



# KARMEX

REG. U. S. PAT. OFF.

## DIURON WEED KILLER WETTABLE POWDER

**ACTIVE INGREDIENT:**  
 Diuron [3-(3,4-dichlorophenyl)-1,1-dimethylurea] ..... 80%  
**OTHER INGREDIENTS** ..... 20%

U. S. Pat. 2,656,445

### GENERAL INFORMATION

"Karmex" Diuron Weed Killer is a wettable powder to be mixed in water and applied as a surface spray to the surface of the ground 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. It is non-flammable, non-volatile, non-toxic, and is low in toxicity to man and animals under recommended conditions of use.

### CAUTION! MAY CAUSE IRRITATION OF EYES, NOSE, THROAT, AND SKIN.

Avoid breathing dust or spray mist.

Avoid contact with skin, eyes, and clothing.

### 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 apply on lawns, walks, driveways, tennis courts, or similar areas. Prevent drift of dry powder spray to desirable plants. Do NOT contaminate domestic waters. Keep from contact with insecticides, fungicides, and seeds. Thoroughly clean application equipment after use. Do NOT use equipment with which "Karmex" has been applied for spraying insecticides, fungicides, and fertilizers as plant injury may result.

### DIRECTIONS

Before spraying, calibrate equipment to determine quantity of water necessary to uniformly cover measured area to be treated. Carefully weigh proper amount of "Karmex" and mix into necessary volume of water. Water serves only as a carrier.

Material must be kept in suspension at all times by continuous agitation. Except for small areas, use fixed-boom power sprayers properly calibrated to insure constant rate of application. Openings in screens should be equal to or 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 head sprayer or sprinkling can may be used; shake or stir frequently.

### NON-CROP WEED CONTROL

"Karmex" is an effective general 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 type, rainfall and other conditions.

"Karmex" may be used at any time for non-cropland weed control, except when ground is frozen, provided adequate moisture is supplied by rainfall or artificial means. Best results are obtained if applied shortly before weed growth begins. If dense growth is present, remove tops and spray the ground.

**GENERAL WEED CONTROL:** To control most weeds for an extended period of time on non-cropland areas such as UTILITY, HIGHWAY, PIPELINE and RAILROAD RIGHT OF WAYS, PETROLEUM TANK FIELDS, LUMBERYARDS, STORAGE AREAS, INDUSTRIAL PLANT SITES, and AROUND FARM BUILDINGS—Apply 10 to 20 lbs. of "Karmex" 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 Johnson grass are present. In low rainfall areas, "Karmex" may not provide satisfactory control of hard-to-kill, deep-rooted perennial weeds.

**Irrigation and Drainage Ditches:** Apply 1 to 2½ lbs. per 1,000 sq. ft. (40 to 100 lbs. per acre). For irrigation ditches apply during the non-crop season, and when ditch is not in use. To minimize movement of "Karmex" with irrigation water and avoid crop injury, it is essential that it be fixed in the treated soil by moisture. Apply before expected seasonal rainfall, if possible when soil in the ditch is still moist. If rainfall has not totaled 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 and waste remaining water before using ditch. Do not treat any ditch area into which roots of trees or other desirable plants may extend.

**FOR SMALL AREAS:** One-half cupful of "Karmex" per 100 sq. ft. is approximately 50 lbs. per acre.

BEST DOCUMENT AVAILABLE

NET 50 LBS.

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

340 7-62

DU PONT DE NEMOURS & Co. (INC.) INDUSTRIAL AND BIOCHEMICALS DEPT., WILMINGTON, DEL.

# AGRICULTURAL BULLETIN



from

*Du Pont* 5

E. I. DU PONT DE NEMOURS & COMPANY (INC.) • INDUSTRIAL AND BIOCHEMICALS DEPT.

## SUPPLEMENTAL LABELING

### KARMEX<sup>®</sup> DL and KARMEX<sup>®</sup> DIURON WEED KILLERS FOR POST-EMERGENCE WEED CONTROL IN GRAIN SORGHUM (SEED CROP ONLY) IN THE SOUTHWESTERN STATES

Du Pont "Karmex" DL and "Karmex" Diuron Weed Killers, in combination with Du Pont Surfactant WK, are recommended for the selective control of annual weeds in grain sorghum (seed crop only). Treatment provides control of young, actively growing annual weeds such as crabgrass, barnyardgrass, pigweed, purslane, and annual morningglory. At rates recommended, treatment will not control seedling nor established Johnsongrass, nutgrass, or other perennial weeds.

#### WHEN TO APPLY

Apply "Karmex" DL or "Karmex" in combination with Surfactant WK as a directed post-emergence spray after sorghum is 15 inches tall and before grasses exceed 2 inches and broadleaves exceed 4 inches in height. Treatment of weeds under drought stress is generally ineffective.

#### HOW TO APPLY

Apply as a directed spray only. DO NOT SPRAY OVER TOP OF SORGHUM. Direct spray to cover weed foliage, keeping contact with crop plants at a minimum.

Apply "Karmex" DL at 9 to 18 fluid ounces, or "Karmex" at 1/4 to 1/2 pound in 25 to 40 gallons of water per acre of ground area actually sprayed. (For band treatment of 14 inches in 42 inch row spacing, divide these rates by 3 to obtain amount of product per acre of sorghum.) Use the lower rate on broadleaves up to 2 inches tall. Use the higher rate on grasses up to 2 inches and broadleaves up to 4 inches tall. When the lower rate is used, a second application may be made if needed provided that the total herbicide applied in one crop year does not exceed 18 fluid ounces of "Karmex" DL or 1/2 pound of "Karmex" per acre of ground area actually sprayed.

Add Surfactant WK at the rate of 1 pint per 25 gals. of spray mixture. When mixing spray, dilute Surfactant WK with 10 parts of water and add as last ingredient to nearly full spray tank.

Use a low volume sprayer properly calibrated to a constant speed and rate of delivery. Use nozzle pressure of 20 to 25 psi to minimize spray drift. Continuous agitation as directed on the container label is required to keep the material in suspension. Spray booms must be



BETTER THINGS FOR BETTER LIVING... THROUGH CHEMISTRY

Reg. #352-247(284)