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PM 23

100-638

(Front Panel)

Dual® 25G

Granular Herbicide

For weed control in corn, peanuts,  
potatoes, and soybeans

50 Pounds  
Net Weight

EXPIRES  
JUL 13 1987  
100-638

Active Ingredient:

Metolachlor: 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl) acetamide .....	25.0%
Inert Ingredients:	75.0%
Total:	100.0%

Control No. 52600

Dual 25G is a granular herbicide

Keep Out of Reach of Children.

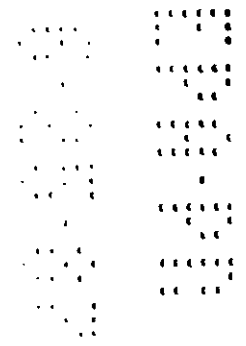
Caution

See additional precautionary statements  
on back of bag.

EPA Reg. No. 100-638

See directions for use on back of bag.

CIBA-GEIGY



(Back Panel)

DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product.

Conditions of Sale and Warranty

The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of CIBA-GEIGY or the Seller. All such risks shall be assumed by the Buyer.

CIBA-GEIGY warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. CIBA-GEIGY makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall CIBA-GEIGY or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. CIBA-GEIGY and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of CIBA-GEIGY.

DIRECTIONS FOR USE

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

No user shall permit the application of this product in such a manner as to directly or indirectly expose workers or other persons except those knowingly involved in the application. The area being treated must be vacated by unprotected persons.

Reentry Statement

Do not enter treated areas without protective clothing until dust has settled.

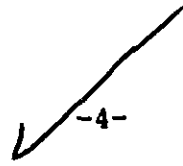
Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must be given which inform workers of areas or fields that may not be entered without specific protective clothing until dust has settled, and appropriate actions to take as described under Precautionary Statements at the end of this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: "CAUTION. Area treated with Dual 25G on (date of application). Do not enter without appropriate protective clothing until dust has settled. In case of accidental exposure, flush eyes or skin with plenty of water. Call a physician if irritation persists. Remove and wash contaminated clothing before reuse."

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY, AND/OR ILLEGAL RESIDUES.

General Information

Dual 25G will control many annual grasses and certain broadleaf weeds in corn, peanuts, potatoes, and soybeans. It should be applied prior to the emergence of weeds. It may be preplant surface-applied (corn and soybeans only), or incorporated into



the surface 1-2 inches of soil prior to planting or left on the soil surface during or after planting. Dry weather following application of Dual 25G may reduce its effectiveness. Shallow cultivate if weeds develop or if tillage is necessary to improve the physical condition of the soil.

Precaution: Injury may occur following the use of Dual 25G under abnormally high moisture conditions during early development of the crop.

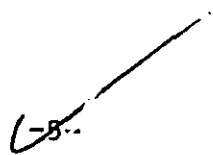
Weeds Controlled

barnyardgrass (watergrass)	green foxtail	yellow foxtail
crabgrass	prairie cupgrass	<u>yellow nutsedge</u>
crowfootgrass	red rice	black nightshade
fall panicum	signalgrass	carpetweed
foxtail millet	(Brachiaria)	Florida pusley
giant foxtail	southwestern cupgrass	galinsoga
goosegrass	witchgrass	pigweed

Weeds Partially Controlled\*: common purslane, Florida beggarweed, hairy nightshade, sandbur, seedling johnsongrass, shattercane and volunteer sorghum.

\*Control of these weeds can be erratic due partially to variable weather conditions. Control may be improved by following these suggested procedures:

1. Thoroughly till moist soil to destroy germinating and emerged weeds. If Dual 25G is to be applied preplant incorporated, this tillage may be used to incorporate Dual 25G if uniform 2 inch incorporation is achieved as recommended under Application Procedures.
2. Plant crop into moist soil immediately after tillage. If Dual 25G is to be used preemergence, apply at planting or immediately after planting.
3. If available, sprinkler irrigate within 2 days after application. Apply 1/2-1 inch of water. Use lower water volume (1/2 inch) on coarse-textured soils and higher volume (1 inch) on finer textured soils.
4. If irrigation is not possible and rain does not occur within 2 days after planting and application, weed control may be decreased. Under these conditions, a uniform, shallow cultivation is recommended as soon as weeds emerge.



Application Procedures

Dual 25G may be applied either broadcast or banded.

Broadcast Treatment - Dual 25G may be applied with a broadcast type granular applicator or with a cyclone type spreader. Use applicators and techniques that will apply the granules uniformly to the soil.

Band Treatment - Dual 25G may be applied with any standard granular applicator capable of uniformly distributing a pre-determined amount of granules to a desired area. Band treatment made at seeding should only be applied behind the press wheel.

Note: Caution should be taken with seeding equipment so that any track (soil depression) made by the planter press wheel is minimal. This will reduce concentration of granules in the press wheel track by heavy rain which can result in crop injury. Soil tillage should not follow the use of band applications unless it is adapted so as not to displace the band and hence reduce weed control in the band.

Applicator settings are given for band applications in Chart 1. These settings were determined under laboratory conditions to +5% accuracy. Note that the settings may differ depending on Speed of application, as well as rate per acre. It is important that the user calibrate each individual granular applicator prior to its use. Since the actual setting for each individual granular applicator may vary, the settings shown should serve only as guidelines for calibration.

Calculate the amount of Dual 25G needed for band treatment as follows:

$$\frac{\text{Band width in inches}}{\text{Row spacing in inches}} \times \text{Broadcast rate per acre} = \text{Band rate per acre}$$

Example: If 16 lbs. per acre is recommended for broadcast application and you wish to treat a band 14 inches wide in crop rows spaced 30 inches apart:

$$\frac{14}{30} \times 16 = 7.5 \text{ lbs. of granules needed for each acre that is to be treated.}$$

Do not apply Dual 25G during periods of high winds. Wind may disrupt placement of the granules and reduce weed control. Locate granular diffusers close to the ground to reduce granular displacement. Wind shield attachments are advisable.

-6- *[Handwritten mark]*

Chart 1: Applicator Settings For 14-Inch Band Width\*

Applicator Brand	Speed MPH	Equivalent Broadcast Rate Per Acre				
		6 Lbs.	8 Lbs.	10 Lbs.	12 Lbs.	16 Lbs.
Gandy Two-opening (For 14-inch band) Model No. S-902	4	8.5	10	11	12	14
	5	9.5	11	12	13	15.5
	6	10.5	12	13	15	17
International Harvester 1980 & Before Allis Chalmers 1979 & After	4	.80	1.0	1.1	1.2	1.35
	5	.92	1.1	1.15	1.38	1.6
	6	1.0	1.13	1.25	1.45	1.9
International Harvester 1981 & After	4	1.65	1.75	1.85	1.9	2.1
	5	1.75	1.85	1.95	2.0	2.25
	6	1.85	1.95	2.0	2.1	2.45
John Deere (Metal Box)	4	1/19	1/21	1/23	1/25	1/29
	5	1/21	1/23	1/25	1/28	2/1
	6	1/22	1/24	1/27	1/30	2/5
John Deere 1978 & Before Meter Scale 0..10..20.. etc.	4	7	8	10	11	14
	5	8	9	11	13	17
	6	9	10	12	14	18
John Deere 1979 & Later Meter Scale 0..5..15.. etc.	4	5	6	7	9	12
	5	6	7	9	10	13
	6	7	8	10	11	15
Noble 1972 & Before	4	4	5	6	8	10
	5	5	6	8	9	12
	6	6	7	9	11	13
Noble 1973 & Later	4	3	4	5	6	7
	5	4	5	6	7	9
	6	5	6	7	8	10

\*Settings are for application of the equivalent broadcast rates per acre indicated in a 14-inch band at speed (miles per hour) shown. If other than a 14-inch band is to be used, these settings do not apply and additional calibration will be necessary.

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Calibration of Band Applicators

To calibrate a granular applicator for a standard 14-inch band, a sample has to be collected while the applicator is either running or simulating a run over a distance of 500 ft.

Procedure

1. Fill applicator box with Dual 25G.
2. Refer to Chart 1 and adjust the setting on your applicator to correspond to the desired rate per acre.
3. Attach a plastic bag or similar container to the applicator spout after detaching the delivery tube.
4. Make the 500 ft. run at planting speed.

Speed/Time required to cover 500 feet:

- 4 mph = 1 min. 25 sec.
- 5 mph = 1 min. 8 sec.
- 6 mph = 57 sec.

5. Weigh granules collected (or measure volume) and, if necessary, adjust and make successive runs until the setting delivers the correct number of ounces per 500 ft. of row, as shown in Chart 2.
6. Repeat this procedure for each granular applicator box.

Chart 2: The Equivalent Broadcast Rate Per Acre in Volume and Weight for 500 Feet on the Basis of a 14-inch Band

<u>Broadcast Rate Per Acre</u>	<u>Volume Collected In 14-inch Band 500 Linear Feet</u>	<u>Weight Collected In 14-inch Band 500 Linear Feet</u>
6 lbs.	1.6 fl. oz.	1.3 oz.
8 lbs.	2.2 fl. oz.	1.7 oz.
10 lbs.	2.8 fl. oz.	2.2 oz.
12 lbs.	3.2 fl. oz.	2.6 oz.
16 lbs.	4.5 fl. oz.	3.5 oz.

For band widths other than 14 inches, the calibration distance will differ from 500 ft.

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For other band widths, calculate the relative calibration distance in which to collect the corresponding weight or volume of Dual 25G in Chart 2 as follows:

$$\frac{14 \text{ (Inches)}}{\text{Desired band width (Inches)}} \times 500 = \text{Calibration distance in feet}$$

Example: A band width of 10 inches is to be used, instead of 14 inches, to apply Dual 25G at an equivalent rate of 10 lbs./broadcast acre.

A.  $\frac{14 \text{ Inches}}{10 \text{ Inches}} \times 500 \text{ Ft.} = 700 \text{ Ft.}$

B. Collect 2.8 fl. oz. by volume or 2.15 oz. by weight for the newly calculated calibration distance of 700 ft. for a 10-inch band.

### Corn

For control of annual grasses and broadleaf weeds listed under the General Information section, apply Dual 25G either preplant incorporated or preemergence to corn before weeds emerge. For extended control of annual weeds, Dual 25G may be applied to weed free soil at the time of the last cultivation (lay-by application) either as a surface or shallow incorporated treatment.

### Conventional Tillage

Preplant Incorporated: Broadcast Dual 25G to the soil and incorporate within the surface 1-2 inches of soil using the appropriate rate from Table 1 within 14 days before planting using appropriate surface incorporating equipment such as a finishing disk, harrow, rolling cultivator, or similar implement capable of providing uniform incorporation.

Preemergence: Band or broadcast Dual 25G to the soil surface during or after planting and before weeds emerge using the appropriate rate from Table 1. For band treatment, apply granules behind the press wheel.

Lay-by (Last Cultivation) Application: Apply the appropriate rate of Dual 25G from Table 1 on a broadcast basis at lay-by. Applications should be made before the corn plants exceed 40 inches in height. The soil should be free of weeds at the time of application, and the granules either left on the surface or shallowly incorporated into the soil. Use an application method that will not allow granules to get into the corn whorl.



This application of Dual 25G may follow any preplant or pre-emergence herbicide application including Dual 8E or Dual 25G.

✓ Table 1: Dual 25G - Corn\*\*

Soil texture	Broadcast rate per acre	
	Less than 3% organic matter	3-6%* organic matter
COARSE: Sand, loamy sand, sandy loam	6-8 lbs.	8 lbs.
MEDIUM: Loam, silt loam, silt	8-10 lbs.	8-10 lbs.
FINE: Silty clay loam, sandy clay loam, silty clay, sandy clay, clay loam, clay	8-10 lbs.	10-12 lbs.
Muck or peat soils	DO NOT USE	

\*Dual 25G may be used up to 16 lbs. per acre, broadcast basis, on soils having an organic matter content greater than 6%.

\*\*Dual 25G may be used sequentially in place of Dual 8E with Bladex® or Banvel® applied at the tank mix rate specified on the respective product labels.

Reduced-Tillage and No Tillage

Preplant Surface-Applied: Broadcast Dual 25G up to 45 days before planting corn on medium- and fine-textured soils in CO, IL, IN, IA, KS, KY, MN, MO, MT, NE, ND, SD, TN, WI, and WY. Apply 2/3 the recommended broadcast rate of Dual 25G from Table 1 as a split treatment 30-45 days before planting and the remainder immediately before planting, or at planting. Applications less than 30 days before planting may be made either as a split or as a single treatment. Apply 8 lbs./A on coarse soils not more than 2 weeks before planting. If weeds are present at the time of treatment, apply a labeled contact herbicide (for example, Gramoxone® or Roundup®). Observe the directions for use, precautions, and restrictions on the label of the contact herbicide. To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be diminished. To avoid reduced weed control, do not apply to frozen soil as rainfall may change the pattern of the Dual granules. Injury may occur from movement of Dual 25G into the planter slit if the slit is not properly closed during planting.

On medium- and fine-textured soils with minimum- or no-tillage systems in DE, MD, MI, NY, OH, PA, VA, and WV, preplant surface applications may be applied following the directions for use above. If the amount of rainfall results in unsatisfactory length of weed control following the earlier treatment, a post-emergence application of an appropriately labeled broadleaf and/or grass weed herbicide could be used, i.e., AAtrex, 2,4-D, Banvel, Basagran®, bromoxynil (Brominal® or Buctril®). Observe all directions for use, precautions and limitations on the label of the postemergence herbicide.

Preemergence: Broadcast Dual 25G at the appropriate rate from Table 1 during or after planting, before weeds emerge, or after weeds present have been killed with a labeled contact. Injury may occur from movement of Dual 25G into the planter slit if the slit is not properly closed during planting.

Note: Do not apply more than the equivalent of 24 lbs. of Dual 25G/A during any one year, or illegal residues may result. This includes both Dual 25G and Dual 8E (1 pt. of Dual 8E equals 4 lbs. of Dual 25G).

Peanuts

Dual 25G Single Applications - All Peanut Growing Areas

Apply Dual 25G either preplant incorporated, postplant incorporated, preemergence or lay-by, using the appropriate rate

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specified below. Preplant Incorporated: Broadcast Dual 25G to the soil surface and incorporate into the top 1-2 inches of soil before planting using a finishing disk, harrow, rolling cultivator, or similar implement capable of providing uniform 1-2 inch incorporation. Use a preplant incorporated application if furrow irrigation is to be used, or when a period of dry weather after application is expected. If crop will be planted on beds, apply and incorporate Dual 25G after bed formation. Postplant Incorporated: Broadcast or band Dual 25G to the soil surface and shallowly incorporate into the soil after planting, but before peanut germination. Incorporation depth and incorporating implements must be kept above the seed or seed will be damaged. Preemergence: Broadcast or band Dual 25G to the soil surface during planting (behind the planter) or after planting, but before weeds or crop emerge. Lay-by: Broadcast or band Dual 25G to the soil surface after the last normal cultivation. Do not apply when peanuts are wet with dew or rain.

Apply Dual 25G preplant incorporated, postplant incorporated, preemergence or lay-by at a broadcast rate of 6-12 lbs. per acre in the Southeast\* or 5-8 lbs. per acre in OK, TX and NM.

\*In the Southeast, use 8-12 lbs. per acre and apply preemergence for partial control of Florida beggarweed.

Note: Dual 25G may be applied as directed after any of the following preplant incorporated herbicides when used according to their label recommendations: Balan® at 3-4 qts. per acre; Treflan® at 1 pt. per acre; or Vernam® at 2.3-3 pts. per acre.

Dual 25G Multiple Applications - Southeast Only (AL, FL, GA, NC, SC or VA):

Where weed pressure is heavy or where species difficult to control are expected, Dual 25G is most effective when used in multiple applications.

At application timings listed below, apply Dual 25G at a broadcast rate of 6-12 lbs. per acre.

1st Application: Apply Dual 25G preplant incorporated as directed under Dual 25G Single Applications. Dual 8E may be substituted as directed on that label.

2nd Application: Broadcast or band Dual 25G any time from preemergence up to "ground cracking" for control of weeds not yet emerged. Refer to General Information for a list of weeds controlled.

3rd Application: Apply Dual 25G lay-by as directed under Dual 25G Single Applications. Use only when late germinating weeds are expected to be a problem.

Notes: (1) Do not apply more than the equivalent of 24 lbs. of Dual 25G per acre during any one year or illegal residues may result. This includes both Dual 25G and Dual 8E (1 pts. of Dual 8E equals 4 lbs. of Dual 25G). (2) Do not graze or feed peanut forage or fodder to livestock for 30 days following application and (3) Do not apply within 90 days of harvest, or illegal residues may result.

Soybeans

For control of annual grasses and broadleaf weeds in the General Information section, apply Dual 25G either preplant surface, preplant incorporated, or preemergence to soybeans before weeds emerge.

Conventional Tillage

Preplant Incorporated: Broadcast Dual 25G to the soil surface and incorporate in the top 2 inches of soil within 14 days before planting using a finishing disk, harrow, or other appropriate tillage equipment at the appropriate rate from Table 2.

Preemergence: Band or broadcast Dual 25G to the soil surface during or after planting and before weeds emerge using the appropriate rate from Table 2. For band treatment, apply granules behind the press wheel.

Table 2: ✓ Dual 25G - Soybeans\*

Soil texture	Broadcast rate per acre	
	Less than 3% organic matter	3-6%** organic matter
<b>COARSE:</b> Sand, loamy sand, sandy loam	6-8 lbs.	8 lbs.
<b>MEDIUM:</b> Loam, silt loam, silt	8-10 lbs.	8-10 lbs.
<b>FINE:</b> Silty clay loam, sandy clay loam, silty clay, sandy clay, clay loam, clay	8-10 lbs.	10-12 lbs.
Muck or peat soils	DO NOT USE	

\*Dual 25G may be used sequentially in place of Dual 8E with Sencor®/Lexone®, Lorox®, or Amiben® applied at the tank mix rate specified on the respective product labels.

\*\*Dual 25G may be used up to 16 lbs./A on soils having a high organic matter content (greater than 6%).

### Reduced-Tillage and No Tillage

Preplant Surface Applied: Broadcast Dual 25G up to 45 days before planting soybeans on medium- and fine-textured soils in CO, IL, IN, IA, KS, KY, MN, MO, MT, NE, ND, SD, TN, WI, and WY. Apply 2/3 the recommended broadcast rate of Dual 25G as a split treatment 30-45 days before planting and the remainder immediately before planting, or at planting. Applications less than 30 days before planting may be made either as a split or as a single treatment. Apply 8 lbs./A on coarse soils not more than 2 weeks before planting. If weeds are present at the time of treatment apply a labeled contact herbicide (for example, Gramoxone or Roundup). Observe the directions for use, precautions, and restrictions on the label of the contact herbicide. To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be diminished. To avoid reduced weed control, do not apply to frozen soil as rainfall may change the pattern of the Dual granules. Injury may occur from movement of Dual 25G into the planter slit if the slit is not properly closed during planting.

Preemergence: Broadcast Dual 25G at the appropriate rate from Table 2 during or after planting, before weeds emerge, or after weeds present have been killed with a labeled contact. Injury may occur from movement of Dual 25G into the planter slit if the slit is not properly closed during planting.

Potatoes

Apply Dual 25G either incorporated, preemergence, or after hilling/lay-by according to the directions specified below for control of weeds listed under the General Information section. Within a rate range, use the lower rate on soils relatively coarse-textured or low in organic matter; use the higher rate on soils relatively fine-textured or high in organic matter. Effectiveness will be reduced if later cultural practices expose untreated soil.

Incorporated: Apply Dual 25G at 6-12 lbs. per acre to the soil and incorporate into the surface of the soil 1-2 inches using appropriate tillage equipment. Planting and later cultural practices should not bring untreated soil to the surface. Post-plant application may be made any time after planting to drag-off, but before potato emergence. Incorporate using an implement that distributes Dual within the top 1-2 inches of soil. Do not damage potato seed pieces or sprouts with incorporation equipment.

Preemergence: Apply Dual 25G at 6-12 lbs. per acre either after planting as a preemergence, delayed preemergence, after drag-off or hilling treatment, but before weeds emerge. Up to 16 lbs. per acre of Dual 25G alone may be used where soil organic matter is greater than 6%.

After Hilling/Lay-by: Apply 10 lbs. per acre of Dual 25G after hilling/at lay-by to control Dual sensitive weeds for remainder of the growing season. This application will not control emerged weeds. It may be applied over a previous Dual 25G application, but do not apply more than 22 lbs. of Dual 25G per acre in a single crop season.

Precautions: (1) Do not use on muck or peat soils. (2) If cool, wet soil conditions occur after application, Dual may delay maturity and/or reduce yield of Superior and other early maturing potato varieties. (3) Do not use on sweet potatoes or yams. (4) Do not apply both preemergence and incorporated treatments.

Notes: (1) To avoid illegal residues, potatoes treated with Dual should not be harvested within 60 days after a planting to drag-off application, or within 40 days after a lay-by application. (2) Do not use in Kern County, California.

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Rotational Crops

(1) If crop treated with Dual 25G is lost, any crop on this label may be replanted immediately. Do not make a second broadcast application of Dual 25G. If the original application was banded and the second crop is planted in the untreated row middles, a second banded treatment may be applied. (2) Barley, oats, rye, or wheat may be planted 4 1/2 months following application. (3) Any crop on this label in addition to cotton, pod crops, safflower, grain sorghum\*, stone fruits, tree nuts, root crops, barley, buckwheat, milo, oats, rice, rye and wheat may be planted in the spring following treatment. Do not graze or feed forage or fodder from cotton to livestock. All other rotational crops may be planted 18 months after application. (4) Any crop on this label, in addition to cotton, pod crops, safflower, sorghum, stone fruits and tree nuts may be planted in the spring following a lay-by treatment or multiple treatments applied the previous season. All other rotational crops may be planted 18 months after a lay-by application.

\*provided the seed has been properly treated with Concep® seed protectant.

Storage and Disposal

Pesticide Storage and Disposal

PR 83-3

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Store in a dry place. Do not contaminate water, food, or feed by storage, disposal, or cleaning of equipment. Open dumping is prohibited. Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of federal law. If these wastes cannot be used according to label instructions contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

Container Disposal

Completely empty bag into application equipment. Dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. Stay out of smoke from burning bags.

For minor spills, follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call (919) 292-7100 day or night.



Precautionary StatementsHazards to Humans and Domestic Animals

## CAUTION

The active ingredient, metolachlor, may cause skin sensitization reactions in certain individuals. Wear protective clothing (coveralls and gloves) while handling or using this product. Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing dust. Causes eye irritation. Avoid contact with eyes, skin or clothing. Do not contaminate food or feed.

Statement of Practical Treatment:

- If in eyes: Flush eyes with plenty of water. Call a physician if irritation persists.
- If on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.
- If inhaled: Move to fresh air.
- 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.

Environmental Hazards

Cover or incorporate granules that are spilled during loading or are visible on soil surface in turn areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

Groundwater and Surface Water Advisory

Metolachlor has been identified in limited sampling of groundwater and there is the possibility that it may leach through the soil to groundwater, especially where soils are coarse and groundwater is near the surface. Following application and during rainfall events that cause runoff, metolachlor may reach surface water bodies including streams, rivers and reservoirs.

Care must be taken using this product to prevent spills or improper disposal of excess pesticide granules.

Amiben® trademark of Union Carbide Agricultural Products, Inc.

AAtrex® trademark of CIBA-GEIGY for atrazine

Balan® trademark of Elanco Products for benefin

Banvel® trademark of Velsicol Chemical Corporation for dicamba

Basagran® trademark of BASF Company for bentazon

Bladex® trademark of Shell Chemical Company for cyanazine

Brominal® trademark of Union Carbide Corporation for bromoxynil

Buctril® trademark of Rhone-Poulenc Chemical Company for bromoxynil

( Concep® trademark of CIBA-GEIGY  
U.S. Patent No. 4,070,389

Gramoxone® trademark of ICI Americas for paraquat

Lexone® trademark of E. I. duPont de Nemours and Co. for metribuzin

Lorox® trademark of E. I. duPont de Nemours and Co. for linuron

Princep® trademark of CIBA-GEIGY for simazine

Roundup® trademark of Monsanto Company for glyphosate herbicide

Sencor® trademark of the Parent Company of Farbenfabriken Bayer GmbH, Leverkusen, for metribuzin

( Treflan® trademark of Elanco Products for trifluralin

Vernam® trademark of Stauffer Chemical Company for vernolate

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Agricultural Division  
CIBA-GEIGY Corporation  
Greensboro, North Carolina 27419

CGA 49L23H - multi-wall bag  
CGA 49L34D - metallized sack

February 4, 1987  
Revised June 15, 1987 -  
Metolachlor Reg. Standard