

IAMA

ACCT  
7/16/71  
1-1297-1  
USDA REG. NO. 11297-1  
DIUREX

# DIUREX

## DIURON WEED KILLER

### WETTABLE POWDER

**ACTIVE INGREDIENT:**

Diuron 3-(3,4-dichlorophenyl)-1, 1-dimethylurea 80%

**INERT INGREDIENTS:**

20%

**CAUTION!**

MAY IRRITATE EYES, NOSE,  
THROAT, AND SKIN.

KEEP OUT OF  
REACH OF  
CHILDREN

Avoid breathing dust or spray mist.  
Avoid contact with skin, eyes, and clothing.  
Harmful if swallowed.

GENERAL INFORMATION: "DIUREX" Diuron Weed Killer is a wetttable powder to be mixed in water and applied as a spray for control of weeds. Effects are slow to appear and will not become apparent until the chemical has been carried into the root zone of the weeds by moisture.

IMPORTANT: 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 lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of dry powder or spray to desirable plants. Do NOT contaminate domestic waters. Keep from contact with fertilizers, insecticides, fungicides, and seeds. Do NOT reuse container. Destroy by burying in a safe place. Do NOT burn.

Thoroughly clear all traces of DIUREX from application equipment immediately after use; otherwise, crop injury may result when equipment is used again. Flush tank, pump, hoses, and boom with several changes of water after removing nozzle tips and screens (clean these parts separately).

USDA Reg. No. 11297-1

**NET 50 LBS.**

MADE IN U.S.A. PRINTED IN U.S.A.

PRODUCED FOR

*IAMA, Incorporated*

TELEPHONE 837-2425  
AREA CODE 617

P. O. BOX 111, OFF SUMMER STREET  
MARSHFIELD HILLS, MASSACHUSETTS 02051

DIRECTIONS

Before spraying, calibrate equipment to determine quantity of water necessary to uniformly cover measured area to be treated—carefully weigh proper amount of Diurex and mix into necessary volume of water. Water should be used only as a carrier.

Material must be kept in suspension at all times by continuous agitation. Except for small areas, use fixed-nozzle sprayers properly calibrated to insure constant rate of application. Openings in screens should be placed no larger than 50 mesh. 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. Do not use air agitation. For general weed control in small areas, tank type hand sprayer or backpacking may be used. Shake or stir frequently.

NON-CROP WEED CONTROL

Diurex Duron Weed Killer is effective against most annual and perennial grasses and herbaceous weeds. It is most effective when applied to young plants. The degree of control and duration of effect will depend on the species of weed, soil type, and weather. Diurex Duron Weed Killer may be used at any time of the year and will control weeds in most areas. For control of weeds in the State of California, Diurex Duron Weed Killer is registered for use in the following areas: (1) All areas where the weeds are listed in the following table; (2) All areas where the weeds are listed in the following table and the weeds are listed in the following table.

For control of weeds in most established areas, it may be obtained by the addition of Du P. At Surfactant. Apply at a rate of 2 lbs. per 100 gals. of spray mixture. Apply as a trenching spray during warm weather when temperatures after treatment are above 70 F.

GENERAL WEED CONTROL: Use Diurex Duron Weed Killer for a controlled period of time on non-cropland such as utility highways, pipelines, and railroad rights-of-way, petroleum tank farms, lumberyards, storage areas, industrial plant sites, and around farm buildings. Apply 5 to 20 lbs. of Diurex Duron Weed Killer per acre to control most annual weeds. Use 20 to 60 lbs. per acre to control both annual and perennial weeds. Up to 80 lbs. per acre and repeat treatment may be required where a longer period of control is desired or when hard-to-kill deep rooted perennial weeds such as hard fescue grass are present. In low rainfall areas, Diurex may not provide satisfactory control of hard-to-kill deep rooted perennial weeds.

IRRIGATION AND DRAINAGE DITCHES: Apply 1 to 2 lbs. per 1,000 sq ft (40 to 100 lbs. per acre). For irrigation ditches apply during the dormant season, and when ditch is not in use. To minimize movement of Diurex with irrigation water and to reduce injury, it is essential that it be fixed in the treated soil by moisture. Apply before expected seas and rainfall; if possible, avoid soil in the ditch is still moist. If rainfall has not fallen at least 4 inches following treatment and before intended use of irrigation ditch, fill with water and allow to stand for 72 hours. Drain off excess water from ditch before using ditch. Do not treat any ditch area in which roots of trees or other desirable plants may extend.

FOR SMALL AREAS: One half quart of Diurex per 100 sq ft is approximately 50 lbs. per acre.

SELECTIVE USE IN CROPS

Diurex should be used only in accordance with recommendations on this label.

Diurex Duron Weed Killer selectively controls weed seedlings such as crabgrass, watergrass, foxtail, Johnson grass, pigweed, purslane, Spanish needle, ragweed, chickweed, wild mustard, annual ryegrass, annual morning glory, and lambquarters. Any well established weed should first be eliminated by mechanical or other means. For best results, the soil should be well tilled and as free as possible from trash and clods. Unless otherwise directed, surface of the soil should not be cultivated or disturbed after application as efficiency may be reduced and crop injury may result. Surface disturbance in the form of rainfall or irrigation is necessary after treatment to carry the chemical into the soil to control germinating weeds.

Application should be by fixed-nozzle sprayer or backpacking at a constant speed and rate of delivery. Make certain spray equipment is clean free of sticky residue and pesticide deposits. Unless otherwise directed, apply to surface of ground. Use 1 quart water per 40 lbs. per acre of area actually sprayed to provide thorough and uniform coverage. Spray equipment must be shut off about start of turning, slowing or stopping machinery to avoid crop injury.

IMPORTANT: Do not spray on or near food and feed crops. Do not spray on or near water courses after last application as injury to subsequent crops may result.

SUGAR CANE IN HAWAII AND PUERTO RICO: Apply 4 to 6 lbs. per acre as a broadcast spray prior to weed emergence after planting or after harvesting. Plant crop may be treated on or before a second and third application of 2 to 3 lbs. per acre of area actually sprayed may be made as needed by directed spray inter-row. Do not apply more than 3 treatments or more than 10 lbs. per acre (of area actually sprayed) between plantings or harvestings and treated areas may be replanted to sugar cane one year after last application.

SUGAR CANE IN LOUISIANA: Apply broadcast or band spray to control weeds in the young cane application of 3 to 4 lbs. per acre of area actually sprayed prior to first planting. A second and third application of 2 to 3 lbs. per acre of area actually sprayed may be made as needed by directed spray inter-row. Do not apply more than 3 treatments or more than 10 lbs. per acre (of area actually sprayed) between plantings or harvestings and treated areas may be replanted to sugar cane one year after last application.

SUGAR CANE IN FLORIDA: For high organic soils, apply 2 to 3 lbs. per acre (of area actually sprayed) as a broadcast or band spray prior to weed emergence after planting or after harvesting plant crop for ratoon crop. A second and third application of 2 to 3 lbs. per acre of area actually sprayed may be made as needed by directed spray inter-row. Do not apply more than 3 treatments or more than 10 lbs. per acre (of area actually sprayed) between plantings or harvestings and treated areas may be replanted to sugar cane one year after last application.

PINEAPPLE IN HAWAII: Apply 1 to 8 lbs. per acre as a broadcast spray prior to weed emergence immediately after planting; use 4 lbs. after harvesting plant crop for ratoon crop. For plant crop only, a second and third

SELECTIVE USE IN CROPS—CONTINUED FROM LEFT PANEL

broadcast or interspace application may be made prior to differentiation at the rate of 2 lbs. per acre (of area actually sprayed) at intervals of not less than 2 months. Additional applications to plant crop may be made as needed to interspace only, using 2 lbs. Do not apply more than 3 broadcast sprays (at maximum 12 lbs. per acre) prior to differentiation nor more than 16 lbs. total per acre actually treated per plant crop. Treated areas may be planted to pineapple or sugar cane one year after last application.

COTTON (Lay-By): Use 1 to 1 1/2 lbs. (1 to 2 lbs. in California and Arizona) in 25 to 40 gals. water per acre; use the higher rates on heavier soil types (those high in clay and or organic matter). Do not use on light (sandy or low organic) soils as injury to the cotton may result. Apply when cotton is at least 12 inches high (at least 20 inches for Pima S-2). Keep contact of cotton plants with spray or drift to a minimum.

Apply immediately after the last cultivation, directing spray to cover the soil beneath cotton plants and between rows. Alternatively for control of emerged annual weeds 4 inches or less in height) at lay by time, add 1 pt. Du Pont Surfactant WK for each 25 gals. spray; apply as a directed spray to cover weed foliage beneath cotton plants and between rows.

Do not re-plant treated areas to any crop within one year after last application as injury to subsequent crops may result, except that cotton, corn or sorghum (grain sorghums only, not sorgho or forage sorghums, or grass sorghums) may be planted in the spring of the year following treatment.

ALFALFA: Use in areas where alfalfa becomes winter dormant and in areas of California (north of the Tehachapi Mountains) where alfalfa becomes semi-dormant. Use 3 lbs. per acre (except east of the Appalachian Mountains, use 1 1/2 to 2 lbs.). For control of volunteer alfalfa seedlings in the Far West, use 4 lbs. per acre. In the Pacific Northwest and east of the Appalachians, apply in the fall after alfalfa becomes dormant but no later than mid-December. In California and Nevada, application may be made as late as January. In other areas where alfalfa becomes winter dormant, apply in March or early April before new spring growth begins. Do not apply to very light, sandy soils, nor to seedling alfalfa; treat only stands established for one year or more.

APPLES AND PEARS: Use only under trees established in the orchard for at least one year. Do not use under dwarf or semi-dwarf trees nor on light, sandy, or gravelly soils as injury to trees may result. Use 4 lbs. per acre (of area normally sprayed), applied to area under the trees or as a band in tree row; avoid contact of foliage or fruit. Apply in the spring (March through May) in Far West, treatment may be made in winter (December through February); or apply 2 lbs. as post-harvest treatment followed by 2 lbs. in the spring.

GRASS-SEED CROPS (Perennial) IN WESTERN OREGON: Apply only to established plantings (at least one year old) of alta fescue, Highland bentgrass, Astoria bentgrass, orchard grass and Merion bluegrass. Apply 1 1/2 to 2 lbs. per acre between October 1 and November 15. For control of perennial velvet grass in Highland and Astoria bentgrasses, and in alta fescue, apply 4 lbs. per acre in October.

BLUEBERRIES, CANEBERRIES AND GOOSEBERRIES IN WESTERN WASHINGTON AND WESTERN OREGON: For control of winter annual weeds, apply 2 lbs. per acre (of area actually sprayed) as a band application at base of canes or bushes in October or November. A second application at the same rate in late spring (at least 60 days before first picking of berries) controls 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. Do not apply to berry plantings less than one year old, nor to foliage, nor to plants whose roots are exposed, as injury may result.

GRAPES: Apply only to established vineyards (at least three years old) as a band treatment to grape rows. Do not apply to vines with trunks less than 1 1/2 inches in diameter, and do not use on sand or loamy sand nor on shallow or gravelly soils as injury to grapes may result. NOTE: On soils low in clay or organic matter, severe plant injury may result if unusually heavy rains follow treatment and this risk must be assumed by the user.

East of the Rockies: On soils low in clay or organic matter, use 2 to 3 lbs. per acre (of area actually sprayed); on soils high in clay or organic matter, use 3 to 6 lbs. Apply in the spring just prior to germination and growth of annual weeds. West of the Rockies: Apply in December, January or February. As an initial treatment, make a single application of 3 to 4 lbs. per acre (of area actually sprayed); subsequent annual applications of 2 lbs. will usually give adequate weed control. As an alternative to the above schedule, apply 2 to 3 lbs. Diurex per acre (of area actually sprayed) in October or November and repeat application at the same rate in March or April.

PEPPERMINT IN PACIFIC NORTHWEST ONLY: Apply 3 lbs. per acre just after the last cultivation in the spring, prior to emergence of the peppermint. Do not use on very light, sandy soils and do not apply to newly planted (less than one year old) emerged peppermint as injury may result. Sprinkler or flood irrigation is desirable if no rainfall occurs within 2 weeks following treatment.

WINTER WHEAT (Drill-Planted) IN WESTERN WASHINGTON AND WESTERN OREGON: Apply 1 1/2 to 2 lbs. per acre after planting but before emergence of wheat. Crop injury may result if application is made to ground which is cloddy or compacted resulting in exposed or improperly planted seed. Do not replant areas to any crop within one year after application as injury to subsequent crops may result.

ORANGES, LEMONS, AND GRAPEFRUIT IN ARIZONA (except Yuma area) AND CALIFORNIA (except Imperial and Coachella Valleys): Use only in well established groves (at least one year). Apply as a broadcast spray shortly after grove has been laid up in fall or in non-tillage program) in late fall or early winter. As an initial treatment, make a single application of 3 to 4 lbs. per acre; subsequent annual applications of 2 to 3 lbs. will usually give adequate weed control. As an alternative to the above schedule, apply 2 lbs. per acre in October or November, and repeat at same rate in March or April. Avoid contact of foliage and fruit with spray or drift. Do not use on light soils (loamy sand) as injury to trees may result.

NOTICE TO BUYER: SELLER makes no warranty of any kind, express or implied, concerning the use of this product. BUYER assumes all risk of use or handling whether in accordance with directions or not.

ACCEPTED 7/16/71

CONTINUED ON RIGHT PANEL

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PRODUCED FOR

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TELEPHONE 833-2524  
AREA CODE 717

P. O. BOX 111, OFF SUMMER STREET  
MARSHFIELD HILLS, MASSACHUSETTS 02051

BEST POSITION

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DIRECTIONS

#11297-1

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7/16/71

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ALLEN

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GRASSHOPPER

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NOTICE TO BUYER