

# Bicep

## 4.5L

### Herbicide

For weed control in field corn

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%

**2½ Gallons**  
 U.S. Standard Measure

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 additional precautionary statements at end of label booklet.

See directions for use inside booklet.

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

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

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Agricultural Division  
CIBA-GEIGY Corporation  
Greensboro, NC 27419  
CGA 56L5B 077

## CIBA-GEIGY

### 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 (80W, Nine-0®), 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 mixtures 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

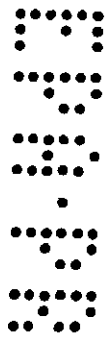
Many dry bulk granular fertilizers may be impregnated or coated with Bicep 4.5L and incorporated into the soil to control weeds in corn.

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.

PM23  
100-623  
pg 1 of 5

8/20/87



# Bicep® 4.5L

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.

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:

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

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.

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 or Princep 4L, 1/2 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:

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

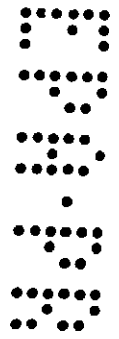
**Aerial Application (for Bicep 4.5L alone):** Use aerial application only where broadcast applications are specified. Apply a minimum of 1 gal. of water for each 1 gal. of this product applied per acre, but for rates below 1 gal./acre, use in sufficient water to equal 2 gals./acre of total spray. Avoid 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 pre-emergence (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. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless 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.

### Operating Instructions

1. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.
2. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, back-flow preventor (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3. 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.
4. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
5. 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.
6. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
7. 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.



**Bicep® 4.5L**

8. 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.
9. Do not apply when wind speed favors drift beyond the area intended for treatment.
10. 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.
11. Meter into irrigation water during entire period of water application.
12. 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 table: on this label, use the lower rate in 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 Alone**

**Preplant Incorporated or Preemergence**

<i>Weeds Controlled</i>		<i>Weeds Partially Controlled</i>
barnyardgrass (watergrass)	black nightshade	cocklebur
browntop	carpetweed	morningglory
panicum	common purslane	sandbur
crabgrass	Florida pusley	seedling
fall panicum	galinsoga	johnsongrass
giant foxtail	hairy nightshade	velvetleaf
goosegrass	lambsquarters	volunteer sorghum
green foxtail	pigweed	
red rice	ragweed	
signalgrass (Brachiaria)	smartweed	
southwestern cupgrass		
witchgrass		
yellow foxtail		
yellow nutsedge		

**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 incorporated after bed formation. **Preemergence:** Apply to the soil surface at planting (behind the planter), or after planting but before weeds or crop emerge.

**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
<b>COARSE:</b> Sand, loamy sand, sandy loam	2 qts.	2.5 qts.
<b>MEDIUM:</b> Loam, silt loam, silt	2.5 qts.	3 qts.
<b>FINE:</b> 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, 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**

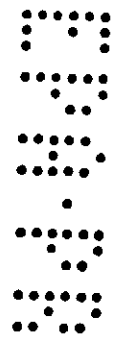
<i>Weeds Controlled</i>		<i>Weeds Partially Controlled</i>
barnyardgrass (watergrass)	jimsonweed	cocklebur
crabgrass	kochia	morningglory
fall panicum	lambsquarters	velvetleaf
giant foxtail	mustard	yellow nutsedge
green foxtail	pigweed	
yellow foxtail	prickly sida	
	purslane	
	ragweed	
	smartweed	

**Application:** Apply early postemergence using the appropriate rate from Table 2. Apply this treatment before grass and broadleaf 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
<b>COARSE:</b> Sand, loamy sand, sandy loam	2.5 qts.
<b>MEDIUM:</b> Loam, silt loam, silt	3 qts.
<b>FINE:</b> 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 Bicop 4.5L Preplant Incorporated or Preemergence.

**Bicop 4.5L Combinations**

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

**AAtrex (4L, 80W, or Nine-O):** Add up to 1 qt. of AAtrex 4L (1.25 lbs. 80W or 1.1 lbs. Nine-O) per acre to the rate of Bicop 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 1/2 pt. of Dual 8E per acre to the rate of Bicop 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 lb. 30W or 1.1 lbs. Caliber 90) per acre to the rate of Bicop 4.5L recommended in Table 1 in the northeastern U.S. where heavy infestations of crabgrass or fall panicum are expected.

**Tank Mixtures of Bicop 4.5L or Bicop 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 crop, stale sod, established sod, or previous crop residues, the contact herbicides Gramoxone or Roundup may be tank mixed with Bicop 4.5L alone or with Bicop 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 Bicop 4.5L portion of the tank mixture provides preemergence control of the weeds listed on this label in the Bicop 4.5L Alone section for corn. The addition of Princep enhances pre-emergence 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 Bicop 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-77® 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: Bicop 4.5L for Minimum-Tillage or No-Tillage Field Corn**

Soil texture	Broadcast rate per acre
<b>COARSE:</b> Sand, loamy sand, sandy loam	2.5 qts.
<b>MEDIUM:</b> Loam, silt loam, silt	3 qts
<b>FINE:</b> 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 Bicop 4.5L per acre.

**Rotational Crops:** Follow the crop rotation instructions in the Bicop 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, Poinsett, Polk, Randolph, Sharp, and St. Francis

**CALIFORNIA:** Butte, Colusa, Glenn, Imperial, Merced, Modoc, Riverside, Sacramento, Solano, Sutter, Tehama, 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, Smith, Tazewell, Washington, and Wise

**Storage and Disposal**

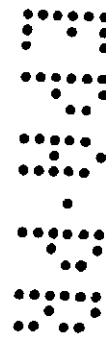
**Pesticide Disposal**

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 rinseate is a violation of Federal law. Pesticide, spray mixture, or rinseate 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.



# Bicep® 4.5L

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Agricultural Division  
CIBA-GEIGY Corporation  
Greensboro, North Carolina 27419  
CGA 56L5B 077

## 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.

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.

#### Ground Water and Surface Water Advisory

Bicep 4.5L contains both the active ingredients atrazine and metolachlor.

Atrazine can travel (seep or leach) through soil and can enter ground water which may be used as drinking water. Atrazine has been found in ground water. Users are advised not to apply atrazine to sand and loamy sand soils where the water table (ground water) 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 ground water.

Metolachlor has been identified in limited sampling of ground water and there is the possibility that it may leach through the soil to ground water, 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, spits 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.

AAIrex® 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 Agricultural Chemicals, Inc.

## Bicep® 4.5L

### Herbicide

For weed control in field corn

Active ingredients:  
Atrazine: 2-chloro-4-ethylamino-6-isopropylamino-s-triazine ..... 17.33%  
Atrazine related compounds ..... 0.91%  
Metolachlor: 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methyl-ethyl) acetamide ..... 21.88%

Inert ingredients: 49.98%  
Total: 100.00%

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

See directions for use in attached booklet.

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

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

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Agricultural Division  
CIBA-GEIGY Corporation  
Greensboro, NC 27419  
CGA 56L5B 077

## Keep Out of Reach of Children. WARNING/AVISO

PRECAUCIÓN AL USUARIO: Si usted no lee inglés, no use este producto hasta que se disponga de su propia explicación en español.

### Precautionary Statements

Hazards 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.

#### Ground Water and Surface Water Advisory

Bicep 4.5L contains both the active ingredients atrazine and metolachlor.

Atrazine can travel (seep or leach) through soil and can enter ground water which may be used as drinking water. Atrazine has been found in ground water. Users are advised not to apply atrazine to sand and loamy sand soils where the water table (ground water) 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 ground water.

Metolachlor has been identified in limited sampling of ground water and there is the possibility that it may leach through the soil to ground water, 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, spits 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) 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.

2½ Gallons  
U.S. Standard Measure

