

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Best Image Available

FEB 23 1998

Mr. James S. Stumpf
Mowbray Crop Protection, Inc.
P.O. Box 10500
Greensboro, NC 27419-6399

Dear Mr. Stumpf:

- Subject: **Alcon II[®] Herbicide**
EPA Registration No. 100-710
- Alcon Lite II[®] Herbicide**
EPA Registration No. 100-750
- Alcon II Fungus[®] Herbicide**
EPA Registration No. 100-817
- Alcon Lite II Fungus[®] Herbicide**
EPA Registration No. 100-827

Applications and your letters dated February 2, 1998, requesting label revisions to use the pending common name of the active ingredient (S-Metolachlor), revisions for clarity and adding information on application of products, use a target weed (waterhemp), removing a Tank Mix Partner (Cyclo[®], not presently registered), Tank Mix Partner Rates Reiterated for correct rates to be used, combinations for field corn only, use of Spirit[®] for salvage weed control in field corn only, and the removal of "Kodakides" as a use site

The proposed label revisions for the respective pesticide products listed in your applications and letters have been reviewed and found acceptable as amendments to the respective pesticide product registrations under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA) as amended provided that you:

1. Delete the research and development code name "CGA-77102" from the ingredient statement and use the pending common name "S-Metolachlor" in its place in both statements where it is used on each of the subject proposed pesticide product labels. And, that you inform this Agency when the common name is established for this pesticide chemical.

2. Submit one (1) copy of the final printed labeling of each of the subject products prior to shipping if about the subject respective labeling.

SYMBOL						
SURNAME						
DATE						

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA, section 6(e). Your release for shipment of the pesticide product under the subject labeling constitutes your acceptance of these condition for that product.

A stamped copy of the respective proposed label is enclosed for your records.

Sincerely yours,

Joanne I. Miller
Product Manager (23)
Herbicide Branch
Registration Division (7505C)

enclosure

Ewilson:Diskette:Metolachlor: 02-20-98

CONCURRENCES

SYMBOL							
SURNAME							
DATE							

Bulk/Farm-Pak/Field-Pak Booklet

RESTRICTED USE PESTICIDE
(GROUND AND SURFACE WATER CONCERNS)

FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

THIS PRODUCT IS A RESTRICTED-USE HERBICIDE DUE TO GROUND AND SURFACE WATER CONCERNS. USERS MUST READ AND FOLLOW ALL PRECAUTIONARY STATEMENTS AND INSTRUCTIONS FOR USE IN ORDER TO MINIMIZE POTENTIAL FOR ATRAZINE TO REACH GROUND AND SURFACE WATER.

Bicep Lite II™

HERBICIDE

For weed control in corn and grain or forage sorghum

Active Ingredients:

Atrazine: 2-chloro-4-ethylamino-6-isopropylamino-s-triazine	17.4%
Atrazine related compounds	0.9%
Metolachlor: 2-chloro-N-(2-ethyl-6-methylphenyl)-N-(2-methoxy-1-methylethyl) acetamide	35.3%
<u>Inert Ingredients:</u>	<u>46.4%</u>
Total:	100.0%

ACCEPTED
with COMMENTS
In EPA Letter Dated

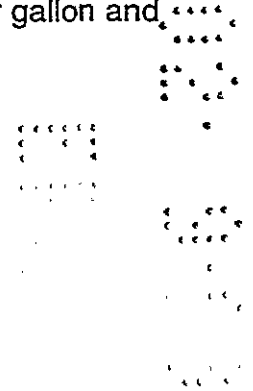
FEB 23 1998

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 100-766

Bicep Lite II typically contains 1.67 lbs. atrazine + relateds per gallon and 3.23 lbs. metolachlor active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

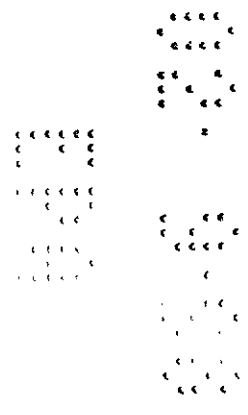


See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-766

NCP

[QUARK/BICEP LITE II/N-BICEP-L-II BLK BKLT-A] ccg - 1/29/98



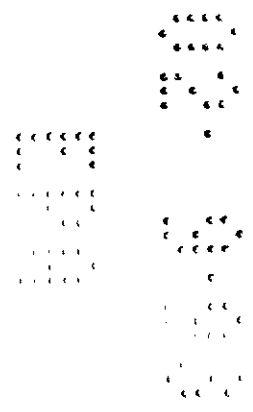
DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

IMPORTANT: Read the entire **Directions for Use** and the **Conditions of Sale and Warranty** before using this product. If terms are not acceptable, return the unopened product container at once.

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 Novartis Crop Protection, Inc. or the Seller. All such risks shall be assumed by the Buyer.

Novartis 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. **Novartis makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Novartis or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product.** Novartis 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 Novartis.



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 a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Waterproof gloves
- Chemical-resistant footwear plus socks

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

GENERAL INFORMATION

Bicep Lite II is a selective herbicide recommended before planting, before or after emergence (see directions) for control of most annual grasses and broadleaf weeds in corn. Bicep Lite II can also be used before crop emergence for control of most annual grasses and broadleaf weeds in grain or forage sorghum, provided the sorghum seed has been properly treated by the seed company with Concep® or Screen®. This product may be tank-mixed with Banvel®, Bladex® (4L or 90DF), Dual® formulations, Extrazine® II, Lorox® or equivalent, or Princep® 4L (Caliber 90®) for weed control in conventional tillage corn. This product may also be tank-mixed with other herbicides specified on this label for weed control in conventional, minimum till, and no-till corn, grain sorghum, or forage sorghum.

Note: Tank mixtures are permitted only in those states where the tank-mix partner is registered.

Following many years of continuous use of atrazine (one of the ingredients in Bicep Lite II) and products chemically related to atrazine, biotypes of some of the weeds listed on this label which are controlled by the atrazine component have been reported to develop resistance to this and chemically related herbicides. Where this is known or suspected, and weeds controlled by this product are expected to be present along with resistant biotypes, we recommend the use of Bicep Lite II in combination or in sequence with registered herbicides which do not contain triazines. Consult with your State Agricultural Extension Service for specific recommendations.

Precautions: (1) If sorghum seed is not properly pretreated with Concep or Screen, Bicep Lite II will severely injure the crop. (2) Injury may occur to corn or sorghum following the use of Bicep Lite II under abnormally high soil moisture conditions during early development of the crop.

Bicep Lite II alone or in tank mixture with Banvel, Bladex, Dual, Extrazine II, or Princep may be applied early preplant, preplant incorporated, preplant surface, or preemergence on corn in water or fluid fertilizer. Apply postemergence treatments of Bicep Lite II to corn using water only as the carrier. Bicep Lite II may be applied in tank-mix combination with Gramoxone Extra, Landmaster BW, or Roundup with or without the above herbicides early preplant, preplant surface, or preemergence to corn. Bicep Lite II alone may also be applied on sorghum early preplant, preplant incorporated, preplant surface, or preemergence in water or in fluid fertilizer.

Bicep Lite II may be applied in water by aircraft. Applications in fluid fertilizer should be only by ground equipment.

To avoid spray drift, do not apply under windy conditions. Avoid spray

overlap, as crop injury may result.

Do not apply this product through any type of irrigation system.

Where reference is made to weeds partially controlled, partial control can either mean erratic control from good to poor or consistent control at a level below that generally considered acceptable for commercial weed control.

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

Observe all precautions and limitations on the label of each product used in tank mixtures.

Thoroughly clean sprayer or other application device before using. Dispose of cleaning solution in a responsible manner. Do not use a sprayer or applicator contaminated with other materials, or crop damage or sprayer clogging of the application device may occur.

Mixing Instructions

Thoroughly recirculate containers and bulk tanks before using. Bicep Lite II is a liquid that may be mixed with water or fluid fertilizer and applied as a spray. Bicep Lite II 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 Lite II and used to control weeds in corn or Concep-treated sorghum.

When applying Bicep Lite II with dry bulk granular fertilizers, follow all directions for use and precautions on the Bicep Lite II label regarding target crops, rates per acre, soil texture, application methods, and rotational crops.

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.

Prepare the herbicide/fertilizer mixture by using any closed drum, belt, ribbon, or other commonly used dry bulk fertilizer blender. Nozzles used to spray Bicep Lite II onto the fertilizer must be placed to provide uniform spray coverage. Care should be taken to aim the spray onto the fertilizer only, avoiding the walls of the blender.



If the herbicide/fertilizer mixture is too wet, add a highly absorptive material, such as Agsorb® F.G. or Celatom MP-79®, or similar granular clay or diatomaceous earth materials, to obtain a dry, free-flowing mixture. Absorptive materials should be added only after the herbicide has been thoroughly blended into the fertilizer mixture. Best application results will be obtained by using a granule of 6/30 particle size or of a size similar to that of the fertilizer material being used. Generally, less than 2% by weight of absorptive material will be needed. Avoid using more than 5% absorptive material by weight.

Calculate the amount of Bicep Lite II to be used by the following:

$$\begin{array}{rclcl}
 \underline{2,000} & & \text{qts. of Bicep Lite II} & & \text{qts. of Bicep Lite II} \\
 \text{lbs. of} & \text{X} & \text{per acre} & = & \text{per ton of} \\
 \text{fertilizer} & & & & \text{fertilizer} \\
 \text{per acre} & & & &
 \end{array}$$

Pneumatic (Compressed Air) Application

High humidity, high urea concentrations, low fertilizer use rates, and dusty fertilizer may cause fertilizer mixtures to build up or plug the distributor head, air tubes, or nozzle deflector plates. To minimize buildup, premix Bicep Lite II with Exxon Aromatic 200 at a rate of 2.0-2.5 pts./gal. of Bicep Lite II. Aromatic 200 is a noncombustible/nonflammable petroleum product. Aromatic 200 may be used in either a fertilizer blender or through direct injection systems. Drying agents should not be used when using Aromatic 200.

Notes: (1) Mixtures of Bicep Lite II and Aromatic 200 must be used on dry fertilizer only. Poor results or crop injury may result if these mixtures are used in water or liquid fertilizer solutions for spraying applications. (2) When impregnating Bicep Lite II in a blender before application, a drier mixture can be attained by substituting a drying agent for Aromatic 200. The use of Agsorb F.G. or another drying agent of 6/30 particle size is recommended. (3) Drying agents are not recommended for use with On-The-Go impregnation equipment.

Precautions: To avoid potential for explosion, (1) Do not impregnate Bicep Lite II on ammonium nitrate, potassium nitrate, or sodium nitrate either alone or in blends with other fertilizers. (2) Do not combine Bicep Lite II with a single superphosphate (0-20-0) or treble superphosphate (0-46-0). (3) Do not use Bicep Lite II on straight limestone, since absorption will not be achieved. Fertilizer blends containing limestone can be impregnated.

Application

Apply 200-700 lbs. of the herbicide/fertilizer mixture per acre. For best results, apply the mixture uniformly to the soil with properly calibrated

equipment immediately after blending. Uniform application of the herbicide/fertilizer mixture is essential in order to prevent possible crop injury or injury to subsequent rotational crops. Non-uniform application may also result in unsatisfactory weed control. In areas where conventional tillage is practiced, a shallow incorporation of the mixture into the soil is recommended to obtain satisfactory weed control. On fine- or medium-textured soils in areas where soil incorporation is not planned, i.e., reduced tillage situations or in some conventional till situations, make applications approximately 30 days before planting to allow moisture to move the herbicide/fertilizer mixture into the soil. On coarse-textured soils, make applications approximately 14 days prior to planting.

Precautions: (1) To help avoid rotational crop injury, make applications as early as possible, since Bicep Lite II impregnated onto dry bulk granular fertilizers can be expected to last longer in the soil than when Bicep Lite II is applied as a spray in water or fluid fertilizer. (2) To avoid potential crop injury, do not use the herbicide/fertilizer mixture on crops where planting beds are to be formed.

Application in Water or Fluid Fertilizers

Bicep Lite II Alone: Fill the spray tank 1/2-3/4 full with water or fluid fertilizer, add the proper amount of Bicep Lite II, 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 1/2-3/4 full with water or fluid fertilizer, add the proper amount of Bicep Lite II, then add Banvel, Lorox or equivalent, or Princep; next add Dual; then add Gramoxone Extra, Landmaster BW, or Roundup, depending on the tank-mix combination desired; and finally add the rest of the water or fluid fertilizer. When Bladex or Extrazine II is used in the tank mixture, add it before Bicep Lite II, unless otherwise specified. (See Bladex section under **Bicep Lite II Combinations – Corn** for further mixing instructions.) Provide sufficient agitation during mixing and application to maintain a uniform suspension.

Compatibility Test: Check the compatibility of Bicep Lite II and tank mixtures in fluid fertilizer by mixing proportionate quantities in a small container, as described below, before mixing in the spray tank. Nitrogen solutions or complete fluid fertilizers may replace all or part of the water in the spray. Since liquid fertilizers can vary, even within the same analysis, **always check compatibility each time before reuse.** Be especially careful when using **complete** suspension or fluid fertilizers, as serious compatibility problems are more apt to occur. Commercial application equipment may improve compatibility in some instances. The following test assumes a spray volume of 25 gals./A. For other spray volumes, make appropriate changes in the ingredients. Check compatibility using this procedure:

1. Add 1.0 pt. of fertilizer to each of 2 one-qt. jars with tight lids.
2. To **one** of the jars, add 1/4 tsp. or 1.2 milliliters of a compatibility agent approved for this use, such as Compex® or Unite® (1/4 tsp. is equivalent to 2.0 pts./100 gals. spray). Shake or stir gently to mix.
3. To **both** jars, add the appropriate amount of herbicide(s). If more than one herbicide is used, add them separately with dry herbicides first, flowables next, and emulsifiable concentrates last. After each addition, shake or stir gently to thoroughly mix. The appropriate amount of herbicides for this test follows:

Dry herbicides: For each pound to be applied per acre, add 1.4 teaspoons to each jar.

Liquid herbicides: For each pint to be applied per acre, add 0.5 teaspoon or 2.5 milliliters to each jar.

4. After adding all ingredients, put lids on and tighten, and invert each jar 10 times to mix. Let the mixtures stand 15 minutes and then look for separation, large flakes, precipitates, gels, heavy oily film on the jar, or other signs of incompatibility. Determine if the compatibility agent is needed in the spray mixture by comparing the 2 jars. If either mixture separates, but 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: (A) slurry the dry herbicide(s) in water before addition, or (B) add 1/2 of the compatibility agent to the fertilizer and the other 1/2 to the emulsifiable concentrate or flowable herbicide before addition to the mixture. If still incompatible, do not use the mixture.
5. After compatibility testing is complete, dispose of any pesticide wastes in accordance with the directions in the **Storage and Disposal** section at the end of this label.

Soil Texture Information

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 and where weed pressure, particularly from grasses, is expected to be especially heavy.

Recommendations are based upon soil textures, which are defined as follows:



COARSE	Sand, loamy sand, sandy loam
MEDIUM	Loam, silt loam, silt
FINE	Sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay

Application Procedures

Ground Application: Use sprayers that provide accurate and uniform application. 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:

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

Low Carrier Application (Broadcast Ground Application Only): Use sprayers, such as Ag-Chem RoGator®, Hagie, John Deere Hi-Cycle™, John Deere 4700 Sprayer, Melroe Spra-Coupe, Tyler Patriot™, or Willmar Air Ride®, that provide accurate and uniform application. **Only water may be used as a carrier.** Screens in suction and in-line strainers should be 50-mesh. Manufacturers may require that tip screens as fine as 100-mesh be used with some nozzles. Use a pump with capacity to: (1) maintain up to 35-40 psi at the nozzles, and (2) provide sufficient agitation in tank to keep mixture in suspension. Use a minimum of 5.0 gals. of spray mixture per acre. Maximum recommended sprayer speed is 15 mph. Maintain uniform travel speed while spraying. Rinse sprayer thoroughly with clean water immediately after each use.

Note: Low pressure nozzles are recommended to reduce drift and increase application accuracy. When using automatic rate controlling devices, care should be taken to spray the material within the rated working pressure and flow ranges of the nozzle selected. Nozzle screens should be used when recommended by the manufacturer. All nozzles should be placed on 20-inch centers, except flooding types which should be placed on 40-inch centers. When Flat Fan-type nozzles are used, angles of 80° or 110° are recommended. Always read and follow the manufacturer's directions for optimum setup and performance of their nozzles or tips.

Aerial Application (for Bicep Lite II alone): Use aerial application only where broadcast applications are specified. Apply a minimum of 1.0 gal.

of water for each 1.0 gal. of this product applied per acre, but for rates below 1.0 gal./A, use in sufficient water to equal 2.0 gals./A 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 the 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 Lite II 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.

BICEP LITE II APPLIED ALONE

Weeds Controlled – When applied early preplant, preplant surface-applied, preplant incorporated, or preemergence, Bicep Lite II will control or suppress the following weeds:



Weeds Controlled		Weeds Partially Controlled*
barnyardgrass (watergrass)	carpetweed	cocklebur
crabgrass	common purslane	giant ragweed
crowfootgrass	common ragweed	morningglory
fall panicum	Florida pusley	sandbur
foxtail millet	galinsoga	seedling johnsongrass
giant foxtail	jimsonweed	shattercane
goosegrass	lambsquarters	sicklepod
green foxtail	nightshades	volunteer sorghum
prairie cupgrass	pigweed	velvetleaf
signalgrass*	smartweed	woolly cupgrass
southwestern cupgrass	waterhemp	
witchgrass		
yellow foxtail		
yellow nutsedge*		

*Control may be improved by following these suggested procedures:

1. **Thoroughly till moist soil** to destroy germinating and emerged weeds. If Bicep Lite II is to be applied preplant incorporated, this tillage may be used to incorporate Bicep Lite II if uniform 2-inch incorporation is achieved as recommended under **Application Procedures**.
2. Plant crop into moist soil **immediately after tillage**. If Bicep Lite II 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 fine-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.
5. For large-seeded broadleaf species, or those which are listed as partially controlled, an application of a postemergence herbicide should be made, if needed, following an application of Bicep Lite II.

Application Timings*

*Where there are state/local requirements regarding atrazine use (including lower maximum rates and/or higher setbacks) which are

different from the label, the more restrictive/protective requirements must be followed. Certain states may have established rate limitations within specific geographical areas. Consult your state lead pesticide control agency for additional information. It is a violation of this label to deviate from state use regulations.

Note: For purposes of calculating total atrazine active ingredient applied, Bicep Lite II contains 1.67 lbs. a.i. atrazine + relateds per gal. (0.4175 lb. a.i. per qt.).

Corn (All Types)

Early Preplant: For coarse-textured soils, apply 2.4 qts. of Bicep Lite II no earlier than 2 weeks before planting. For medium- and fine-textured soils, Bicep Lite II may be applied as a split treatment, by applying $\frac{2}{3}$ the recommended rate 30-45 days before planting, followed by the remaining $\frac{1}{3}$ rate at planting. See Table 1. Applications made less than 30 days before planting may be either split or single applications. For all soils, Bicep Lite II must be tank-mixed with a contact herbicide (e.g., Gramoxone Extra or Roundup) if weeds are present at the time of treatment. If large-seeded dicots are present in the field, an application of an appropriate postemergence herbicide may be necessary after corn emergence. Observe the directions for use, precautions, and restrictions of all herbicides used in tank mixtures or as sequentials to Bicep Lite II. If the postemergence product contains atrazine, do not exceed the maximum use rates for that soil or location.

On medium- and fine-textured soils, following final seedbed preparation in the Blacklands and Gulf Coast areas of TX, an early preplant application of Bicep Lite II at 1.8-2.2 qts./A may be made 30-45 days before planting. Grass suppression of 2-3 weeks after planting can be expected as a result of this application. Do not incorporate or disturb the soil before planting, and avoid moving the soil during the planting operation. A follow-up application of Dual may be needed in fields with a history of heavy grass pressure. Apply after planting, but before corn and grass weeds emerge.

Notes: (1) If a follow-up application of Dual is needed, do not exceed a total of 2.5 lbs. a.i. of metolachlor per acre, including the preplant Bicep Lite II application on medium- or fine-textured soils. On fine-textured soils with more than 3% organic matter, do not exceed 3.0 lbs. a.i. of metolachlor. (2) 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.

Table 1: Bicep Lite II – Early Preplant – Corn

Soil Texture	Single Application	Split Applications*	
		30-45 DBP**	At Planting
COARSE Sand, loamy sand, sandy loam	2.4 qts./A	DO NOT APPLY	
MEDIUM Loam, silt loam, silt	2.4 qts./A to 3.0 qts./A	1.6 qts./A to 2.0 qts./A	0.8 qt./A to 1.0 qt./A
FINE Sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	3.0 qts./A to 3.5 qts./A	2.0 qts./A to 2.5 qts./A	1.0 qt./A to 1.25 qts./A

*Split applications can be made less than 30 days before planting if desired.

**DBP – Days before planting.

Preplant Surface, Preplant Incorporated, or Preemergence: Apply Bicep Lite II preplant surface, preplant incorporated, or preemergence, using the appropriate rates from Table 2.

Preplant Surface: Apply uniformly to the soil surface within 14 days before planting. Where applications are made to coarse soils more than 7 days before planting, use the rates in Table 1.

Preplant Incorporated: Apply to the soil and incorporate into the top 2 inches of the soil within 14 days before planting, using a finishing disk, finishing harrow, rolling cultivator, or similar implement capable of providing uniform 2-inch incorporation. Use the preplant incorporated method 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 2: Bicep Lite II – Preplant Surface, Preplant Incorporated, or Preemergence – Corn

Soil Texture	Broadcast Rate Per Acre	
	Less Than 3% Organic Matter	3% Organic Matter or Greater
COARSE Sand, loamy sand, sandy loam	1.5 qts.	1.8-2.4 qts.
MEDIUM Loam, silt loam, silt	1.8-2.4 qts.	2.4 qts.
FINE Sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	2.4 qts.	2.4-3.5 qts.*
Muck or peat soils (more than 20% organic matter)	DO NOT USE	

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

Notes: (1) In the event of escape of annual weeds following an early preplant, preplant surface, preplant incorporated, or preemergence treatment of Bicep Lite II applied alone or in combination, follow with a postemergence application of an appropriately labeled broadleaf and/or grass weed herbicide, i.e., AAtrex®, Beacon®, Banvel, Basagran®, Brominal®, Buctril®, Marksman®, or 2,4-D. If the postemergence treatment includes the herbicide used in the earlier treatment, do not exceed the labeled rate for corn on a given soil texture. (2) Brominal or Buctril may be applied postemergence alone or in tank-mix combination with AAtrex. Do not exceed 1.2 lbs. a.i./A of AAtrex in tank-mix combination with Brominal or Buctril postemergence. Refer to the AAtrex, Brominal, and Buctril labels for specific rates and precautions. (3) If AAtrex or another product containing atrazine is used postemergence following application of Bicep Lite II, do not exceed a total of 2.5 lbs. a.i./A of atrazine per year.

Postemergence Broadcast – Corn

<u>Weeds Controlled</u>	<u>Weeds Partially Controlled</u>
common ragweed	cocklebur
flixweed	giant foxtail
jimsonweed	green foxtail
kochia	velvetleaf
lambsquarters	yellow foxtail
momingglory	yellow nutsedge
pigweed	
sunflower	
waterhemp	

Apply Bicep Lite II early postemergence, using the appropriate rate from Table 3, before weeds pass the 2-leaf stage of development and before corn exceeds 5 inches in height. Application to larger weeds may result in unsatisfactory control. A tank-mix or sequential application with a postemergence herbicide may be needed for adequate control of large-seeded broadleaf weeds, as well as other broadleaves not listed above. Occasional corn leaf burn may result, but this should not affect later growth or yield.

Note: To avoid possible illegal residues, do not graze or feed forage from treated areas for 30 days following application.

Table 3: Postemergence Broadcast – Corn

Soil Texture	Broadcast Rate Per Acre
COARSE Sand, loamy sand, sandy loam	1.8 qts.
MEDIUM Loam, silt loam, silt	2.4 qts.
FINE Sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	2.4-3.0 qts.*

*For better control of yellow nutsedge and broadleaf weeds on fine-textured soils above 3% organic matter, apply 3.0 qts. of Bicep Lite II per acre.

Notes: (1) If another atrazine-containing product has been applied early preplant, preplant surface, preplant incorporated, or preemergence, do not exceed a total of 2.5 lbs. of atrazine per acre. (2) Do not exceed a total of 6.0 lbs. of the active ingredient in Dual per acre of a corn crop, or illegal residues may result.

Rotational Crops: Follow the crop rotation recommendation instructions in the **Bicep Lite II Alone** section of this label.

Postemergence-Directed – Corn

Bicep Lite II may be applied as a postemergence-directed treatment to corn to extend control of weeds listed in the **Early Preplant, Preplant Surface-Applied, Preplant Incorporated, Preemergence, or Postemergence Broadcast** sections of the corn label.

Apply Bicep Lite II to weed-free soil at the appropriate rate in Table 4, following use of an early preplant, preplant surface, preplant incorporated, or preemergence herbicide, or following a lay-by cultivation. If weeds have emerged, apply before grass and broadleaf weeds exceed the 2-leaf stage. Additional control of emerged broadleaf weeds can be obtained by tank-mixing with an appropriate postemergence herbicide. Application to weeds larger than the 2-leaf stage can result in unsatisfactory control. Apply to corn not exceeding 12 inches in height. Minimize contact with corn leaves.

Note: To avoid possible illegal residues, do not graze or feed forage from treated areas for 30 days following application.

Table 4: Postemergence-Directed – Corn

Soil Texture	Broadcast Rate Per Acre
COARSE Sand, loamy sand, sandy loam	1.5 qts.
MEDIUM Loam, silt loam, silt	2.4 qts.
FINE Sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	2.4-3.0 qts.

Notes: If Bicep Lite II, Dual, or other products containing metolachlor and/or atrazine have been applied, do not exceed a total of 2.5 lbs./A of atrazine a.i. or 6.0 lbs./A of the a.i. in Dual.

Sorghum (Sorghum-Seed Treated with Concep or Screen)

Early Preplant (Sorghum-Seed Treated with Concep or Screen): For minimum-tillage and no-tillage systems only, Bicep Lite II may be applied up to 45 days before planting grain sorghum in IA, IL, eastern KS, MO, NE, and SD, using the rates from Table 5. Use only split applications for treatments made 30-45 days before planting with 2/3 the recommended rate applied initially and the remaining 1/3 at planting. 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, Gramoxone Extra, Landmaster BW, 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 Lite II 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 1.0% organic matter.

On medium- and fine-textured soils, following final seedbed preparation in the Blacklands and Gulf Coast areas of TX, an early preplant application of Bicep Lite II at 1.8-2.2 qts./A may be made 30-45 days before planting. Grass suppression of 2-3 weeks after planting can be expected as a result of this application. Do not incorporate or disturb the soil before planting and avoid moving the soil during the planting operation. A follow-up application of Dual may be needed in fields with a history of heavy grass pressure. Apply after planting, but before sorghum and grass weeds emerge.

Notes: (1) Do not use on soils with a pH greater than 8.0 if grain sorghum is to be planted. (2) If a follow-up application of Dual is needed, do not exceed a total of 2.25 lbs. a.i. of metolachlor per acre, including the early preplant Bicep Lite II application on medium-textured soils. On fine-textured soils, do not exceed 2.5 lbs. a.i. of metolachlor per acre.

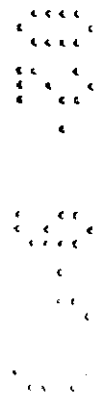


Table 5: Bicep Lite II – Early Preplant – Grain or Forage Sorghum (Seed treated with Concep or Screen)

Soil Texture	Organic Matter	Single Application	Split Applications*	
			30-45 DBP**	At Planting
COARSE Sand, loamy sand, sandy loam	any level	DO NOT USE	DO NOT USE	
MEDIUM Loam, silt loam, silt	less than 1.0%	DO NOT USE	DO NOT USE	
	more than 1.0%	2.4 qts./A to 2.7 qts./A	1.6 qts./A to 1.8 qts./A	0.8 qt./A to 0.9 qt./A
FINE Sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	less than 1.5%	2.4 qts./A to 2.7 qts./A	1.6 qts./A to 1.8 qts./A	0.8 qt./A to 0.9 qt./A
	more than 1.5%	2.7 qts./A to 3.0 qts./A	1.8 qts./A to 2.0 qts./A	0.9 qt./A to 1.0 qt./A

*Split applications can be made less than 30 days before planting if desired.

**DBP – Days before planting.

Preplant Surface, Preplant Incorporated, or Preemergence (Sorghum Seed Treated with Concep or Screen): Apply Bicep Lite II preplant surface, preplant incorporated, or preemergence, using the appropriate rates from Table 6.

Preplant Surface: Apply uniformly to the soil surface within 14 days before planting.

Preplant Incorporated: Apply to the soil and incorporate into the top 2 inches of the soil within 14 days before planting, using a finishing disk, finishing harrow, rolling cultivator, or similar implement capable of providing uniform 2-inch incorporation. Use the preplant incorporated method 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 6: Preplant Surface, Preplant Incorporated, or Preemergence – Grain or Forage Sorghum* (Seed treated with Concep or Screen)

Soil Texture	Organic Matter	Broadcast Rate Per Acre
COARSE Sand, loamy sand, sandy loam	any level	DO NOT USE
MEDIUM and FINE Loam, silt loam, silt, sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	less than 1.0%	DO NOT USE
	more than 1.0%	1.8-2.4 qts.

*Do not use in NM or TX, except in the TX Panhandle, Gulf Coast, and Blacklands areas. Do not apply preplant incorporated in AZ or the Imperial Valley of CA.

Precautions: To avoid possible crop injury, (1) Do not apply Bicep Lite II on highly alkaline soils (pH greater than 8.0) or on eroded areas where calcareous subsoils are exposed. (2) Do not apply Bicep Lite II when sorghum is planted in deep furrows because heavy rains following application can cause excessive concentrations of herbicide in the furrow. (3) Do not apply to sorghum grown under dry mulch tillage. (4) Injury may occur if both Bicep Lite II applied early preplant, preplant surface, preplant incorporated, or preemergence and an at-planting systemic insecticide applied in-furrow are used. (5) In addition, sorghum growing under stress caused by minor element deficiency may be injured by Bicep Lite II.

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 or Screen. 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. (3) Injury may occur to soybeans planted the year following application on soils having a calcareous surface layer. (4) In eastern parts of the Dakotas, KS, western MN, and NE, do not rotate to soybeans for 18 months following application if the rate applied to corn or sorghum was more than 2.0 lbs. a.i. of atrazine or equivalent band application rate, or soybean injury may occur. (5) If applied after June 10, do not rotate with crops other than corn or sorghum the next year, or crop injury may occur. (6) 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 follow corn or sorghum, or a crop of untreated corn or sorghum is to precede other rotational crops. (7) Do not plant sugar beets, tobacco, vegetables (including dry beans), spring-seeded small grains, or small-seeded legumes the year following application, or injury may occur. (8) All other crops may be planted 15 months after application.

BICEP LITE II COMBINATIONS – CORN

Always follow label instructions for tank-mix products when mixing with Bicep Lite II.

Tank Mixture with Dual, Princep, Bladex, or Extrazine II – Conventional Tillage

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

Princep (4L or Caliber 90): Add up to 1.0 qt. of Princep 4L (1.1 lbs. of Caliber 90) per acre to the rate of Bicep Lite II recommended in Table 1 in the northeastern U.S. where heavy infestations of crabgrass or fall panicum are expected.

Bladex (4L or 90DF): Add up to 2.0 qts. of Bladex 4L (2.2 lbs. of 90DF) per acre. When Bladex is added, the rate of Bicep Lite II suggested in Table 1 should be reduced by not more than 25% for a given soil texture in the Clarion-Nicollet-Webster soil association in northern IA and southern MN, or in other areas where soybean rotational concerns exist. **Note:** Crop injury may occur if this combination is applied postemergence to corn.

Extrazine II: Add 1.0-2.0 qts. of Extrazine II 4L (1.1-2.2 lbs. of Extrazine II DF) per acre to the rate of Bicep Lite II in Table 2. For purposes of calculating the total atrazine rate, Extrazine II 4L contains 0.25 lb. of atrazine per quart. Do not exceed a total of 2.5 lbs. of atrazine a.i. per acre per calendar year. **Note:** Crop injury may occur if this combination is applied

postemergence to corn.

Note: Check the compatibility of Bicep Lite II tank mixtures with Bladex or Extrazine II before mixing in spray tank by using the procedure described under **Application in Water or Fluid Fertilizers**. Always use Unite (or an equivalent compatibility agent) at 2.0 pts./100 gals. when using Bladex 90DF in tank mixtures with Bicep Lite II. Compatibility testing is especially critical when using Bladex 90DF combinations. Always add Bladex or Extrazine II to the spray tank before Bicep Lite II, regardless of which Bladex or Extrazine II formulation is used.

Tank Mixture of Bicep Lite II Alone or Bicep Lite II + Bladex, Dual, Extrazine II, or Princep, with Gramoxone Extra, Landmaster BW, 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 Extra, Landmaster BW, or Roundup should be tank-mixed with Bicep Lite II alone or with Bicep Lite II + Bladex, Dual, Extrazine II, or Princep. When used as directed, the Gramoxone Extra portion of the tank mixture controls most emerged annual weeds and suppresses many perennial weeds. Landmaster BW and Roundup combinations will control emerged annual and perennial weeds when applied as directed on its label. The Bicep Lite II portion of the tank mixture provides preemergence control of the weeds listed on this label in the **Bicep Lite II Alone** section for corn. The addition of Bladex, Dual, Extrazine II, or Princep offers the advantage indicated for each under **Conventional Tillage**.

Application: Apply before, during, or after planting, but before corn emerges, at the appropriate rate in Table 7. Two qts. of Bladex 4L (2.2 lbs. of 90DF), or 1/2 pt. of Dual, or 1.0-2.0 qts. of Extrazine II 4L (1.1-2.2 lbs. of Extrazine II DF), or 1.0 qt. of Princep 4L (1.1 lbs. of Caliber 90) per acre may be added to the rate of Bicep Lite II recommended in Table 7. Add Gramoxone Extra, Landmaster BW, or Roundup at labeled rates.

Apply in 20-60 gals. of water per acre with conventional spray equipment.

Tank Mixture of Bicep Lite II Alone or Bicep Lite II + Bladex, or Extrazine II, with 2,4-D or 2,4-D + Banvel 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, Bicep Lite II may be applied in combination with Bladex or Extrazine II. When used as directed, the Bicep Lite II portion of the tank mixture provides preemergence control of the weeds listed on this label in the **Bicep Lite II Alone** section for corn. The addition of Bladex or Extrazine II offers the advantage indicated for each under **Conventional Tillage**.

Application: Apply Bicep Lite II with Bladex or Extrazine II before, during, or after planting, but before corn emerges, at the appropriate rate of Bicep Lite II in Table 7 for the burndown of small existing annual weeds. Up to 2.0 qts. of Bladex 4L (2.2 lbs. of 90DF), or 1.0-2.0 qts. of Extrazine II 4L (1.1-2.2 lbs. of Extrazine II DF) per acre may be added to the rate of Bicep Lite II recommended in Table 7.

Where heavy crop residues exist, add an appropriately labeled 2,4-D amine or low volatile ester to the spray tank last and apply in a minimum of 25 gals. of carrier per acre.

As carriers, nitrogen solutions and complete liquid fertilizers, applied before corn emergence, enhance burndown of existing weeds, and therefore are recommended instead of water. Add X-77® surfactant at 1.0-2.0 qts./100 gals. of diluted spray, or another surfactant cleared for use on growing crops at its recommended rate. Apply before weeds exceed 3 inches in height. If alfalfa is present, add Banvel to the spray mixture at 0.33-0.5 pt./A and apply before alfalfa exceeds 6 inches in height.

For fields with existing sod grasses (e.g., bromegrass, orchardgrass, rye, or timothy), when existing weeds exceed 3 inches in height or when very dry conditions exist, add Gramoxone Extra at the rate of 2.5 pts./A in place of, or in addition to, 2,4-D as indicated above. Do not apply Gramoxone Extra in suspension-type liquid fertilizer. Observe all directions for use, precautions, and limitations on the respective product labels when applying these products in tank-mix combination.

Note: When applying Bicep Lite II and Bladex or Extrazine II in tank-mix combination, follow directions under **Conventional Tillage** to ensure compatibility of these products in the tank mixture. Do not exceed a total of 2.5 lbs. of atrazine a.i. per acre per calendar year.

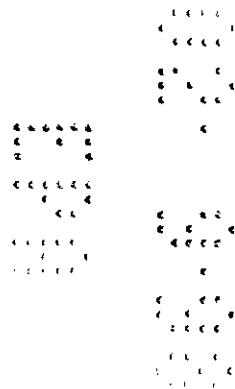


Table 7: Bicep Lite II for Minimum-Tillage or No-Tillage Corn

Soil Texture	Broadcast Rate Per Acre
COARSE Sand, loamy sand, sandy loam	1.8 qts.
MEDIUM Loam, silt loam, silt	2.4 qts.
FINE Sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	2.4-3.5 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 Lite II per acre.

Tank Mixture with Linuron for Control of Lambsquarters and Pigweed

For prolonged control of lambsquarters and pigweed in DE, MD, NJ, NY, PA, VA, and WV, Bicep Lite II may be applied preemergence in combination with linuron. Apply Bicep Lite II according to the rates in Table 1 and linuron according to the following rates.

Soil Texture	Broadcast Rate Per Acre
Sandy loam (1-3% organic matter)	0.67 lb. Lorox*
Sandy loam (3-6% organic matter)	1.0 lb. Lorox*
Medium- and fine-textured soils (1-6% organic matter)	1.0 lb. Lorox*

*When using Lorox L or Lorox DF, use equivalent rates. One pt. of Lorox L equals 1.0 lb. of Lorox DF.

Follow instructions and precautions on the Bicep Lite II and Lorox labels when tank-mixing these products.

Rotational Crops: Follow the crop rotation instructions in the **Bicep Lite II Alone** section for corn.

BICEP LITE II COMBINATIONS - FIELD CORN ONLY

Tank Mixture with Broadstrike* + Dual® for Preemergence Weed Control in Field Corn Only

Reduced rates of Broadstrike+Dual herbicide and Bicep Lite II herbicide may be tank-mixed for control of several annual grasses and broadleaf weeds in field corn. In addition to the weeds listed as controlled on the Bicep Lite II label, this mixture will control velvetleaf and triazine-resistant populations of lambsquarter, pigweed and velvetleaf. Weeds partially controlled by this tank-mix include those under the **Weeds Partially Controlled** section under **Bicep Lite II Applied Alone** plus common ragweed and morningglory. Control of a few weeds can be erratic. Refer to the **Weeds Controlled** section of this label under **Bicep Lite II Applied Alone** for further information.

The Broadstrike+Dual and Bicep Lite II tank mix may be applied preplant incorporated, preemergence, or applied postemergence through the "spike" stage of corn growth, but before weed emergence. When applied postemergence to the crop, apply only with water before corn is 2 inches tall and first true leaf is unfurled. Target weeds which have emerged at the time of application may not be controlled.

Mixing Instructions

Fill the spray tank 1/4 to 1/2 full with water or liquid fertilizer and start agitation. Add the required amount of Bicep Lite II and allow to become fully dispersed, then add the required amount of Broadstrike+Dual, then add the rest of the water or liquid fertilizer. For tank mixtures with liquid fertilizer, always check compatibility as described on the labels for Bicep Lite II and Broadstrike+Dual.

Precautions and Restrictions:

- Do not apply more than 2 weeks before planting.
- Do not apply to field corn grown for seed.
- Do not use when Counter® or Thimet® insecticides are to be applied due to the risk of severe crop injury.
- Plant corn at least 1 1/2 inches deep.
- Refer to the product labels for Broadstrike+Dual and Bicep Lite II for



specific use restrictions, use precautions, and rotational crop intervals. The most restrictive provisions on either label shall apply.

Table 8. Broadcast Application Rates Per Acre For Preemergence Weed Control in Field Corn

Soil Texture	Less Than 3% Organic Matter*			Greater Than 3% Organic Matter		
	Broadstrike+			Broadstrike+		
	Dual (pints)	+	Bicep Lite II (pints)	Dual (pints)	+	Bicep Lite II (pints)
Coarse	1.5	+	1.5	1.5	+	1.5
Medium	1.5-1.75**	+	2.0	1.75	+	2.0
Fine	1.75	+	2.0	2.0	+	2.0-2.5**

*Application on soils with <1.5% organic matter may result in unacceptable crop injury.

**Use the higher rate in fields with heavy weed pressure.

Follow directions in the **Bicep Lite II Applied Alone** section of this label for improved control of certain weeds.

Add 1-2 pts./acre of AAtrex 4L or equivalent rates of AAtrex Nine-O for an improved spectrum of broadleaf control and for more effective burndown in no-till or minimum till situations. Follow atrazine rate restrictions on the AAtrex label.

Note: Triazine "resistant" weeds (triazine tolerant biotypes) are controlled by the tank mixture of Broadstrike+Dual and Bicep Lite II.

TANK MIXTURE WITH EXCEED® OR SPIRIT™ AND ACCENT® FOR SALVAGE WEED CONTROL IN FIELD CORN ONLY

Bicep Lite II + Exceed: Apply 1.5 to 2.0 qts./A of Bicep Lite II + 1.0 oz./A of Exceed to corn that is 4 to 12 inches tall. The application may be broadcast, semi-directed, or directed. The Bicep Lite II rate is based on soil texture, with 1.5 qts./A on coarse, and 2.0 qts./A on medium and fine soils. Add a nonionic surfactant at 0.25% v/v.

This mixture is effective for control of many annual broadleaf weeds and some grasses. A few instances of broadleaf weed control antagonism have been observed with this combination. Control of certain annual grasses can be improved with the addition of Accent.

Bicep Lite II + Exceed + Accent: Apply the same rates of Bicep Lite II and Exceed as mentioned above. Add Accent at 0.33 oz./A for more effective control of certain annual grasses. Apply to field corn between 4 and 12 inches. Add a nonionic surfactant at 0.25% v/v.

Bicep Lite II + Spirit: Spirit herbicide at 1.0 oz./A can be substituted in place of Exceed in the above combinations in field corn only.

Notes: Do not use fertilizer or crop oil concentrate with these mixtures or injury to field corn may occur. The combination of Bicep Lite II with other products for postemergence weed control in corn is generally not recommended. **These combinations may cause injury and/or weed control concerns that would not exist when the products are used separately.** A certain inherent risk is involved with the various combinations of these products used postemergence in corn. [It should be noted that early preplant, preplant incorporated, or preemergence control of these weeds would usually provide more timely weed control resulting in higher yields than total postemergence treatments.]

Mixing Order

Add these products to the tank mix in the following order:

1. Products in water-soluble bags should be added first.
2. Bicep Lite II
3. Additives

Precautions: (1) Follow all label instructions, precautions, and rotational restrictions for individual products when making these applications to field corn. When Bicep Lite II is applied after June 10, crop injury may occur the following year if you rotate to crops other than corn or sorghum. (2) In-row weed control may be reduced because of lack of coverage when applied to corn over 4 inches tall.

BICEP LITE II COMBINATIONS – GRAIN SORGHUM (SEED TREATED WITH CONCEP OR SCREEN)

Tank Mixture of Bicep Lite II with Gramoxone Extra, Landmaster BW, or Roundup for Minimum-Tillage or No-Tillage Systems

In minimum-tillage or no-tillage systems where grain sorghum is planted directly into a cover crop, stale seedbed, established sod, or previous crop residues, the contact herbicides Gramoxone Extra, Landmaster BW, or Roundup may be tank-mixed with Bicep Lite II. When used as directed, the Gramoxone Extra portion of the tank mixture controls most emerged annual weeds and suppresses many perennial weeds.

Landmaster BW or Roundup combinations will control emerged annual and perennial weeds when applied as directed on its label. The Bicep Lite II portion of the tank mixture provides preemergence control of the weeds listed on this label in the **Bicep Lite II Applied Alone** section.

Refer to the label of each product used in combination and observe the planting details, restrictions, and all other precautions and limitations.

Application: Apply before, during, or after planting, but before grain sorghum emerges, at the appropriate rate in Table 9. Add Gramoxone Extra, Landmaster BW, or Roundup at labeled rates.

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

Table 9: Bicep Lite II for Minimum-Tillage or No-Tillage Grain Sorghum* (Seed treated with Concep or Screen)

Soil Texture	Organic Matter	Broadcast Rate Per Acre
COARSE Sand, loamy sand, sandy loam	any level	DO NOT USE
MEDIUM and FINE Loam, silt loam, silt, sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	less than 1.0%	DO NOT USE
	1.0-1.5%	1.8 qts.
	more than 1.5%	2.1-2.4 qts.

*Do not use in NM or TX, except in the TX Panhandle, Gulf Coast, and Blacklands areas. Do not apply preplant incorporated in AZ or the Imperial Valley of CA.

Precautions: To avoid possible crop injury, (1) Do not apply Bicep Lite II on highly alkaline soils (pH greater than 8.0) or on eroded areas where calcareous subsoils are exposed. (2) Do not apply Bicep Lite II when sorghum is planted in deep furrows because heavy rains following application can cause excessive concentrations of herbicide in the furrow. (3) Do not apply to sorghum grown under dry mulch tillage. (4) Injury

may occur if both Bicep Lite II applied early preplant, preplant surface, preplant incorporated, or preemergence and an at-planting systemic insecticide applied in-furrow are used. (5) In addition, sorghum growing under stress caused by minor element deficiency may be injured by Bicep Lite II.

Rotational Crops: Follow the crop rotation instructions in the Bicep Lite II Alone section.

STORAGE AND DISPOSAL

Storage

Ground water contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material.

Pesticide Disposal

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. 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

Refer to label on container for container disposal instructions.

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 1-800-888-8372, day or night.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed, inhaled, or absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing vapor or spray mist.

Statement of Practical Treatment

If in eyes: Flush eyes with plenty of water. Get medical attention if irritation persists.

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.

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

Note to Physician: If ingested, induce emesis or lavage stomach. Administration of an aqueous slurry of activated charcoal should be considered.

Personal Protective Equipment

Applicators and other handlers (other than mixers and loaders) must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Chemical-resistant footwear plus socks

Mixers and loaders must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Protective eyewear

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

Engineering Control Statements

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations**Users should:**

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters. 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 Lite II 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 ground water 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 equipment.

This product may not be mixed/loaded or used within 50 ft. of all wells, including abandoned wells, drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 ft. of any well are prohibited, unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash-water, and rain-water that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site.

States may have in effect additional requirements regarding well-head setbacks and operational area containment.

This product may not be mixed or loaded within 50 ft. of perennial or intermittent streams and rivers, natural or impounded lakes and reservoirs. This product may not be applied aerially or by ground within 66 ft. of the points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 ft. around natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66-ft. buffer or setback from runoff entry points must be planted to crop, or seeded with grass or other suitable crop.

Tile-Terraced Fields Containing Standpipes: To ensure protection of surface water from runoff through standpipes with tile-outlets in terraced fields, one of the following options may be used:

1. Do not apply this product within 66 ft. of standpipes in tile-outletted terraced fields.
2. Apply this product to the entire tile-outletted terraced field and immediately incorporate it to a depth of 2-3 inches in the entire tile-outletted terraced field.
3. Apply this product to the entire tile-outletted terraced field under a no-till practice only when a high crop residue management practice is practiced. High crop residue management practice is described as a crop management practice where little or no crop residue is

removed from the field during and after crop harvest.

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