.6 qts. + 2 lbs.	

### 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 arrs. Apply in the Spring before weeds emerge or during the early seedling stage of growth.

	A Beth per Acre		
Soil Texture	This Product Alone*	: ,	Tank Mixture This Froduct (ਤੁਹਿਡ) Sinbar**
Sandy loam	1,6 qts.	-OR-	1.2 qts. + 1.5 lbs.
Loam, Silt loam, Silt	2.4 qts.		1.4 cts. + 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.

\*\*Use on trees established in the grove for at least 1 year and on soil with at least 1% 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: Apply 1.6 to 4.8 quarts per acre as a broadcast spray just before or immediately after planting but prior to weed emergence. Use 1.6 to 3.2 quarts per acre after harvesting the plant crop or ratoon crop (for first ratoon crop as well as subsequent ratoon crops) but before differentiation. For plant crop only, additional broadcast or interspace applications 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 9.6 quarts per acre nor more than 12.8 quarts total per acre per plant crop. Treated areas may be planted to Pineapple or Sugarcane 1 year after last application.

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 areas may be planted to Pineapple or Sugarcane 1 year after last application.

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, Morningglory, Pigweed, Purslane and Sourgrass. Treated areas may be planted to Pineapple or Sugarcane 1 year after last application.

### WALNUTS (English)

CA, OR, WA: 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; re-treat 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. Do not use on Sand, Loamy sand. Gravelly soils or exposed sub-soils, nor where organic matter is less than 1%. Do not graze livestock in treated orchards and groves.

### 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 (ID, OR, WA Only): For control of weeds to aid in the establishment of Hybrid poplar plantings, apply 0.8 to 2.4 quarts per acre depending upon silt texture and organic matter content. Use 0.8 to 1.6 quarts per acre on Coarse textured soils and 1.6 to 2.4 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 tow organic matter with sprinkler irrigation.

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

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. Apply before weeds emerge or after emergence while weeds are small. Some rainfall or water is necessary to move this product into the weed root zone before weeds become well established. If weeds are present at time of treatment, add a surfactant at 1 to 2 quarts per 100 gallons of spray solution.

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.

This product can be tank-mixed with a glyphosate herbicide (Roundup Pro Herbicide, Roundup Original Herbicide or Glyphosate Original Herbicide) pre-plant and as a directed spray to broaden the spectrum of weeds controlled and improve post-emergence activity. Use 0.8 to 2.4 quarts of this product plus glyphosate herbicide (according to label recommendations) depending upon soil type and weeds to be controlled. Note: There are several formulations of glyphosate herbicide. Check the glyphosate herbicide label to verify that the intended use as a pre-plant or post-directed spray on hybrid poplar plantations is allowed. Avoid contact of glyphosate herbicide with foliage, green stems, trees or other desirable vegetation because severe damage or destruction may result.

### **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 Annual weeds including:

Broadleaf - 4 to 12 qts. per Acre					
Ageratum Chickweed Cocklebur Com speedwell Com spurny Dayflower Dogfennel Fiddleneck (Amsinckia) Filora's paintbrush Gromwell Groundcherry, Annual Hawksbeard Horsenettle Horseweed	Knawel Kochia Lambsquarter Marigold Mexican clover Morningglory, Annual Pennycress Pigweed Pineappleweed Pineappleweed Prickly lettuce Prickly sida (Teaweed) Purstane Rabbit tobacco	Ragweed Sesbania Shepherdspurse Sicklepod Smartweed, Annual Sowthistle, Annual Spanishneedles Tansymustard Velvetleaf (Buttonweed) Wild buckwheat Wild lettuce Wild imustard Wild radish			
Grasses - 4 to 6.4 qts. per Acre					
Barnyardgrass (Watergrass) Bluegrass, Annual Crabgrass Foxtail Kyllinga Lovegrass, Annual	Orchardgrass Peppergrass Quackgrass Rattail fescue Red sprangletop Ricegrass Ryegrass, Annual	Sandbur Seedling Johnsongrass Vehetgrass Vematgrass, 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. Minimize movement of this product with irrigation. wale: to avoid crop injury. The herbicide must 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; orain off any waste water remaining before using ditch. Do not troat 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-CONDITIONS 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.

Boa is a trademark of Griffin L.L.C.. Cotoran is a trademark of Makhleshim Agan, North America. Gramoxone and Touchdown are trademarks of Zeneca Company. Roundup is a trademark of Monsanto Company. Sinbar is a trademark of E.I. dupont de Nemours & Co.



### **Drexel Chemical Company**

June 2, 2005

Document Processing Desk (NOTIF) Office of Pesticide Programs (7504C) U.S. Environmental Protection Agency 1801 Bell Street Arlington, VA 22202

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

Herewith:

- 1. Completed EPA Form 8570-1
- 2. One (1) copy of the label (36SP-0605) with the following revision:

On page 3, "Chemigation (Except CA)" was revised to simply read "Chemigation". The above product is registered for use in California.

Also, 'microsprinklers" was added to the type of irrigation systems whereby this product can be used.

The addition of 'microsprinkler' on the label by Notification is in line with PR Notice 98-10 as we believe it meets the following criteria set by PR Notice 98-10 to permit this action: 1) the application results in no greater than exposure from the currently registered method(s) 2) the new application method results in no change in dosage, concentration, timing or frequency of application of the product; and 3) the product is not registered for public health related uses or termiticides.

3. Certification statement

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

Respectfully yours, FOR DREXEL CHEMICAL COMPANY

Thank you.

Luz<sup>(</sup>G Chan Registration Manager