



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

FEB 10 1994

BARBARA BROWN
DREXEL CHEMICAL COMPANY
BOX 9306
MEMPHIS, TN 38109

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 8/23/93 Response to PR Notice 93-7
EPA Reg. No. 19713-274
DIURON 80W

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber


Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,


Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division

Barbara Brown
DREXEL CHEMICAL CO
BOX 9306
MEMPHIS TN 38109

Comment for: EPA Reg Nr.19713-274
IDA, INC. DIURON 80W

The following specific comments pertain to your WPS labeling submission concerning the product cited above:

The bodywear requirement for "applicators and other handlers" in the "Personal Protective Equipment" section on your proposed labeling is missing or incorrect. Remove the incorrect requirement (if any) and add "Long-sleeved shirt and long pants." The exact location is shown in Sections A and B on Part I of the Product Worksheet in Supplement Three-A to PR Notice 93-7.

Remove the statement "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." from its current position within the Agricultural Use Box and place it above the Agricultural Use Box.

The following statement on your proposed label is not required for this product: "Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas." Delete it from the Agricultural Use Requirements box.

Delete the crossed-out statements on your proposed label. They are redundant statements or phrases.

Correct the typographical errors circled on your proposed label.

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DREXEL

DIURON 80
HERBICIDE

WEED KILLER
For Controlling Weed Seedlings and Grasses

ACTIVE INGREDIENT:

Diuron (3-(3, 4-Dichlorophenyl)-1, 1-dimethylurea).....	80.0%
INERT INGREDIENTS:.....	20.0%
TOTAL.....	100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

READ ENTIRE LABEL BEFORE USING THIS PRODUCT

EPA Reg. No. 19713-274
EPA Est. No.

Net Contents:

8/26/92
WPS Deletions/Revisions 6/93
CORRECTIONS 8/18/93

ACCEPTED
with COMMENTS
In EPA Letter Dated

Manufactured By:
Drexel Chemical Company
P.O. Box 9306
Memphis, TENN 38109-0306

FEB 10 1994
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
19713-274

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention.

IF ON SKIN: Immediately remove contaminated clothing, INCLUDING SHOES, and wash skin with soap and plenty of water. If irritation develops, send for a physician.

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PRECAUTIONARY STATEMENTS**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION: Causes eye and skin irritation. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling and before eating or smoking. Remove and wash contaminated clothing before reuse. Harmful if swallowed. Avoid inhalation of dust and contamination of food and feed.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons.

The area being treated must be vacated by unprotected persons.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

Coveralls

Waterproof gloves

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

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

For terrestrial uses, 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 by cleaning of equipment or disposal of wastes. Do not apply when weather conditions favor drift from areas treated.

FARMWORKER SAFETY STATEMENTS

DO NOT enter treated areas without protective clothing until sprays have dried.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to farmworkers performing hand labor operations who are expected to be in a treated area or an area about to be treated with this product.

Oral warnings must inform workers of areas or fields that may not be entered without specific protective clothing until sprays have dried and appropriate actions to take in case of accidental exposure as described under the PRECAUTIONARY STATEMENTS section of this label.

When oral warnings are given, warnings shall be given in a language customarily understood by the workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. **CAUTION**—Area treated with Diuron on date of application: Do not enter without appropriate protective clothing.

until sprays have dried. In case of accidental exposure --- flush eyes and skin with plenty of water. Call physician if irritation persists. Remove and wash contaminated clothing before reuse.

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 dry powder or 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 Diuron 80 Herbicide 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).

GENERAL INFORMATION

Diuron 80 Herbicide is a wettable powder to be mixed in water and applied as a spray for selective control of weeds in certain crops and for nonselective weed control on noncropland areas. It is noncorrosive to equipment, nonflammable and nonvolatile.

Diuron 80 Herbicide 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.

Diuron 80 Herbicide applied preemergence, 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, Diuron 80 Herbicide continues to control weeds for sometime as the crop becomes better able to compete. Should weed seedlings begin to break through the preemergence treatment in significant numbers, secondary weed control procedures should be implemented: these include cultivation and postemergence herbicide application.

Diuron 80 Herbicide 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 surfactant such as Drexel Surf Ac S20 to the spray (where recommended) increases contact effects of Diuron 80 Herbicide.



Diuron 80 Herbicide may be used as a directed postemergence application, where spray nozzles are adjusted so that weeds are sprayed but the crop is not on the following crops: artichoke, corn (field), cotton, sorghum (grain), sugarcane, and established plantings of apples, bananas, plantains, blueberries, caneberries, gooseberries, citrus, grapes, macadamia nuts, olives, papayas, peaches, pears, pecans, walnuts and certain tree plantings.

Under specified conditions (see Directions for Use), Diuron 80 Herbicide without surfactant may be applied over the top of alfalfa (established, dormant or semidormant), asparagus (established), birds-foot trefoil (established dormant), grass seed crops (established), oats, red clover (established, dormant), sugarcane, wheat, pineapple and plumosus fern (established, mowed).

Weed species vary in susceptibility to Diuron 80 Herbicide and they may be more difficult to control when under stress. Combinations of Diuron 80 Herbicide with other herbicides (as registered) increase the number of species controlled; consult labels of the companion product for this and other information.

Since the effect of Diuron 80 Herbicide varies with soils, uniformity of application, and environmental conditions, it is suggested that growers limit their first use to small areas. Observe all cautions and limitations on labeling of all products used in mixtures.

DIRECTIONS FOR USE

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

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulations.

AGRICULTURAL USE REQUIREMENTS

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

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.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soils or water is:

Coveralls

Waterproof gloves

Shoes plus socks

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

Diuron 80 Herbicide should be used only in accordance with recommendations on this label, or in separate published Drexel recommendations available through local dealers.

Do not use in Kern County, CA except for noncropland and citrus weed control.

PREEMERGENCE USE (Germinating Weeds): Diuron 80 Herbicide, at recommended rates, controls annual weeds such as:

Broadleaves		
<u>3/4 to 1 lb./Acre</u>	<u>1 1/2 to 2 lbs./Acre</u>	<u>2 to 6 lbs./Acre</u>
Lambsquarters	Annual groundcherry	Ageratum
Pigweed	Annual morningglory	Annual smartweed
Purslane	Chickweed	Annual sowthistle
Ragweed	Corn spurry	Corn speedwell
	Dogfennel	Dayflower
	Fiddleneck	Flora's paintbrush
	(amsinckia)	Hawksbeard
	Gromwell	Horseweed
	Knawel	Kochia
	Pennycress	Marigold
	Shepherdspurse	Mexican clover
	Tansy-mustard	Pineappleweed
	Wild buckwheat	Pokeweed
	Wild lettuce	Rabbit tobacco
	Wild mustard	Spanishneedles
		Velvetleaf (buttonweed)
		Wild radish

Grasses		
<u>3/4 to 1 lb./Acre</u>	<u>1 1/2 to 2 lbs./Acre</u>	<u>2 to 6 lbs./Acre</u>
Barnyardgrass	Annual bluegrass	Annual lovegrass
(Watergrass)	Annual sweet	Annual ryegrass
Crabgrass	vernalgrass	Kyllinga
	Foxtail	Orchardgrass
	Rattailfescue	Peppergrass
	Red sprangle top	Ricegrass
	Velvetgrass	Sandbur
		Seedling Johnsongrass

Partial control of the following weeds usually occurs at rates stated:

Broadleaves	
<u>1 lb./Acre</u>	<u>4 lbs./Acre</u>
Annual morningglory	Horsenettle
Cocklebur	
Prickly sida (teaweed)	
Sesbania	
Sicklepod	

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Grasses

4 lbs./Acre	8 to 10 lbs./Acre
Quackgrass	Guineagrass Maidencane Pangolagrass

POSTEMERGENCE USE (Emerged Seedling Weeds): Diuron 80 Herbicide at recommended rates. controls annual weeds such as annual morningglory. barnyardgrass (watergrass). crabgrass. crowfoot. goosegrass, pigweed and purslane. Addition of Surf Ac 820 to the spray (where recommended) increases contact effects of Diuron 80 Herbicide. Best results are obtained on succulent weeds growing under conditions of high humidity and temperatures of 70 F or higher.

EQUIPMENT - SPRAY VOLUMES AND PRESSURES: Use a boom power sprayer properly calibrated to a constant speed and rate of delivery. Openings in screens should be equal to or larger than 50 mesh. Continuous agitation in the spray tank is required to keep the material in suspension. Agitate by mechanical or hydraulic means: if by pass or return line is used. it should terminate at bottom of tank to minimize foaming. Avoid overlapping. and shut off spray booms while starting. turning. slowing or stopping. or injury to the crop may result.

For preemergence application. use 25 to 40 gals. per acre and spray pressure of 30 to 40 psi.
 For postemergence application. use sufficient volume (min. 25 gals per acre) for thorough coverage of weed foliage; use spray pressure of 20 to 25 psi to keep spray drift to a minimum.

Aerial: For alfalfa, asparagus, barley (winter), cotton (pre-plant or preemergence only), grass seed crops, pineapple, sugarcane and wheat (winter), application may be made by aircraft (5 to 10 gals. 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.

SPRAY PREPARATION: Mix proper amount of Diuron 80 Herbicide into necessary volume of water: where use of Surf Ac 820 is recommended. dilute with 10 parts of water and add as last ingredient to nearly full tank.

USE RATES: All dosages of Diuron 80 Herbicide are expressed as broadcast rates: for band treatment. use proportionately less. For example. use 1/3 of the broadcast rate when treating a 14" band where row spacing is 42". 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 postemergence application. use the lower rate on smaller weeds and the higher rate on larger weeds.

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

Unless otherwise directed, do not use on sand, loamy sand, gravelly soils or exposed subsoils; nor on pecans where organic matter is less than 1/2%; nor on alfalfa, apples, artichoke, barley (winter), bermudagrass pasture, citrus, cotton, grapes, oats, olives, papayas, peaches, pears, plumosus fern, sorghum, sugarcane, walnuts and wheat (winter) 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%.

Preemergence weed control will be reduced on high organic matter soils (greater than 5%, such as peat or muck).

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.

FIELD CROPS

(See Soil Limitations)

A good seedbed must be prepared before preemergence use of Diuron 80 Herbicide 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 Diuron 80 Herbicide 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 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), alkali spots; nor to flooded fields as crop injury may result. Do not spray on snow-covered or frozen ground.

Idaho, Oregon, Washington: Use 1 1/2 to 3 lbs. per acre; for control of volunteer alfalfa, use 4 lbs. per acre. Apply in fall after alfalfa becomes dormant but not later than mid-December.

California (Dormant and Semi-Dormant Varieties): use 1 1/2 to 3 lbs. per acre; for control of volunteer alfalfa, use 4 lbs. 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" in height or diameter). Control of established weeds is improved by applying Diuron 80 Herbicide with a suitable contact herbicide registered for such use.

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Sufficient rainfall for soil activation of Diuron 80 Herbicide is unlikely in California after February 1. Treated areas may be replanted to any crop after one year from last application if rate does not exceed 2 lbs. per acre.

Arizona, Nevada: Use 1 1/2 to 3 lbs. per acre; apply in fall after alfalfa becomes dormant but no later than January.

Eastern Colorado, Kansas: For control of tansymustard, apply 1 lb. per acre shortly after emergence of mustard in the fall or winter; use 2 lbs. per acre if weeds are 2" to 4" in height. Alternatively if other annual weeds are present, apply 2 to 3 lbs. per acre in February or March.

Other Areas Where Alfalfa Becomes Winter Dormant: Use 1 1/2 to 3 lbs. per acre (1 1/2 to 2 lbs. per acre East of Appalachian Mountains). Apply in March or early April, but before spring growth begins.

ARTICHOKE - California: Apply 2 to 4 lbs. 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. Preemergence weed control will be reduced on high organic matter soils (greater than 5%).

Established Plantings: On light sandy soils and other soils low in clay or organic matter, apply 1 to 2 lbs. per acre. On soils high in clay or organic matter use 2 to 4 lbs. 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 3 lbs. per acre per application. In Washington (irrigated crop), apply a single treatment of 4 lbs. per acre. If treatment is delayed until late winter or early spring, incorporation of the chemical in the top 1" to 2" of soil may substitute for lack of rain to activate the herbicide.

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Newly Planted Crowns - California (San Joaquin Delta): Make a single application of 2 to 4 lbs. 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".

BARLEY. WINTER (Drill - Planted) - Western Oregon and Western Washington: Make a single application of 1 1/2 to 2 lbs. 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 1 to 3 lbs. after planting and before emergence of bermudagrass or weeds. Alternatively, for control of emerged annual weeds up to 4" in height apply 1/2 to 1 lb. per acre; add 1 pt. Surf Ac 820 per 25 gals of spray. If bermudagrass has emerged at time of treatment, temporary burn of exposed plant parts may occur.

Plant sprigs (stolons) 2" deep in a well-prepared seedbed; do not treat areas where sprigs are planted less than 2" 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 Oregon: Treat only stands established for at least 1 year; do not apply to seedling trefoil as injury may result. Make a single application of 2 lbs. 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):

Postemergence - Make a single application of 3/4 lbs. per acre in combination with nonpressure nitrogen solution. If nitrogen solution is not used, apply 1 lb. per acre; add 1 pt. Surf Ac 820 per 25 gals. of spray. Apply as a directed spray when corn is at least 20" high and weeds are no taller than 3". DO NOT APPLY OVER TOP OF CORN. Do not replant to any crop within 1 year except that cotton, corn and grain sorghum may be planted the spring following treatment.

Preemergence - Arkansas, Louisiana, Mississippi and Tennessee: Make a single application of 2/3 of 1 lb. per acre as a broadcast or band treatment after planting but before corn emerges. Plant corn at least 1 1/2" 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.

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COTTON: During a single crop season, do not exceed the following amounts of Diuron 80 Herbicide per acre as injury to subsequent crops may result: 1 lb. on loamy sand: 1 1/2 lbs. on sandy loam: 2 lbs. on clay loam: 2 3/4 lbs. on clay. Injury may occur if Diuron 80 Herbicide is used in conjunction with soil-applied organic phosphate pesticides. Do not allow livestock to graze treated cotton.

Preplant - Arizona and California: Use Diuron 80 Herbicide alone, or apply as a separate operation following preplant broadcast treatment with Trifluralin EC (incorporated according to directions on Trifluralin EC label). Apply Diuron 80 Herbicide 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 Diuron 80 Herbicide. 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:

Diuron 80 Herbicide Alone: 1 to 1 1/2 lbs. per acre.
 Diuron 80 Herbicide Following Trifluralin EC:

Soil Texture	Product Per Acre Trifluralin EC	Preplant Diuron 80 Herbicide
Sandy loam, loam, silt loam, silt	1 pt	2/3 to 1 lb.
Sandy clay loam, clay loam, silty clay loam, sandy clay, clay	1 1/2 pts	1 to 1 1/4 lbs

Note: Seedling disease may weaken plants and increase the possibility of injury from the use of Trifluralin EC followed by Diuron 80 Herbicide. 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.

Preemergence - U.S., except Arizona, California, and areas west of Interstate 35 or 35W in Texas and Oklahoma: Use Diuron alone or apply as a separate operation following preplant treatment with Trifluralin EC. Apply Diuron 80 Herbicide 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 1/4") 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 postemergence treatments. If moisture is insufficient to activate Diuron 80 Herbicide or if soil becomes crusted before crop emerges, a shallow rotary hoeing (no deeper than 1/4") should be made before weeds become established.

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Diuron 80 Herbicide Alone: Make a single application as a broadcast or band spray using the following broadcast rates: for band treatment, use proportionately less.

Soil Texture**	Lbs. Diuron 80 Herbicide Per Acre
Loamy sand	2/3
Sandy loam, loam, silt loam, silt Sandy clay loam, clay loam, silty	1
clay loam, sandy clay	1 1/4
Silty clay, clay	2

** Do not use on soils with less than 1% organic matter as crop injury may result.

Diuron 80 Herbicide Following Trifluralin EC Preplant: 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 Diuron 80 Herbicide as a band treatment, use proportionately less. See "Note" under Preplant above.

Soil Texture	Product Per Acre	
	Preplant Trifluralin EC	Preemergence Diuron 80 Herbicide
Loamy sand	1/2 pt.	2/3 lb.
Sandy loam, loam, silt loam, silt	1 pt.	1 lb.
Sandy clay loam, clay loam, silty clay loam, sandy clay, silty clay, clay	1 1/2 pts	1 1/4 to 2 lbs.

**Do not use on soils with less than 1% organic matter as crop injury may result.

Postemergence - U.S.: 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" tall and when weeds are actively growing and do not exceed 2" in height. Apply as a band treatment at following rates: for each 25 gals. of spray, add 1 pt. Surf Ac 820. Two applications may be made if needed.

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Weed Problem (Up to 2" tall)	Lbs. Diuron 80 Herbicide Per Acre (Broadcast Basis)
Annual grasses	1/2
Pigweed	1/4

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" add 1.5 to 2.5 pints of Drexel DSMA Slurry to above spray mixture. If Drexel DSMA Slurry is used, do not apply after first bloom.

Late Season (Lay-By) - Apply 1 to 1 1/2 lbs. per acre (1 to 2 lbs. in Arizona and California) when cotton is at least 12" tall (at least 20" 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 emerged annual weeds (up to 4" in height) at lay-by time, make a single application in combination with Surf Ac 820 (1 pt. per 25 gals. spray). or use 1/2 to 3/4 lb. Diuron 80 Herbicide (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 preplant or preemergence with Diuron 80 Herbicide, 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" deep. Do not retreat field with a second preplant or preemergence application during the same crop year as injury to the crop may result.

Subsequent crops:

Diuron 80 Herbicide-Type of Application	Crops That May Follow Treated Cotton
Band preemergence plus postemergence	Any crop 4 months after last application

<p>Band preemergence plus postemergence -or- Broadcast preemergence (and preplant) -or- Broadcast preemergence plus band postemergence</p>	<p>Cotton, soybeans, corn or grain sorghums (not sorghos or forage sorghums nor grass sorghums) the next spring. Do not replant treated areas to any other crop within one year after last application as injury to subsequent crops may result.</p>
<p>Broadcast postemergence (lay-by)</p>	<p>Cotton, corn, grain sorghums (not sorghos or forage sorghums nor grass sorghums) the next spring. Do not replant treated areas to any other crop within one year after last application as injury to subsequent crops may result.</p>

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

GRASS SEED CROPS (perennial): Except as noted, apply only to established planting at least 1 year old.

Colorado, Kansas, New Mexico and Oklahoma: On sand bluestem, side oats grama and switchgrass, apply 2 to 3 lbs. 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 3 lbs. per acre; spread unburned chaff or straw with a harrow or chopper before application.

Western Oregon: On alta fescue, Astoria bentgrass, Highland bentgrass, Kentucky bluegrass (Merion bluegrass) and orchardgrass, apply 2 to 4 lbs. per acre between October 1 and November 15. In fields where ash residues have accumulated from burning straw, use 3 to 4 lbs. per acre; spread unburned chaff or straw with a harrow or chopper before application. If perennial velvetgrass (*Holcus Lanatus*) is a problem, use 4 lbs. 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 2 lbs. per acre.

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Oregon, Idaho & Washington: For use in newly planted bentgrass, chewing fescue, Kentucky bluegrass, perennial ryegrass, orchardgrass and tall fescue. During planting operation, spray Aqua Nu-Chartt+ or Gro-Safe++ or other suitable brands of activated charcoal as a 1" band on soil surface at rate of 300 lbs. per acre (broadcast basis; equivalent to 15 lbs. per acre of crop when row spacing is 20"). Mount nozzles to apply directly over seed rows to prevent crop injury. Follow with Diuron 80 Herbicide as a single broadcast spray at rate of 2 1/2 to 3 lbs. 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.

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OATS (Drill-Planted): Do not replant treated areas to any crop within one year after last application as injury to subsequent crops may result. Spring Oats - Idaho, Eastern Oregon, eastern Washington: Use in areas where average annual rainfall exceeds 16". Make a single application of 1 to 1 1/2 lbs. 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" tall.

Winter Oats and Mixtures with Peas or Vetch - Western Oregon and Western Washington: Make a single application of 1 1/2 to 2 lbs. per acre as soon as possible after planting but before emergence of the crop.

PEPPERMINT - Pacific Northwest: Apply 3 lbs. per acre just after the last cultivation in the spring prior to emergence of peppermint. Do not apply to newly planted (less than 1 year) nor to emerged peppermint as injury may result.

RED CLOVER - Western Oregon: Make a single application of two pounds per acre on established red clover stands (at least 9 months). Apply Diuron 80 Herbicide 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, rye grass, and velvet grass.

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SORGHUM (GRAIN) - Southwestern States: Apply 1/4 to 1/2 lb. per acre: add 1 pt. Surf Ac 820 per 25 gls. of spray. Apply as a directed postemergence broadcast or band spray after sorghum is 15" tall to control weeds 2" to 4" in height. DO NOT SPRAY OVER TOP OF SORGHUM. Use the lower rate on broadleaved weeds up to 2" tall: use the higher rate on grasses up to 2" and broadleaved weeds up to 4" 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 1/2 lb. per acre. Treatment of weeds under drought stress is usually ineffective.

Do not replant treated areas to crops other than cotton or corn 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 Diuron 80 Herbicide 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, used directed postemergence sprays.

Florida Preemergence - For high organic soils, apply 2 to 4 lbs. per acre as a broadcast or band spray prior to weed emergence after planting or after harvesting plant crop (for ratoon crop).

Postemergence - Make 1 or 2 applications of 2 lbs. per acre as needed by directed spray inter-row. Alternatively, for panicum control, make up to 3 applications of 1/2 to 1 lb. per acre as a directed spray after cane has emerged but before panicum exceeds 2" in height: add 1 qt. Surf Ac 820 per 100 gals. 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 6 lbs. total per acre between planting (or ratooning) and harvest.

Hawaii and Puerto Rico: Apply 4 to 8 lbs. per acre as a broadcast spray prior to weed emergence after planting or after harvesting plant crop (for ratoon crop). A second and third application of 2 to 4 lbs. 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 (such as Surf Ac 820) to the spray at the rate of 1 to 2 qts. per 100 gals. and apply as a directed spray. DO NOT SPRAY OVER TOP OF CANE.

Do not apply more than 3 treatments nor more than 10 lbs. (Puerto Rico) or 12 lbs. (Hawaii) total per acre between planting (or ratooning) and harvest. Treated areas may be planted to sugarcane or pineapple one year after last application.

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Louisiana: Use on plant cane seeded on fallowing ground. Make a single application of 3 to 3 3/4 lbs. per acre at either of the following times. Fall Treatment (August through October) - Treat a 2 ft. band over the row after planting of cane, but before weeds or cane emerge. Spring Treatment (January through April) - if shaving and off-barring are practiced, treat a 2 ft. band over the row before weeds or cane emerge.

WHEAT. WINTER (Drill - Planted): Crop injury may result where severe winter stress, disease or insect damage follows application: winter - sensitive varieties such as McDermid and Hyslop may be less tolerant of Diuron 80 Herbicide 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 low in organic matter (less than 1%). nor on thinly covered or exposed subsoil areas (clay knobs); do not treat wheat planted less than 1" 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. Check with your county agent or state extension specialist before using Diuron 80 Herbicide in combination 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.

Idaho, Oregon and Washington - East of Cascade Range: Areas Where Average Annual Rainfall Exceeds 16 inches: Make a single application of 1 to 1 1/2 lbs. 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" 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" tall. Application later than May 1 may give poor results.

Alternatively, make a single application of 1/2 to 1 lb. Diuron 80 Herbicide plus 1/4 lb. 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" tall or across.

Areas Where Average Annual Rainfall is 10 to 16 inches: After wheat is planted in the fall, make a single application of 1 to 1 1/2 lbs. per acre when sufficient moisture is available to germinate wheat seed. Apply before soil freezes and before weeds are 2" tall. Application later than March 1 may give poor results.

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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" prior to planting. Do not retreat field with a second application during the same crop year as injury to the crop may result.

Oregon and Washington - West of Cascade Range: Make a single application of 1 1/2 to 2 lbs. per acre as soon as possible after planting; if wheat and weeds have emerged, apply before weeds are 3" to 4" tall. Alternatively, apply a tank mixture of Diuron 80 Herbicide plus bromoxynil as detailed above for "East of Cascade Range".

Other Areas: Make a single application in the spring as soon as wheat (fall-planted) starts to grow and before weeds are 2" tall. Application later than May 1 may give poor results.

Central Plains and Midwest: Use 1 to 2 lbs. per acre.

Kansas, Oklahoma and Texas: Do not use on sand or sandy loam soils. Use 1 lb. per acre on silt and silt loam soils and 1 1/2 to 2 lbs. per acre on clay, clay loam, and silty clay loam soils.

Northeast: Use 1 to 1 1/2 lbs. 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 Diuron 80 Herbicide Alone, or Apply As A Tank Mixture With Sinbar - Use only under trees established in the orchard for at least 1 year; do not treat varieties grafted on full-dwarf root stocks. Apply 4 lbs. per acre in the spring (March through May). In the Far West, treatment may be made in winter (December through February), or apply 2 lbs. per acre as a postharvest treatment followed by 2 lbs. in the spring.

Diuron 80 Herbicide 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.

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Soil Texture	Lbs. Product Per Acre					
	1 to 2% Organic Matter Diuron 80 Herbicide plus Sinbar			More Than 2% Organic Matter Diuron 80 Herbicide plus Sinbar		
Sandy loam	1	+	1	1 1/2	+	1 1/2
Loam. silt loam. silt	1 1/2	+	1 1/2	2	+	2
Clay loam. clay	2	+	2	2	+	2

Where crop is grown under furrow irrigation or under raised-berm flood irrigation (trees 4" to 6" 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.

Georgia - Apply 2 to 3 lbs. per acre in the spring. Repeat application in the fall but do not use more than 4 lbs. per acre per year. Add Surf Ac 820 at 1 pint per 25 gals. spray mixture to improve control of small, emerged weeds.

Bananas and Plantains - New Plantings: To control annual weeds. Apply 1 1/2 to 3 lbs. 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 3 to 6 lbs. per acre plus 1 pint Surf Ac 820 (or suitable equivalent) per 25 gals. of spray; 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 12 lbs. per acre (broadcast basis) in a 12-month period.

Note: Do not replant treated areas to any crop within 2 years after last application as injury to subsequent crops may result, except that sugarcane or pineapple may be planted one year after last application.

BLUEBERRIES, CANEBERRIES AND GOOSEBERRIES: Use only in fields which have been established for at least 1 year. 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.



Georgia - Blueberries: Apply 1 1/2 to 2 lbs. per acre in the spring and repeat treatment after harvest in the fall. Add Surf Ac S20 at 1 pint per 25 gals. spray mixture to improve control of small, emerged weeds.

Indiana, Michigan and Ohio - Blueberries: Apply 2 to 4 lbs. per acre in late spring; alternatively, apply 2 lbs. per acre in the fall and repeat at same rate in the spring.

Raspberries: Apply 3 lbs. per acre in the spring.

Massachusetts - Blueberries: Apply 2 lbs. per acre in late spring.

New Jersey Blueberries: For control of winter annuals, apply 2 lbs. per acre in October, November or December, or a single application of 2 1/2 lbs. per acre may be applied in early to mid spring.

California - Raspberries, Blackberries, Boysenberries, Dewberries and Loganberries: For control of winter annuals, apply 2 lbs. per acre in October or November; repeat at same rate in late spring to control summer annuals. A single application of 3 lbs. 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 Oregon and Western Washington - Blueberries, Caneberries and Gocseberries: Use same schedule as recommended for California.

CITRUS: Use only under trees established in the grove for at least 1 year. Time application as indicated for specific areas, except application may be made any time of the year where sprinkler or flood irrigation can be timed to activate the herbicide. Established perennial weeds require other special control procedures. Do not apply under citrus trees that have been subjected to freezing within 6 months.

Arizona (except Yuma area) and California (except Imperial and Coachella Valleys): Apply 3 to 4 lbs. per acre shortly after grove has been laid-up in final form (nontillage program) in late fall or early winter. Alternatively, apply 2 lbs. per acre in October or November and repeat at the same rate in March or April. Subsequent annual applications of 2 to 3 lbs. per acre will usually give adequate weed control.

Florida and Puerto Rico: Make a single application of 4 to 8 lbs. per acre or apply 3 to 4 lbs. per acre followed by the same rate 4 to 6 months later. On bearing citrus, apply any time when seasonal rains are expected; on nonbearing trees, apply when winter banks are pulled down.

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For control of guineagrass, loosestrife, maidencane, paragrass, primrose willow and seamyrtle in ditches adjacent of citrus groves, use 1 lb. per 1000 sq. ft. (40 lbs. per acre) in sufficient water (min. 4 gals per 1000 sq. ft.) 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.

Texas: Apply 2 to 4 lbs. per acre for annual weeds; use 4 to 6 lbs. 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 2 to 3 lbs. per acre; on soils high in clay or organic matter, apply 3 to 6 lbs. per acre. Apply in the spring just prior to germination and growth of annual weeds.

West of the Rocky Mountains: Apply in November, December or January. For initial treatment, apply 3 to 4 lbs. per acre; subsequent annual applications of 2 lbs. per acre will usually give adequate weed control. Do not apply to vines with trunks less than 1 1/2" in diameter as injury may result.

New York and Pennsylvania - Perennial 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" high) under the trellis at the rate of 8 to 12 lbs. per acre. Band width should not exceed 30". Do not apply more than once every 4 years. Use only on heavy soils such as loams, silt loams, 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 - Hawaii: Use only under trees established in the orchard for at least 1 year. Apply 2 to 6 lbs. per acre immediately after harvest preferably before weeds emerge; if weeds have emerged, add 1 pint Surf Ac 820 per 25 gals. of spray. Retreat as needed but do not exceed 10 lbs. per acre per year.

OLIVES - California: Use only under trees established in the grove for at least 1 year. Apply 2 lbs. 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.

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PAPAYAS: Use only under trees established in the orchard for at least 1 year. Apply 2 1/2 to 5 lbs. pr acre, preferably before weeds emerge; if weeds have emerged, add 1 pint Surf Ac 820 per 25 gals. of spray.

PEACHES: Use Diuron 80 Herbicide alone, or apply as a tank mixture with Sinbar.

Diuron 80 Herbicide Alone - Use only under trees established in the orchard for at least 3 years. Apply 2 to 5 lbs. 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.

Diuron 80 Herbicide 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.

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Soil Texture	Lbs. Product Per Acre			
	1 to 2% Organic Matter		More Than 2% Organic Matter	
	Diuron 80 Herbicide Plus Sinbar		Diuron 80 Herbicide Plus Sinbar	
Sandy loam	1.0	1.0	1.5	1.5
Loam. silt loam. silt	1.5	1.5	2.0	2.0
Clay loam. clay	2.0	2.0	2.0	2.0

Where crop is grown under furrow irrigation or under raised-berm flood irrigation (trees 4" to 5" 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.

Georgia - On trees established for at least 2 years, apply 2 to 3 lbs. pr acre in the spring. Repeat application in the fall but do not exceed 5 lbs. per acre per year. Add Surf Ac 820 at 1 pint per 25 gals. spray mixture to improve control of small, emerged weeds.

Where crop is grown under furrow irrigation or under raised-berm flood irrigation (trees 4" to 6" 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.

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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 4 lbs. per acre in the spring (March through May). In the Far West, treatment may be made in winter (December through February), or apply 2 lbs. per acre as a postharvest treatment followed by 2 lbs. in the spring.

PECANS: Use Diuron 80 Herbicide 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 gals. of water per acre. Apply in the spring before weeds emerge or during the early seedling stage of growth.

Soil Texture	Diuron 80 Herbicide		Tank Mixture	
	Alone*	-OR- Diuron 80 Herbicide plus Sinbar**		
Sandy loam	2		1 1/2	1 1/2
Loam. silt loam, silt	3		1 3/4	1 3/4
Clay loam. clay	4		2	2

*Use only on trees established in the grove for at least 3 years and on soils with at least 1/2% organic matter.

**Use on trees established in the grove for at least 1 year and on soils 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.

PINEAPPLE - Hawaii and Florida: Apply 4 to 8 lbs. per acre as a broadcast spray just before or immediately after planting but prior to weed emergence. Use 4 lbs. per acre after harvesting plant crop (for ratoon crop). For plant crop only, a second and third broadcast or interspace application may be made prior to differentiation at the rate of 2 lbs. per acre at intervals of not less than 2 months. Additional applications to plant crop may be made as needed to interspace only using 2 lbs. per acre. Do not apply more than 3 broadcast sprays (maximum 12 lbs. per acre) prior to differentiation nor more than 16 lbs. total per acre per plant crop. Treated areas may be planted to pineapple or sugarcane 1 year after last application.

Puerto Rico: Apply 3.75 to 6.25 lbs. per acre as a broadcast spray just before or immediately after planting but prior to weed emergence. Treated areas may be planted to pineapple or sugarcane 1 year after last application.

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WALNUTS (English) - California: Use only under trees established in the orchard for at least 1 year. As an initial treatment, apply 3 to 5 lbs. per acre after the orchard has been laid-up in final form (nontillage program) in late fall or early winter; retreat annually with 2 to 3 lbs. per acre. Alternatively, apply 2 lbs. 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 Washington: Make a single application of 4 lbs. 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 - Florida: Hand weed and mow fern; then make a single application of 3 lbs. 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 - Colorado, Montana, Nebraska, North Dakota, South Dakota, Wyoming: Use only under established planting (1 year or older) of American elm, caragana, cottonwood, Douglas fir, green ash, honeysuckle, Ponderosa pine, redcedar, Russian olive and Siberian elm. Use 2 1/2 to 5 lbs. per acre; apply as a band 4 ft. wide in the tree row (2 ft. on each side of row). For example, 1 oz. Diuron 80 Herbicide (4 level tablespoonfuls) treats 135 ft. of tree row (2 ft. on each side of row) at the rate of 5 lbs. 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.

NON-CROP WEED CONTROL

Diuron 80 Herbicide is an effective herbicide for the control of many annual and perennial grasses and herbaceous weeds on non-cropland areas where bare ground is desired. The degree of control and duration of effect will vary with the amount of chemical applied, soil texture, rainfall and other conditions.

Diuron 80 Herbicide may be used as a preemergence treatment at anytime of the 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 application is made to the soil shortly before weed growth begins. If dense growth is present, remove tops and spray the ground.

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Increased contact activity on established weeds may be obtained by the addition of Surf Ac 820 at the rate 2 qts. per 100 gals. of spray mixture. Apply as a drenching spray to actively growing weeds during warm weather when daily temperatures will exceed 70 F.

Except for small areas, use a fixed-boom power sprayer properly calibrated to insure a constant rate of application. Mix proper amount of Diuron 80 Herbicide into 10 parts of water to obtain uniform coverage: If Surf Ac 820 is used, dilute with 20 parts of water and add as last ingredient to nearly full tank. Material must be kept in suspension at all times. Agitate by mechanical or hydraulic means in the spray tank: if by-pass or return line is used, it should terminate at bottom of tank to minimize foaming. Openings in screens should be equal to or larger than 50 mesh.

General Weed Control: To control most 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, and around farm buildings - apply 5 to 20 lbs. per acre to control most annual weeds. Use 20 to 60 lbs. per acre for perennial weeds; additional treatment may be required where a longer period of control is desired or when hard-to-kill, deep-rooted perennial weeds such as johnsongrass are present. In low rainfall areas, Diuron 80 Herbicide may not provide satisfactory control of deep rooted perennial weeds.

For weed control on small areas, use one-half cupful of Diuron 80 Herbicide per 100 sq. ft. for a dosage of approximately 50 lbs. per acre.

Irrigation and Drainage Ditches: Apply 5 to 20 lbs. per acre to control most annual weeds; use 20 to 60 lbs. per acre to control both annual and perennial weeds. 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 Diuron 80 Herbicide with irrigation water (to 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 and waste remaining water before using ditch. Do not treat any ditch into which roots of trees or other desirable plants may extend as injury may result.

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STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE INSTRUCTIONS: 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. Do not stack over 2 pallets high. Move bags carefully so as not to tear or puncture. Do not move containers from one area to another unless they are securely sealed. Keep container tightly sealed when not in use. Do not allow bags to become wet or store in a damp, humid area. Keep away from any puncture source. Avoid storage near water supplies, food, feed and fertilizer to avoid contamination. Store in original containers 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.
4. Do not allow run-off 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: Completely empty bag into application equipment. Then dispose of empty bag 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 Drexel 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 Drexel Chemical Company and is accepted as such by the Buyer.

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