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ACCEPTED

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Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for use as pesticide
registered under
EPA Reg. No. 7113-86

CHEMPAR DIURON 80% WP

Weed Killer

Active ingredient:		
Diuron 3-(3,4-dichlorophenyl)-1,1-dimethylurea	80%	
Inert ingredients:		20%
	Total	100%

ALL DOSAGES ARE UNDERSTOOD IN POUNDS OF DIURON 80% PER ACRE

CAUTION:

KEEP OUT OF THE REACH OF CHILDREN

May irritate eyes, nose, throat and skin. Avoid breathing dust or spray mist. Avoid contact with skin, eyes and clothing. Do not contaminate streams or ponds. Except as recommended on this label, do not apply or allow to come in contact with desirable trees or plants, or their roots. Do not use on lawns, walks, driveways or other similar areas. Keep away from fertilizers, insecticides, fungicides and seeds. Clean all application equipment thoroughly immediately after use. Flush tank and pump equipment and accessories repeatedly with plenty of water after use. Do not re-use shipping containers. Destroy by crushing and burying. Do not contaminate water by cleaning of equipment, or disposal of wastes. Apply this product only as specified on label.

DIRECTIONS FOR USE.

Clean equipment before use. Calibrate equipment to determine amount of water necessary to cover thoroughly the intended area. Maintain Diuron well suspended in water by continuous agitation. Screens should have a minimum of 50 mesh. If return line is used, minimize foaming by allowing it to end at bottom of tank. For use on small areas, portable equipment may be used provided the solution is stirred frequently.

NON-CROP USE.

Can be used as non-selective weed killer against many annual and perennial grasses and weeds. The degree of control can be adjusted by the amount of active material used. Do not apply to frozen ground. Best results are obtained before emergence of weeds in moist soil and at temperatures of 70°F or higher. After emergence, remove tops and spray the soil. To increase activity on established weeds, add 2 quarts Surfactant Adsee 801 per 100 gallons of spray mixture. Apply as drench spray in temperatures of 70°F or higher.

For use on non-crop land on UTILITY, HIGHWAY, PIPELINE and RAILROAD RIGHT OF WAYS, STORAGE AREAS, LUMBERYARDS, PETROLEUM TANK FARMS, INDUSTRIAL PLANT and FARM BUILDING SITES, spray the following dosages of Diuron per acre:

Annual weeds	5 to 20 lbs.
Annual and perennial weeds	20 to 60 lbs.
For longer control and deep-rooted perennial weeds	Make additional treatments, if necessary

FOR SMALL AREAS: 1/2 cupful of Diuron per 100 sq. ft.

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SELECTIVE CROP USE

Any well established weeds should be eliminated prior to use of this product. The following weed seedlings can be controlled with Diuron: crabgrass, foxtail, watergrass, pigweed, Johnson grass, Spanish needle, purslane, chickweed, ragweed, annual ryegrass, annual morningglory, wild mustard, lambsquarters. Apply when moisture is present or just before rain to allow the chemical to drain to root area. Do not cultivate area right after application to avoid crop injury. Apply with sufficient water (25 to 40 gals. per acre) with a fixed-boom power sprayer to allow thorough coverage.

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

Unless otherwise directed, do not use (1) on light (sand, loamy sand or gravelly) soils or exposed subsoil;

(2) on alfalfa, citrus, cotton (lay-by) and sugarcane where organic matter is less than 1%.

ALFALFA, CITRUS: Refer to supplement No. 1 from manufacturer for additional use directions and limitations.

CROPS

All rates are expressed as broadcast rates unless otherwise specified. Unless otherwise directed, surface of soil should not be cultivated or disturbed after application as crop injury may result.

Unless otherwise indicated, do not replant treated areas at least two years after application of Diuron to avoid crop injury.

COTTON

Pre-emergence (Except Arizona and California): Make a single application as a broadcast or a band spray after planting but before cotton emerges. Use at the following rates:

BROADCAST TREATMENT

Soil Type*	Spray Mixture Lbs. Diuron in 25 to 40 gals. Water per Acre
Loamy sand	0.6
Sandy loam, silt loam and silt	1.0
Sandy clay loam, clay loam, silty clay and sand clay	1.25
Silty clay and clay	2.0

*Do not use on sand as crop injury may result. Do not treat cotton in deep furrows as crop injury may result.

BAND TREATMENT

Use proportionately less; for example, for 14 inch band on 42 inch row, use 1/3 of broadcast rate.

Apply immediately after cotton is planted; wherever possible, planting and spraying should be combined in one operation. For best results, soil should be well prepared and as free as possible from trash and clods. Shallow incorporation (no deeper than 1/4 inch) with a rotary hoe or similar equipment following planting usually improves results particularly during dry weather. A wide press wheel following planting should be used to provide a level seed bed for subsequent early season post-emergence treatments.

Treatment usually provides weed control for a period of 3 to 8 weeks. Sufficient moisture (usually 1 to 2 inches) in the form of rainfall or irrigation is necessary after treatment to carry the chemical into the root zone of germinating weeds; best results are obtained when this occurs within 2 weeks after application. If moisture is insufficient to activate Diuron or if soil becomes crusted before crop emerges, a shallow rotary hoeing (no deeper than 1/4 inch) should be made before weeds become well established.

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If initial seeding fails to produce a stand, cotton may be replanted in soil treated with Diuron. Wherever possible, avoid disturbing original bed. If necessary to rework soil before replanting, use shallow cultivation such as disking; do not re-list nor move soil into the original drill area; plant seed at least 1 inch deep; do not Re-treat field with a second pre-emergence application of Diuron during the same crop year as injury to the crop may result.

Post-emergence: Early Season - Apply in combination with Surfactant Adsee 801 as a directed spray when cotton is at least 6 inches tall and when weeds do not exceed 2 inches in height; a second application may be made if needed. Control of weeds under drought stress or over 2 inches in height is usually impractical. Apply as a band treatment only, directing spray to cover weed foliage. DO NOT SPRAY OVER TOP OF COTTON. Use pressure of 20 to 25 psi and adjust nozzles to minimize contact of cotton leaves with spray or drift, or crop injury may result.

BAND TREATMENT

Amount per acre of Cropland when applied to 14" band on 42" rows (in 10 to 15 gals. water)*

Weeds	Diuron	Equivalent Broadcast Rates
Annual weeds	0.18 lb.	2.8 oz.
Pigweed	0.09 lb.	1.4 oz.

*Include Surfactant Adsee 801 at 1 pt. per 25 gals. of spray; dilute with 10 parts water and add as last ingredient to nearly full tank.

Late Season (Lay-By) - Use 1 to 1½ lbs. Diuron (1 to 2 lbs. in Arizona and California) in 25 to 40 gals. water per acre as a directed spray (see Soil Limitations). Apply when cotton is at least 12 inches high (at least 20 inches for Pima S-2). Keep contact of spray or drift on cotton plants to a minimum. DO NOT SPRAY OVER TOP OF COTTON. For control of germinating weed seedlings, apply immediately after 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. Surfactant Adsee 801 for each 25 gals. spray; apply as a directed spray to cover weed foliage beneath cotton plants and between rows. NOTE: Treatment of 1/2 to 3/4 lb. Diuron per acre plus surfactant followed by the same treatment later, if needed, may be used as an alternate to the preceding recommendation.

In irrigated cotton, best pre-emergence 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 or germinating weeds.

SUBSEQUENT CROPS:

Diuron - Type of Application	Crops that may Follow Treated Cotton
Band pre- or post-emergence	Any crop 4 months after last application.
Band pre- plus post-emergence or Broadcast pre-emergence (and pre-plant) or Broadcast pre-emergence plus band post-emergence	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.
Broadcast post-emergence (lay-by)	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.

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NOTE: During a single crop season, do not exceed the following amount of Diuron per acre as injury to subsequent crops may result: 0.8 lbs. on loamy sand; 1.2 lbs. on sandy loam; 1.6 lbs. on clay loam; and 2.2 lbs. on clay.

PINEAPPLE - Hawaii: Apply 4 to 8 lbs. per acre as a broadcast spray immediately after planting and 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 sugar cane 1 year after last application.

SUGAR CANE: To prevent possible crop injury on new cane varieties, tolerance to Diuron should be determined prior to adoption as field practice. Do not treat sugar cane growing on thinly covered sub-soils or rocky areas as crop injury may result; See Soil Limitations. Temporary chlorosis of the crop may result from application over emerged cane; to minimize chlorosis, use directed post-emergence sprays.

Florida: 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). A second and third application of 2 lbs. per acre may be made as needed by directed spray inter-row. Do not apply more than 3 treatments nor more than 6 lbs. per acre between planting (or ratooning) and harvest.

Hawaii and Puerto Rico: Apply 4 to 8 lbs. 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 Surfactant Adsee 801, Retzanol SN-70, etc.) to the spray mixture 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 sugar cane or pineapple one year after last application.

Louisiana: Use on plant cane seeded on fallowed ground. Make a single application of 3 to 3½ lbs. per acre at either of the following times: Fall Treatment (August through October)-Treat a 2 foot 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 foot band over the row before weeds or cane emerge.

MISCELLANEOUS USES: For other uses consult the distributor or manufacturer, or your local agricultural experimental station for registered use directions.

DO NOT STORE WITH FOODSTUFFS.

NOTICE: Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

Manufactured for:
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