

PM23
100-623
Pg 1 of 22

Ms. Karen S. Stumpf
Ciba-Geigy Corporation
Agricultural Division
P.O. Box 18300
Greensboro, NC 27419

JUL 13 1987

Dear Ms. Stumpf:

Subject: Revised Labeling: Metolachlor Registration Standard
Eicop 4.5L Herbicide
EPA Registration No. 100-623
Your Submission Dated June 15, 1987

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the following comments. A stamped copy of the label is enclosed.

As labels are printed:

- Add the required text concerning chemigation systems connected to public water systems described in FR Notice 87-1, Section VI. A., 1. and 2., plus the remainder of text under 5. These items are in addition to the statements for sprinkler irrigation taken from Section VII. Send a copy of the supplemental literature published by Ciba-Geigy referred to in the labeling.

We agree that the rotational crop statement on the draft labeling remains acceptable.

Sincerely yours,

Richard F. Mountfort *RFM*
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (TS-767C)

Enclosure

94958:I/P:Mountfort:MF-10:KENCO:7/9/87:7/20/87:cdb:sjh:lisa:ak:odb:lisa:cdb

CONCURRENCES

SYMBOL	ORIGINATOR							
SURNAME								
DATE								

OFFICIAL FILE COPY

(Front Cover of Removable Booklet)

✓
Bicep® 4.5L

Herbicide

For weed control in field corn

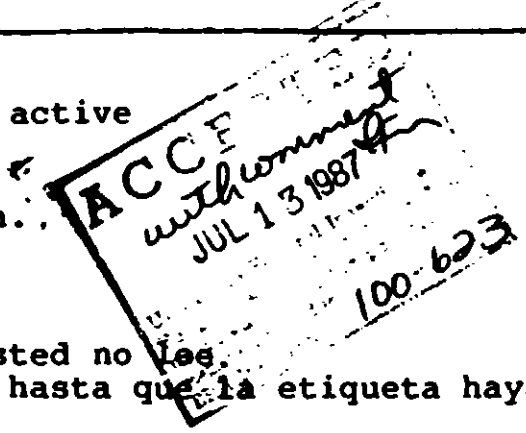
2 1/2 Gallons
U.S. Standard Measure

Active Ingredients:

Atrazine: 2-chloro-4-ethylamino-6-isopropylamino-s-triazine	17.39%
Atrazine related compounds	0.91%
Metolachlor: 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl) acetamide	31.80%
<u>Inert Ingredients:</u>	<u>49.90%</u>
<u>Total:</u>	<u>100.0%</u>

Bicep 4.5L contains 4.5 lbs. active ingredients per gallon.

Keep Out of Reach of Children.



WARNING/AVISO

PRECAUTION AL USUARIO: Si usted no lee inglés, no use este producto hasta que la etiqueta haya sido explicado ampliamente.

See additional precautionary statements at end of label booklet.

EPA Reg. No. 100-623
EPA Est. 100-LA-1

Bicep® trademark of CIBA-GEIGY
U.S. Patent No. 3,937,730 (metolachlor)

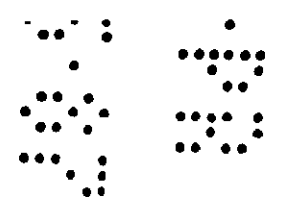
See directions for use inside booklet.

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Agricultural Division
CIBA-GEIGY Corporation
Greensboro, North Carolina 27419

CGA 56L5B

CIBA-GEIGY
BICP4-5L/F2



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.

Do not apply this product in such a manner as to directly or through drift 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 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 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 sprays have dried, and appropriate actions to take in case of accidental exposure as described under Precautionary Statements on 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: "WARNING. Area treated with Bicep 4.5L on (date of application). Do not enter without appropriate protective clothing until sprays have dried. 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."

Bicep 4.5L is a selective herbicide recommended as a preplant incorporated, preemergence surface-applied, or early postemergence treatment for control of most annual grasses and broadleaf weeds in field corn. This product may be tank mixed with Dual® 8E, AAtrex® 4L (4LC, 80W, Nine-O®), or Princep® 4L (80W or Caliber® 90) for weed control in conventional tillage corn. This product may also be tank mixed with either Gramoxone® or Roundup® alone or in combination with Princep, in minimum-tillage or no-tillage corn.

Precaution: Under high soil moisture conditions prior to crop emergence, injury may occur following the use of Bicep 4.5L. The crop will normally outgrow this effect.

Bicep 4.5L alone or in tank mixture with AAtrex, Dual, Princep, paraquat or Roundup may be applied on field corn in water or fluid fertilizer with the exceptions noted. Apply the early postemergence treatment in water only. This product may also be applied on field corn in irrigation water through center pivot irrigation systems.

Dry weather following preemergence application of Bicep 4.5L or a tank mixture may reduce effectiveness. Cultivate if weeds develop in conventional tillage corn.

Thoroughly clean sprayer prior to use. Do not use a sprayer contaminated with 2,4-D or other materials as crop damage or sprayer clogging may result.

Note: (Bicep 4.5L Alone and in Tank Mixtures): Use only on field corn. Do not use on sweet corn and popcorn.

Mixing Instructions

Shake well before using. Bicep 4.5L is a liquid that may be mixed with water or fluid fertilizer and applied as a spray. Bicep 4.5L may also be sprayed onto dry bulk granular fertilizer and applied with the granular fertilizer.

Dry Bulk Granular Fertilizers

Many dry bulk granular fertilizers may be impregnated or coated with Bicep 4.5L and incorporated into the soil to control weeds in corn.

Labels, supplementary literature, and precautions regarding rates per acre, approved crops, soil texture, application, incorporation, crop rotation and other directions must be followed for Bicep 4.5L.

All individual state regulations relating to dry bulk granular fertilizer blending, registration, labeling and application are the responsibility of the individual and/or company selling the herbicide/fertilizer mixture.

Apply 200-700 pounds per acre of dry granular fertilizer impregnated with Bicep 4.5L.

Do not impregnate Bicep 4.5L on ammonium nitrate, potassium nitrate, or sodium nitrate either alone or in blends with other fertilizers.

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Do not impregnate Bicep 4.5L with a single superphosphate (0-20-0) or treble superphosphate (0-46-0).

Do not use Bicep 4.5L on straight limestone, since absorption will not be achieved. Fertilizer blends containing limestone can be impregnated.

Prepare the granular herbicide/fertilizer mixtures by using any closed drum, belt, ribbon, or other commonly used dry bulk fertilizer blender. Nozzles used to spray Bicep 4.5L onto the fertilizer must be placed to provide uniform spray coverage.

If the herbicide/fertilizer mixture is too wet, use a highly absorptive powder, such as Microcel E (Johns-Manville Products Corporation), diatomaceous earth or finely powdered clay, to obtain a dry free-flowing mixture. Add the absorptive powder separately and uniformly to the herbicide/fertilizer mixture and blend to form a suitable free-flowing mixture. Generally, less than 2% by weight of absorptive powder will be needed.

Calculate amounts of Bicep 4.5L by the following formula:

$$\frac{2,000 \text{ lbs. of fertilizer per acre}}{\text{pts. of Bicep 4.5L per acre}} \times \text{pts. of Bicep 4.5L per ton of fertilizer}$$

For best results, apply this mixture uniformly to soil with properly calibrated equipment immediately after blending, and incorporate according to directions.

Precaution: Do not use on crops where bedding occurs following the herbicide/fertilizer application or injury may occur.

Application in Water or Fluid Fertilizers

Bicep 4.5L Alone: Fill the spray tank one-half to three-fourths full with water or fluid fertilizer, add the proper amount of Bicep 4.5L, then add the rest of the water or fluid fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform suspension.

Tank Mixtures: Fill the spray tank one-half to three-fourths full with water or fluid fertilizer, add the proper amount of Bicep 4.5L, then add AAtrex or Princep, Dual, Gramoxone or Roundup, and finally add the rest of the water or fluid fertilizer. Provide sufficient agitation during mixing and application to maintain a uniform suspension.

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Check the compatibility of Bicep 4.5L and tank mixtures with AAtrex, Dual, Princep, Gramoxone or Roundup in fluid fertilizer by mixing proportionate quantities in a small container before mixing in the spray tank. If the 3.5 qts. per acre rate is to be applied in 25 gals. of fluid fertilizer per acre, mix 3.5 teaspoons of Bicep 4.5L in 1 pt. of fertilizer. Use 2 teaspoons of AAtrex 4L (4LC) or Princep 4L, 4/5 teaspoon of Dual 8E, 1 teaspoon of Gramoxone, or 4 teaspoons of Roundup when these products are to be used in the combinations. When AAtrex 80W or Nine-O, or Princep 80W or Caliber 90 is used in place of AAtrex 4L or Princep 4L, use 1.4 teaspoons of 80W, Nine-O, or Caliber 90 for each 1/2 teaspoon of 4L. For a different spray volume and/or herbicide rate, make appropriate changes in the proportion of ingredients in the test. After thorough mixing, let stand for 5 minutes. If the herbicide/fertilizer combination remains mixed or can be remixed readily, the mixture is compatible and can be sprayed.

Application Procedures

Ground Application: For uniform distribution, use fan-type nozzles. Screens in nozzles and in suction and in-line strainers should be no finer than 50-mesh. Use a pump with capacity to (1) maintain 35-40 psi at the nozzles, and (2) provide sufficient agitation in tank to keep mixture in suspension. Unless otherwise specified, use a minimum of 10 gals. of spray mixture per acre. Rinse sprayer thoroughly with clean water immediately after use.

For band applications, calculate amount to be applied per acre as follows:

$$\frac{\text{band width in inches}}{\text{row width in inches}} \times \frac{\text{broadcast rate}}{\text{per acre}} = \frac{\text{amount needed}}{\text{per acre of field}}$$

Aerial Application (for Bicep 4.5L alone): Use aerial application only where broadcast applications are specified. Apply a minimum of 1 gal. of water for each 1 gal. of this product applied per acre, but for rates below 1 gal./acre, use in sufficient water to equal 2 gals./acre of total spray. Avoid applications under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur. In order to assure that spray will be controllable within the target area when used according to label directions, make applications at a maximum height of 10 ft., using low drift nozzles at a maximum pressure of 40 psi, and restrict application to periods when wind speed does not exceed 10 mph. To assure that spray will

not adversely affect adjacent sensitive non-target plants, apply Bicep 4.5L by aircraft at a minimum upwind distance of 400 ft. from sensitive plants.

Avoid application to humans or animals. Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin, and should wash thoroughly before eating and at the end of each day's operation.

Center Pivot Irrigation Application: Bicep 4.5L alone or in tank mixture with other herbicides which are registered for center pivot application may be applied in irrigation water preemergence (after planting but before weeds or crop emerge) at rates recommended on this label. Apply this product only through a center pivot irrigation system. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts, or refer to supplemental literature published by CIBA-GEIGY. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

PR 87-1
VI A 102

Operating Instructions:

1. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water-source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

- ✓ 4. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- ✓ 5. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- ✓ 6. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
- ✓ 7. Do not apply when wind speed favors drift beyond the area intended for treatment.
- ✓ 8. Prepare a mixture with a minimum of 1 part of water to 1 part herbicide(s) and inject this mixture into the center pivot system. Injecting a larger volume of a more dilute mixture per hour will usually provide more accurate calibration of metering equipment. Maintain sufficient agitation to keep the herbicide in suspension.
- ✓ 9. Meter into irrigation water during entire period of water application.
- ✓ 10. Apply in 1/2-1 inch of water. Use the lower water volume (1/2 inch) on coarser-textured soils and the higher volume (1 inch) on finer-textured soils. More than 1 inch of water at application may reduce weed control by moving the herbicide below the effective zone in the soil.

✓ Precautions for center pivot applications: Where sprinkler distribution patterns do not overlap sufficiently, unacceptable weed control may result. Where sprinkler distribution patterns overlap excessively, crop injury may result.

✓ Within rate ranges in all tables on this label, use the lower rate on soil relatively coarse-textured or low in organic matter; use the higher rate on soil relatively fine-textured or high in organic matter.

Bicep 4.5L Applied AlonePreplant Incorporated or PreemergenceWeeds
Controlled

barnyardgrass
(watergrass)
browntop
panicum
crabgrass
fall panicum
giant foxtail
goosegrass
green foxtail
red rice
signalgrass
(Brachiaria)
southwestern
cupgrass
witchgrass
yellow foxtail
yellow nutsedge

black nightshade
carpetweed
common purslane
Florida pusley
galinsoga
hairy nightshade
lambsquarters
pigweed
ragweed
smartweed

Weeds
Partially Controlled

cocklebur
morningglory
sandbur
seedling johnsongrass
velvetleaf
volunteer sorghum

Application: Apply Bicep 4.5L preplant incorporated or pre-emergence using the appropriate rates from Table 1. Preplant Incorporated: Apply to the soil and incorporate into the top 2 inches of soil within 14 days before planting using a finishing disk, harrow, rolling cultivator, or similar implement capable of providing uniform 2 inch incorporation. Use a preplant incorporated application if furrow irrigation is used or when a period of dry weather application is expected. If crop is to be planted on beds, apply and incorporate after bed formation. Preemergence: Apply to the soil surface at planting (behind the planter), or after planting but before weeds or crop emerge.

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Table 1: Bicep 4.5L Preplant Incorporated or Preemergence

Soil texture	Broadcast rate per acre	
	Less than 3% organic matter	3% organic matter or greater
COARSE: Sand, loamy sand, sandy loam	2 qts.	2.5 qts.
MEDIUM: Loam, silt loam, silt	2.5 qts.	3 qts.
FINE: Silty clay loam, sandy clay loam, silty clay, sandy clay, clay loam, clay	3 qts.	3-3.5 qts.
Muck or peat soils	DO NOT USE	

*For yellow nutsedge control on fine-textured soils above 3% organic matter: Apply 3.5 qts. of Bicep 4.5L per acre.

Rotational Crops: (1) If treated crop is lost due to poor germination, hail, flood, insects, etc., corn may be replanted immediately or sorghum may be replanted immediately provided the seed has been properly treated with Concep®. Do not make a second broadcast application. 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) Corn, sorghum, soybeans, cotton, or peanuts may be planted the spring following treatment. Do not graze or feed forage or fodder from cotton to livestock, or illegal residues may result. Injury may occur to soybeans planted the year following application on soils having a calcareous surface layer including but not limited to those found in north-central and northwest Iowa; south-central, western, and southwest Minnesota; northeast Nebraska; North Dakota; and eastern South Dakota. (3) If applied after June 10, do not rotate with crops other than corn or sorghum the next year, or crop injury may occur. (4) In the High Plains and Intermountain areas of the West where rainfall is sparse and erratic or where irrigation is required, use only

when corn or sorghum is to be planted the following year, or a crop of untreated corn or sorghum is to precede other rotational crops. (5) Small grains may be planted 15 months following treatment. (6) All other crops may be planted 18 months after application.

Postemergence

Weeds

Controlled

barnyardgrass
(watergrass)
crabgrass
fall panicum
giant foxtail
green foxtail
yellow foxtail

jimsonweed
kochia
lambsquarters
mustard
pigweed
prickly sida
purslane
ragweed
smartweed

Weeds

Partially Controlled

cocklebur
morningglory
velvetleaf
yellow nutsedge

Application: Apply early postemergence using the appropriate rate from Table 2. Apply this treatment before grass and broad-leaf weeds pass the 2-leaf stage and before corn exceeds 5 inches in height. Application to weeds larger than the 2-leaf stage will generally give unsatisfactory control. Occasional corn leaf burn may result, but this should not affect later growth or yield. Do not apply postemergence in fluid fertilizer, or severe crop injury may occur.

Table 2: Postemergence

Soil texture	Broadcast rate per acre
COARSE: Sand, loamy sand, sandy loam	2.5 qts.
MEDIUM: Loam, silt loam, silt	3 qts.
FINE: Sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	3-3.5 qts.*

*For better control of yellow nutsedge on fine-textured soils above 3% organic matter, apply 3.5 qts. of Bicep 4.5L per acre.

Rotational Crops: Follow the preceding crop rotation instructions for Bicep 4.5L Preplant Incorporated or Preemergence.

Bicep 4.5L Combinations

Tank Mixture with AAtrex, Princep, or Dual 8E - Conventional Tillage

AAtrex (4L, 4LC, 80W, or Nine-0): Add up to 1 qt. of AAtrex 4LC or 4LC (1.25 lbs. 80W or 1.1 lbs. Nine-0) per acre to the rate of Bicep 4.5L recommended in Table 1 in areas where heavy infestations of broadleaf weeds claimed on this label or cocklebur, morningglory, or velvetleaf are expected.

Dual 8E: Add up to 1 1/2 pt. of Dual 8E per acre to the rate of Bicep 4.5L recommended in Table 1 when heavy infestations of yellow nutsedge, sandbur, or seedling johnsongrass are expected.

Princep (4L, 80W, or Caliber 90): Add up to 1 qt. of Princep 4L (1.25 lbs. 80W or 1.1 lbs. Caliber 90) per acre to the rate of Bicep 4.5L recommended in Table 1 in the northeastern U.S. where heavy infestations of crabgrass or fall panicum are expected.

Tank Mixtures of Bicep 4.5L or Bicep 4.5L plus Princep, with Gramoxone or Roundup for Minimum-Tillage or No-Tillage Systems

In minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides Gramoxone or Roundup may be tank mixed with Bicep 4.5L alone or with Bicep 4.5L plus Princep. When used as directed, the Gramoxone portion of the tank mixture controls most emerged annual weeds and suppresses many perennial weeds. Roundup combinations will control emerged annual and perennial weeds when applied as directed on the Roundup label. The Bicep 4.5L portion of the tank mixture provides preemergence control of the weeds listed on this label in the Bicep 4.5L Alone section for corn. The addition of Princep enhances preemergence control of crabgrass and fall panicum.

Application: Apply before, during, or after planting but before corn emerges, at the appropriate rate in Table 3. Up to 1 qt. of Princep 4L (1.25 lbs. 80W or 1.1 lbs. Caliber 90) per acre may be added to the rate of Bicep 4.5L recommended in Table 3 in the northeastern U.S. where heavy infestations of crabgrass or fall panicum are expected. Add Gramoxone or Roundup at the following broadcast rates:

Gramoxone: 1.5-2.5 pts. per acre plus 8 oz. of X-770 Spreader per 100 gals. of spray mixture. Use the lower rate for control of annual weeds less than 4 inches tall and the higher rate for weeds 4-6 inches tall. This treatment will not consistently control weeds taller than 6 inches.

Roundup: 1.5 qts. per acre for control existing annual weeds, or 2-4 qts. per acre for existing perennial weeds. See the Roundup label for weeds controlled and recommended rates for specific weeds.

Apply 20-60 gals. of water or fluid fertilizer per acre with conventional spray equipment.

Table 3: Bicep 4.5L for Minimum-Tillage or No-Tillage Field Corn

Soil texture	Broadcast rate per acre
COARSE: Sand, loamy sand, sandy loam	2.5 qts.
MEDIUM: Loam, silt loam, silt	3 qts.
FINE: Sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	3-3.5 qts.*
Muck or peat soils	DO NOT USE

*For yellow nutsedge control on fine-textured soils above 3% organic matter, apply 3.5 qts. of Bicep 4.5L per acre.

Rotational Crops: Follow the crop rotation instructions in the Bicep 4.5L Alone section for field corn.

Endangered Species Restrictions

The following restrictions apply to use of this product after February 1, 1988.

Before using this pesticide on corn or sorghum in the counties listed below, you must obtain the PESTICIDE USE BULLETIN FOR PROTECTION OF ENDANGERED SPECIES for the county in which the product is to be used. The bulletin is available from your County Extension Agent, State Fish and Game Office, or your pesticide dealer. Use of this product in a manner inconsistent

with the PESTICIDE USE BULLETIN FOR PROTECTION OF ENDANGERED SPECIES is a violation of Federal laws.

ALABAMA: COLBERT, GREENE, JACKSON, LAMAR, LAUDERDALE, LIMESTONE, MADISON, MARSHALL, MORGAN, PICKENS AND SUMTER

ARIZONA: GRAHAM, MARICOPA, MOHAVE, PIMA, PINAL AND SANTA CRUZ

ARKANSAS: BENTON, CLAY, CLARK, CROSS, LAWRENCE, LEE, POINSETTE, POLK, RANDOLPH, SHARP AND ST. FRANCIS

CALIFORNIA: BUTTE, COLUSA, GLENN, IMPERIAL, MERCED, MODOC, RIVERSIDE, SACRAMENTO, SOLANO, SUTTER, TEHEMA AND YOLO

FLORIDA: BROWARD, DADE, GLADES, AND PALM BEACH

KENTUCKY: BALLARD, BUTLER, EDMUNDSON, GREEN, HART, JACKSON, LAUREL, LIVINGSTON, MARSHALL, MCCrackEN, MCCREARY, PULASKI, ROCKCASTLE, TAYLOR, WARREN AND WAYNE

MISSISSIPPI: CLAIBORNE, COPIAH, HINDS, ITAWAMBA, LOWNDES, MONROE AND NOXUBEE

MISSOURI: BARRY, BENTON, CAMDEN, CHRISTIAN, DALLAS, GREENE, HICKORY, JASPER, LAWRENCE, MILLER, NEWTON, OSAGE, POLK, ST. CLAIR, STONE AND WEBSTER

NEVADA: CLARK

NEW MEXICO: CHAVES, DEBACA AND EDDY

NORTH CAROLINA: EDGECOMBE, NASH AND PITT

OHIO: PICKAWAY

OKLAHOMA: DELAWARE, MCCURTAIN AND PUSHMATAHA

OREGON: LAKE

TENNESSEE: BEDFORD, BLOUNT, CLAIBORNE, DECATUR, FRANKLIN, HANCOCK, HARDIN, HICKMAN, KNOX, LAWRENCE, LINCOLN, LOUDON, MARSHALL, MAURY, MEIGS, MONROE, RHEA, ROANE, SCOTT, SEQUATCHIE, SMITH, SULLIVAN AND WAYNE

TEXAS: RASTROP, BURLESON, COMAL, HARRIS, HAYS, JEFF DAVIS, PECOS AND REEVES

UTAH: UTAH AND WASHINGTON

VIRGINIA: LEE, RUSSELL, SCOTT, SMYTH, TAZEWell, WASHINGTON AND WISE.

PR Notice 83-3

Storage and Disposal

Pesticide Disposal

Do not contaminate water, food or feed by storage or disposal, or cleaning of equipment. Open dumping is prohibited. Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of federal law. Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to federal, state or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office.

Container Disposal

Do not reuse empty container. Triple rinse (or equivalent), puncture and dispose of in a sanitary landfill, or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep out of smoke.

For minor spills, leaks, etc., 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 Statements

Hazards to Humans and Domestic Animals

WARNING ✓

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear safety glasses. Harmful if swallowed, inhaled, or absorbed through skin. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Statement of Practical Treatment:

If in eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

Continued ... 16

If swallowed: Drink promptly a large quantity of milk, egg white, gelatin solution, or if these are not available, large quantities of water. Avoid alcohol.

If inhaled: Remove victim to fresh air.

If on skin: Wash with plenty of soap and water. Get medical attention.

Note to Physician: There are no specific antidotes for the active ingredients in Bicep 4.5L. Induce emesis or lavage stomach. Give a saline laxative and supportive therapy.

Environmental Hazards

Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes). Do not contaminate water by cleaning of equipment or disposal of wastes. This pesticide contains atrazine which has been shown to be toxic to aquatic invertebrates. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas.

Groundwater and Surface Water Advisory

Bicep II contains both the active ingredients atrazine and metolachlor.

Atrazine can travel (seep or leach) through soil and can enter groundwater which may be used as drinking water. Atrazine has been found in groundwater. Users are advised not to apply atrazine to sand and loamy sand soils where the water table (groundwater) is close to the surface and where these soils are very permeable, i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

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 back siphoning into wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.

Check valves or antisiphoning devices must be used on all mixing and/or irrigation equipment.

AAtrex® trademark of CIBA-GEIGY for atrazine

Bicep® trademark of CIBA-GEIGY
U.S. Patent No. 3,937,730 (metolachlor)

Caliber® 90 trademark of CIBA-GEIGY

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

Dual® trademark of CIBA-GEIGY for metolachlor
U.S. Patent No. 3,937,730

Gramoxone® trademark of ICI Americas for paraquat

Nine-O® trademark of CIBA-GEIGY

Princep® trademark of CIBA-GEIGY for simazine

Roundup® trademark of Monsanto Company for glyphosate herbicide

X-77® trademark of KALO Laboratories, Inc.

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Agricultural Division
CIBA-GEIGY Corporation
Greensboro, North Carolina 27419

CGA 56L5B

(Container Label)

Bicep® 4.5L

Herbicide

For weed control in field corn

2 1/2 Gallons
U.S. Standard Measure

Active Ingredients:

Atrazine: 2-chloro-4-ethylamino-6-isopropylamino-s-triazine	17.39%
Atrazine related compounds	0.91%
Metolachlor: 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl) acetamide	31.80%
Inert Ingredients:	49.90%
Total:	100.0%

Bicep 4.5L contains 4.5 lbs. active ingredients per gallon.

Keep Out of Reach of Children.

WARNING/AVISO

PRECAUCIÓN AL USUARIO: Si usted no lee inglés, no use este producto hasta que la etiqueta haya sido explicado ampliamente.

See directions for use in attached booklet.

EPA Reg. No. 100-623

EPA Est. 100-LA-1

-18-

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Precautionary StatementsHazards to Humans and Domestic Animals

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear safety glasses. Harmful if swallowed, inhaled, or absorbed through skin. Avoid breathing vapor or spray mist. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

Statement of Practical Treatment:

If in eyes: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention.

If swallowed: Drink promptly a large quantity of milk, egg white, gelatin solution, or if these are not available, large quantities of water. Avoid alcohol.

If inhaled: Remove victim to fresh air.

If on skin: Wash with plenty of soap and water. Get medical attention.

Note to Physician: There are no specific antidotes for the active ingredients in Bicep 4.5L. Induce emesis or lavage stomach. Give a saline laxative and supportive therapy.

Environmental Hazards

Do not apply directly to water or wetlands (swamps, bogs, marshes and potholes). Do not contaminate water by cleaning of equipment or disposal of wastes. This pesticide contains atrazine which has been shown to be toxic to aquatic invertebrates. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas.

Groundwater and Surface Water Advisory

Milocep contains the active ingredient metolachlor. 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

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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 when using this product to prevent back siphoning into wells, spills, or improper disposal of excess pesticide, spray mixtures, or rinsates.

Check valves or antisiphoning devices must be used on all mixing and/or irrigation equipment.

Chemigation

Refer to supplemental labeling in attached booklet for use directions on chemigation. Do not apply this product through any irrigation system unless the supplemental labeling on chemigation is followed.

Endangered Species

Refer to attached booklet for use restrictions to protect ENDANGERED SPECIES before using this product.

Container Disposal

Do not reuse empty container. Triple rinse (or equivalent), puncture and dispose of in a sanitary landfill, or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep out of smoke.

Bicep® trademark of CIBA-GEIGY
U.S. Patent No. 3,937,730 (metolachlor)

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