Bicep®

6L

Herbicide

For weed control in corn and grain or forage sorghum

Active Ingredients:

Atrazine: 2-chloro-4-ethylamino-6-isopropylamino-s-triazine	27.4%
Atrazine related compounds	1.5%
Metolachlor: 2-chloro-*N*-(2-ethyl-6-methylphenyl)-*N*-(2-methoxy-1-methylethyl) acetamide	36.1%
Inert Ingredients:	35.0
Total:	100.0%

2½ Gallons
U.S. Standard Measure

Bicep 6L contains 6 lbs active ingredients per gallon.

Keep Out of Reach of Children.

Caution

See additional precautionary statements inside booklet.

EPA Reg. No. 100-645

EPA Est. 100-LA-1

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

See directions for use inside booklet

Agricultural Division
CIBA-GEIGY Corporation
Greensboro, North Carolina 27419
CGA 56L12A 024

CIBA-GEIGY

DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT [illegible] Directions for Use [illegible] Conditions of Sale and Warranty [illegible]

Conditions of Sale and Warranty

The Directions for Use [illegible]

[illegible] Directions for Use [illegible] 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. [illegible] Conditions of Sale and Warranty [illegible]

Directions for Use

[illegible]

FAILURE TO FOLLOW ALL PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR WEED CONTROL, CROP INJURY OR ILLEGAL RESIDUES

[illegible] exposure workers [illegible] treated areas [illegible] sprays have dried.

Because certain states may require more restrictive [illegible] tolerances for various crops treated with this product [illegible] 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 when warning 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: CAUTION: Area treated with Bicep 6L 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 doctor if irritation persists. Remove and wash contaminated clothing before re-use.

Bicep 6L is a selective herbicide recommended as a preplant surface-applied preplant incorporated, preemergence surface-applied, early postemergence treatment for control of most annual grasses and broadleaf weeds in corn (field corn, sweet corn, popcorn) and as a preplant surface-applied preplant incorporated or preemergence treatment for control of most annual grasses and broadleaf weeds in grain sorghum (milo) [illegible] seed [illegible] Note (Bicep 6L Alone and in Tank Mixtures) [illegible]

Mixing Instructions

Shake well [illegible] with water [illegible] may [illegible] added [illegible]

Dry Bulk Granular Fertilizers

Many [illegible] need [illegible]

[illegible] rates per acre at proved crops [illegible] for [illegible]

A [illegible] dual state regulations [illegible] fertilizer blending [illegible] the responsible [illegible] herbicide fertilizer mixture

Apply 200 450 [illegible] per [illegible] impregnated [illegible]

Do not impregnate Bicep 6L on ammonium nitrate, potassium nitrate, or sodium nitrate either alone or [illegible] other fertilizers

Do not combine Bicep 6L with a single superphosphate (20 [illegible]) or treble superphosphate (46 [illegible])

Do not use Bicep 6L on straight [illegible] will not be achieved. Fertilizer blends [illegible] can be impregnated

Prepare the granular herbicide fertilizer mixtures by [illegible] closed drum, ball, ribbon, or other commonly used dry bulk fertilizer blender. Nozzles used to spray [illegible] 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, [illegible] Attapulgite 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 dry, free-flowing mixture. Generally, less than 2% by weight absorptive will be needed

Calculate amounts of Bicep 6L [illegible]

2,000 [illegible] lbs [illegible] fertilizer

[illegible] results [illegible] equipment [illegible] incorporate according [illegible]

[illegible]

Application in Water or Fluid Fertilizers

Bicep 6L Alone. [illegible] 6L [illegible] test [illegible] uniform suspension

Tank Mixtures [illegible] then add AAtrex or [illegible] individual [illegible] test [illegible] uniform suspension

Compatibility Test: [illegible] tank mixtures [illegible] test [illegible] test [illegible] **always check compatibility each time before reuse.** [illegible] carefully [illegible] **complete** [illegible] set [illegible] equipment [illegible] samples [illegible] ingredients. Check [illegible] procedure

[illegible]

[illegible] **one** [illegible] shake [illegible]

[illegible] **both** [illegible] After [illegible] As

Dry herbicides [illegible]

Liquid herbicides [illegible]

4. After [illegible] mixtures [illegible] rates [illegible] Dry [illegible] impatibility [illegible] needed in the spray mixture by comparing the two jars. If either mixture separates, it can be remixed readily, the mixture can be sprayed as long as good agitation is used. If the mixtures are incompatible, test the following methods of improving compatibility. As a rule, the dry herbicides [illegible] after [illegible] of the incompatibility [illegible] fertilizer [illegible] wettable herbicide [illegible] mixture [illegible] incompatible [illegible] mixture

Application Procedures

Ground Application [illegible] formulation [illegible] nozzles [illegible] and the strainers should be no finer than [illegible] mesh. [illegible] pump [illegible] maintain a [illegible] nozzles and [illegible] mixture is been [illegible] Add [illegible] mixture [illegible]

[illegible] sodium chlorate [illegible]

[illegible]

Aerial Application [illegible]

[illegible]

Center Pivot Irrigation Application [illegible]

Precautions for center pivot applications: [illegible] through irrigation systems [illegible] check valves [illegible] prevent [illegible] and [illegible] overflow of [illegible] tank [illegible] right angle turn in the main line to insure adequate [illegible] 3 [illegible] injection pumps and water pump [illegible] interlocking controls to insure simultaneous shut off. 4) Application when drift may occur from windy conditions or when system joints and connections are leaking or when nozzles are not providing uniform distribution may cause crop injury. 5) 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 6L Applied Alone — Corn, Grain Sorghum, or Forage Sorghum

Preplant Surface-Applied, Preplant Incorporated, or Preemergence

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

*Control of these weeds [illegible] able weather conditions. Control may [illegible] ing these suggested procedures.

1. **Thoroughly till moist soil** to destroy germinating and emerged weeds. If Bicep 6L is to be applied preplant incorporated, this tillage may be used to incorporate Bicep 6L if uniform 2-inch incorporation is achieved [illegible] recommended under **Application Procedures.**
2. Plant crop into moist soil **immediately after tillage.** If Bicep 6L is to be used preemergence, apply at planting or immediately after planting.
3. If available, **sprinkler irrigate** within 2 days after application. Apply [illegible] inch of water. Use lower water volume [illegible] inch on coarse textured soils and higher volume [illegible] inch on fine textured soils. [illegible] the section on **Center Pivot Irrigation Application** [illegible] of applying Bicep 6L.
4. If irrigation is not possible and rainfall does not [illegible] 2 days after planting [illegible] application, weed control may be decreased [illegible] A cultivation is recommended as soon as weeds emerge.

Application Timings:

Preplant Surface Applied (Corn) [illegible] textured soils with minimum [illegible] CO, IN, IL, IA, KS, KY, MN, MO, MI, NE, ND, SD, WI [illegible] Apply [illegible] the recommended rate of Bicep 6L [illegible] *medium* soils and 3.0-3.75 qts. A [illegible] treatment of 30-45 days before planting and the remainder at planting. Applications made less than 30 days prior to planting may be as either a split or single treatment. Use the lower rate for light expected weed infestations and the higher rate for heavy expected weed infestations. On coarse-textured soils apply [illegible] 4 qts. A not more than 2 weeks prior to planting. The above procedure may be followed if AAtrex [illegible] Princep is used in tank mixtures with Bicep 6L. If weeds are present at the time of treatment, apply in a tank mix combination with a contact herbicide (for example, paraquat or [illegible]

[illegible] Bicep 6L [illegible] recommended [illegible]

Note [illegible]

Preplant Surface Applied (Sorghum Seed Treated with Concep) [illegible] Bicep 6L [illegible] grain sorghum in IL, IA, eastern KS, MO, NE and SD. Use only split applications for treatments made 30 to 45 days before planting with [illegible] the recommended rate applied initially and the remainder at planting. On medium soils with greater than 1.5% organic matter and on fine soils with less than 1.5% organic matter apply 2.4-2.7 qts. A of Bicep 6L; on fine soils with greater than 1.5% organic matter apply 2.7-3.0 qts. A of Bicep 6L. Applications made less than 30 days prior to planting may be made as either a split or single application.

If weeds are present at the time of treatment, apply in a tank mixture combination with a contact herbicide (for example, paraquat or Roundup). Observe directions for use, precautions, and restrictions on the label of the contact herbicide. Under dry conditions, irrigation after application is recommended to move Bicep 6L into the soil.

Note: 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. Do not use on coarse soils. Do not use on medium soils with less than 1.5% organic matter.

Preplant Incorporated or Preemergence (Corn or Sorghum-Seed Treated with Concep): Apply Bicep 6L preplant incorporated or preemergence using the appropriate rates from Table 1 for corn, or from Table 2 for sorghum.

Preplant Incorporated: Apply to the soil and incorporate into the top 2 inches of the soil within 14 days prior to planting using a finishing disk harrow, rolling cultivator, or similar implement capable of providing uniform 2-inch incorporation. Use preplant incorporated if furrow irrigation is used or when a period of dry weather after 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.

Table 1 Bicep 6L Preplant Surface-Applied, Preplant Incorporated, or Preemergence — Corn (Field corn, silage corn, sweet corn, popcorn)

Soil texture	Broadcast rate per acre Less than 3% organic matter	Broadcast rate per acre 3% organic matter or greater
COARSE Sand, loamy sand, sandy loam	1.5 qts	1.8 qts
MEDIUM Loam, silt loam, silt	1.8 qt	2.4 qts
FINE Silty clay loam, sandy clay loam, silty clay, sandy clay, clay loam, clay	2.4 qts	2.4-3 qts*
Muck or peat soils	DO NOT USE	

*For [illegible] cocklebur [illegible] nutsedge [illegible] fine textured soils above [illegible] organic matter. Apply 3 qts of Bicep 6L per acre.

Table 2 Bicep 6L — Grain or Forage Sorghum† (seed treated with Concep)

Soil texture	Organic matter	Broadcast rate per acre
COARSE Sand, loamy sand, sandy loam	[illegible]	DO NOT USE
MEDIUM AND FINE Loam, silt loam, sandy clay loam, clay loam, silty clay loam, sandy clay, silty clay	[illegible]	DO NOT USE
	[illegible]	1.8 qts
	[illegible]	2.2-2.4 qts

†[illegible] NM [illegible] southeast [illegible] and Texas Gulf Coast and Blacklands areas [illegible] AZ [illegible]

Rotational Crops

Postemergence — Corn

Weeds Controlled		Broadcast rate per acre
barnyardgrass	smartweed	
watergrass		
crabgrass		
foxtail		

Application

Table 3 Postemergence - Corn

Soil texture	Broadcast rate per acre

Rotational Crops

Bicep 6L Combinations — Corn

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

AAtrex (4L, 4LC, 80W or Nine-O)

Dual 8E

Princep (4L and Nor-Am 90W)

Bladex (4L, 80W or 90WDG) (Field Corn and Silage Corn Only)

Note

Application in Water or Fluid Fertilizers

Tank Mixtures of Bicep 6L Alone or Bicep 6L plus AAtrex, Bladex, Dual 8E, or Princep, with Paraquat or Roundup for Minimum-Tillage or No-Tillage Systems

Application

Paraquat

Roundup

Table 4 Bicep 6L for Minimum Tillage or No Tillage Corn

Soil texture	Broadcast rate per acre

Rotational Crops [illegible] Bicep 6L Agreement [illegible]

Bicep 6L Combinations — Grain Sorghum (Seed treated with Concep)

Tank Mixtures of Bicep 6L with Paraquat or Roundup for Minimum-Tillage or No-Tillage Systems

[illegible] sorghum is planted directly [illegible] established [illegible] (Previous [illegible] herbicides paraquat or Roundup may be tank [illegible] 6L. When used as directed, the paraquat [illegible] mixture controls most emerged annual weeds [illegible] many perennial weeds. Roundup controls [illegible] emerged annual and perennial weeds [illegible] directed on the Roundup label. The Bicep 6L [illegible] tank mixture provides preemergence [illegible] listed on the label in the Bicep 6L Application [illegible]

Refer to the label of each product used [illegible] observe the planting details, restrictions [illegible] tions and limitations.

Application: Apply before during [illegible] grain sorghum emerges at the approximate [illegible] paraquat or Roundup at the following broadcast rates:

Paraquat: 1-2 pts.* per acre plus 8 oz. [illegible] X-77 Spreader per 100 gals. of spray mixture. Use the [illegible] rate for control of annual weeds less than 4 inches tall and the higher rate for weeds 4-6 inches tall. This treatment will [illegible] consistently control weeds taller than 6 inches.

Roundup: [illegible] pts. per acre for control of 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.

* Based on a product containing 2 lbs. ai/gal.

Apply in a minimum of 20 gals. of water per acre with conventional spray equipment.

Table 5: Bicep 6L for Minimum-Tillage or No-Tillage Grain Sorghum† (Seed treated with Concep)

Soil texture	Organic matter	Broadcast rate per acre
COARSE		
Sand, loamy sand, sandy loam	[illegible]	[illegible]
MEDIUM AND FINE		
Loam, silt loam, sandy clay loam, clay loam, silty clay loam, sandy clay, silty clay	[illegible]	[illegible]

† [illegible] Texas [illegible] plant [illegible] AZ [illegible]

Rotational Crops [illegible] Bicep 6L Agreement [illegible]

Storage and Disposal

Pesticide Disposal

[illegible] smoke.

Container Disposal

[illegible]

[illegible] Avoid contact with [illegible] May be a sensitizer. Avoid contact with [illegible]

Practical Treatment: If swallowed, call a local poison control center, hospital, [illegible] the patient [illegible] maintain breathing and heartbeat. [illegible] NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

In case of contact, immediately flush eyes or skin with plenty of water. Remove and wash contaminated clothing before reuse. Get medical attention if irritation persists.

Note to Physician: There is no specific antidote. If swallowed, induce emesis or lavage stomach. The use of an aqueous slurry of activated charcoal should be considered.

Environmental Hazards

Do not apply directly to any body of water. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply when weather conditions favor drift from areas treated.

AAtrex® trademark of CIBA-GEIGY for atrazine

Bicep® trademark of CIBA-GEIGY
U.S. Patent No. 4,937,730 (metolachlor)

Bladex® trademark of Shell Chemical Company for cyanazine

Caliber® trademark of CIBA-GEIGY

Compete® trademark of KALO Agricultural Chemicals, Inc.

Concep® trademark of CIBA-GEIGY
U.S. Patent No. 4,970,384

Dual® trademark of CIBA-GEIGY [illegible]
U.S. Patent No. [illegible]

Princep® trademark of CIBA-GEIGY for simazine

Roundup® trademark of Monsanto Company
[illegible] Glyphosate herbicide

[illegible] trademark of Mobay Agricultural Chemicals [illegible]

[illegible] trademark of KALO Agricultural Chemicals [illegible]

[illegible]

[illegible]

Bicep® 6L

Herbicide

For weed control in corn and grain or forage sorghum

Active Ingredients

Atrazine: 2-chloro-4-ethylamino-6-isopropylamino-s-triazine	27.4%
Atrazine related compounds	1.5%
Metolachlor 2-chloro-*N*-(2-ethyl-6-methylphenyl)-*N*-(2-methoxy-1-methylethyl) acetamide	36.1%
Inert Ingredients	35.0%
Total	100.0%

Bicep 6L contains 6 lbs active ingredients per gallon.

EPA Reg. No. 100-645

EPA Est. 100-LA-1

Bicep® trademark of CIBA-GEIGY

U.S. Patent No. 3,937,730 (metolachlor)

See directions for use in attached booklet

2½ Gallons

U.S. Standard Measure

Keep Out of Reach of Children.

Caution

Precautionary Statements

Hazards to Humans and Domestic Animals

Harmful if swallowed, inhaled or absorbed through the skin. Avoid breathing vapors, mist or dust. Avoid eye and skin contact. May be a mild irritant. Avoid contamination of feed.

Practical Treatment [illegible]

Note to Physician [illegible]

Environmental Hazards [illegible]

Container Disposal [illegible]

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