PRECAUTIONARY STATEMENTS

2

1

HAZARD TO HUMANS AND DOMESTIC ANIMALS

WARNING

May be fatal if swallowed. Causes eye irritation. Harmful if inhaled or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating or smoking. Avoid breathing dust or spray mist. Remove contaminated clothing and wash before reuse. For 24-hour emergency medical assistance, call: (713) 473-5461.

Keep out of reach of domestic animals, particularly cattle. Consumption of this product, spray solutions, or water contaminated with product can result in serious illness or possible death of bovines.

ENVIRONMENTAL HAZARDS

Keep out of lakes, streams or ponds. Do not contaminate water by cleaning of equipment or disposal of wastes. In case of significant spill, call (713) 473-9461 or CHEMTREC (800) 424-9300.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

Storage: Do not contaminate water, food, or feed by storage or disposal.

<u>Pesticide Disposal</u>: Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to applicable federal, state, or local procedures.

<u>Container Disposal</u>: Destroy used containers; do not reuse for any purpose. Destroy containers according to approved Federal, State or local procedures. Triple rinse and dispose of containers in a sanitary landfill or by incineration if permitted by State and local authorities. If burned, keep out of smoke.

CONDITIONS OF SALE AND WARRANTY

SHELL AND THE SELLER OFFER THIS PRODUCT, AND THE BUYER AND USER ACCEPT THIS PRODUCT, ONLY UNDER THE FOLLOWING AGREED CONDITIONS OF SALE AND WARRANTY: The directions for use of this product are believed to be reliable and should be followed carefully. However, it is impossible to take into account all variables and to eliminate all risks associated with its use. Injury or damage may result because of conditions which

are beyond the control of Shell or the seller, including soil texture, organic matter content of soil, weather, presence of other materials, and the manner of use or application. Shell warrants only that this product conforms to the chemical description on the label and is believed to be reasonably fit for the purposes referred to in the Directions for Use when used as directed under normal conditions. SHELL MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. Any variation or exception from this warranty must be in writing and signed by an authorized Shell representative.

3

LIMITATION OF LIABILITY

Shell's liability, whether or not based on negligence, breach of expressed or implied warranty, strict liability or any other legal cause, is limited to the cost of this product. In no case shall Shell or the Seller be liable for consequential, incidental, or indirect damages, such as loss of crops, resulting from the use or handling of this product.

GENERAL INFORMATION

BLADEX 4L Herbicide is a selective herbicide for the control of annual grasses and broadleaved weeds in field corn, sweet corn, popcorn, cotton, grain sorghum, and fallow cropland.

Consult your local Agricultural Extension Agent for help in determining soil texture, organic matter content, and the most appropriate herbicide rate for local conditions.

As a preemergence herbicide, BLADEX 4L is active mainly through the roots, and therefore, its effect on weeds is dependent on adequate rainfall or sprinkler irrigation to move the herbicide into the root zone. Moisture should be sufficient to wet the top 1-1/2 to 2 inches of soil or make the soil too wet to cultivate; for most soils 1/2-3/4" of moisture is sufficient. A rotary hoeing or shallow cultivation is recommended if a rainfall or sprinkler irrigation has not occurred within about ten days after application of BLADEX 4L. Under conditions which delay weed germination, such as low temperatures, lack of soil surface moisture, or when germination extends over a long period, the effectiveness of the herbicide may be impaired. Rotary hoeing, a shallow cultivation or a postemergence herbicide treatment may be of benefit under these circumstances. When applied as a post-emergence herbicide, BLADEX 4L is also active through foliage as well as through the roots.

OBSERVE ALL CAUTIONS AND LIMITATIONS ON LABELING OF ALL PRODUCTS USED IN MIXTURES.

FA2195012/1

.

APPLICATION DIRECTIONS GENERAL MIXING AND SPRAYING DIRECTIONS

If another pesticide has been used previously, be sure the sprayer tank, boom, and nozzles have been thoroughly flushed with clean water.

Sufficient jet or mechanical agitation should be provided during the filling operation and during application to keep the spray mixture uniformly suspended. Fill the spray tank at least one-half full of clean water and while pump and agitator are running, add the recommended amount of BLADEX 4L to the tank, then fill with water to the desired level. For tank mixes, once the BLADEX 4L is completely suspended in the water, add the recommended amount of other products to the tank while filling with water to the desired level. Add all wettable powders before liquids. For emulsible concentrates (EC), such as Lasso™ or Dual™, pre-mixing these products in equal amounts of water or pouring the products directly into the water stream as the tank is filling will aid in achieving compatible tank-mixtures. Fluid fertilizers may replace all or part of the water as carrier. Always check the compatibility of BLADEX 4L or BLADEX 4L tank mixes and fluid fertilizer, according to the Jar Test for Compatability instructions below, before the herbicide and fertilizer are mixed in the spray tank.

For use with a surfactant or vegetable oil, completely suspend the BLADEX 4L in water and fill the tank before adding the surfactant or vegetable oil.

Allow the pump to run several minutes before application to ensure proper suspension and mixing of BLADEX 4L or other various mixtures. If BLADEX 4L or tank-mix combinations of BLADEX 4L with atrazine are allowed to stand in a spray tank or nurse tank for an extended period (several hours or overnight), provide good agitation for several minutes before application to ensure proper suspension and mixing. Tank-mix combinations of BLADEX 4L with other products should be continuously agitated and should be mixed and applied as soon as possible.

Apply with flat fan (even flat fan for band application) or flood nozzles in conjunction with 50 mesh nozzle screens and in-line screens. Carefully follow the nozzle manufacturer's recommendation for correct nozzle height, positioning and spacing. Check for uniform distribution of spray droplets. Apply at pressures of 15-35 psi to reduce chemical loss due to fine mist drift.

Apply the spray mixture to the soil surface using at least 15 gals./A. for ground application. Apply by air using a minimum of 4 gals./A. of spray mixture.

Check nozzles, pressure, and output regularly to ensure proper calibration and application.

FA2195012/1

ALL RATES INDICATED ON THIS LABEL ARE BROADCAST APPLICATION RATES PER ACRE UNLESS OTHERWISE STATED. FOR BAND APPLICATION, USE PROPORTIONATELY LESS.

JAR TEST FOR COMPATIBILITY

- A. Add one pint of liquid fertilizer or other carrier to be used to two quart jars. Mark one quart jar "with" and the other jar "without."
- B. To the jar marked "with" add 1/4 teaspoon of a suitable compatibility agent. Shake gently for 5 to 10 seconds to mix. (1/4 teaspoon/pint = 2 pints/100 gallons.)
- C. To each jar add the appropriate amount of herbicides corresponding to the herbicide rate and spray volume selected (see following table). If more than one herbicide is used, add them separately; wettable powders first, flowables second, and emulsible concentrates last. Shake gently for 5 to 10 seconds after each addition.
- D. Let stand one-half hour and make observations. If any separation, agglomeration, or precipitation has occurred, again shake the jar 10 to 15 seconds.
 - 1. If mixtures appear to be compatible in both jars, the herbicides can probably be used without a compatibility agent.
 - If the mixture in the jar marked "with" is compatible but the one in the jar marked "without" is incompatible, a compatibility agent should be used.
 - 3. If both mixtures are incompatible, the liquid fertilizer and herbicides should not be used in the same spray tank.

FA2195012/1

5

JAR TEST FOR BLADEX. 4L COMPATIBILITY WITH LIQUID FERTILIZER

Gallons Liquid Fertilizer per acre	15	20	25	30	40
Teaspoons of BLADEX 4L* pint of fertilizer	- 1-1/2	1-1/4	1	3/4	1/2

*Based on 1 qt. BLADEX 4L (1 pound active ingredients) per acre in fertilizer volumes indicated. Increased volume proportionately to correspond with intended field rate in terms of pounds BLADEX 4L per acre (e.g., for field rate of 4 qts. BLADEX 4L in 20 gallons fertilizer per acre, add 7 teaspoons BLADEX 4L to 1 pint fertilizer for compatibility testing purposes. CALCULATION: At 4 qts. BLADEX + 4L rate/20 gallons fertilizer, 4×1 -1/4 teaspoons = 5 teaspoons BLADEX 4L/pint of fertilizer).

It a test such as outlined indicates that components of a proposed mix are compatible, the applicator still has the responsibility of combining materials in sequence to the spray tank in accordance with directions prescribed on the label of the herbicides or pesticides involved.

FA2195012/1

Tests have indicated that compatibility agents, noted below by the various tank mix combinations, may give improved compatibility in liquid fertilizers.

7

TANK MIX COMBINATION	COMPATIBILITY AGENTS		
BLADEX 4L/Lasso (Liquid Fertilizer Grade)	Probably not needed in 28-0-0, 10-34-0. Compex, may help in others.		
BLADEX 4L/Sutan+™ 6.7E	Probably not needed in 28-0-0. Incompatible in 10-34-0. Unite, Spray-Mate, Kem-Link, may help in others.		
BLADEX 4L/Dual 8E	Probably not needed in 28-0-0. Unite, Spray-Mate, Ivory Liquid may help in others.		

Application in Center Pivot Sprinkler Irrigation Water (For use in Midwest and Plains States only.

BLADEX 4L alone or in tank-mix combinations with atrazine or Lasso 4 EC, may be applied in center pivot sprnkler irrigation water. Apply anytime after planting but prior to crop emergence. Pre-mix the herbicide(s) in water to form a slurry and inject at a carefully calibrated rate into the irrigation water during the entire period of the run. Mix as directed for a spray application. Provide good agitation for the herbicide mixture throughout the application.

Select the correct application rate of BLADEX 4L or the BLADEX tank-mix combinations from the rate tables listed on this label.

Example:

A center pivot sprinkler that is 1320 feet long (1/4 mile) will irrigate 125.7 acres. A sandy loam soil containing 2% organic matter will require 2 quarts of BLADEX 4L per acre.

125.7 A x 2 qts. = 251.4 quarts BLADEX 4L

 $\frac{251.4}{4}$ = 62.9 gallons BLADEX 4L

Mixing tank size 600 gallons. Sprinkler takes 20 hours to apply 1/2 inch of water to the complete circle; inject rate =

 $\frac{600}{20}$ = 30 gal./hr/ or 0.5 gal./minute

Calibrate injection pump to deliver herbicide mix into the irrigation system at the rate of 30 gallons per hour or 0.5 gallons per minute. Add 62.9 gallons of BLADEX 4L to the tank.

For tank-mix combinations select the correct dosage rate and follow the same procedures outlined above for each herbicide component.

Apply in 1/2 to 1 acre inch of water. Use this method of application only with irrigation systems designed for uniform application of water.

Additional Use Precautions

- Apply product or tank mixes only through center pivot irrigation systems containing anti-siphon and check valves which will prevent . water source contamination and overflow of the slurry tank and containing interlocking controls between metering device and the water pump to ensure simultaneous shut off.
- 2. Inject the herbicide mix with a positive displacement pump into the main line ahead of a right angle turn to ensure adequate mixing.
- 3. Application of more than label recommended quantities of irrigation water per acre may result in decreased product performance by removing the chemical from the zone of effectiveness.
- 4. Do not apply when wind speed favors drift, when system connectors leak, when nozzles do not provide uniform distribution or when lines containing the product must be drained and dismantled.
- 5. Greater accuracy in calibration and distribution will be achieved by injecting a large volume or more dilute slurry per hour.
- 6. Where sprinkler distribution patterns do not overlay sufficiently, unacceptable weed control may result. Where sprinkler distribution patterns overlap excessively, crop injury may result.

FA2195012/1

8

WEEDS CONTROLLED BY BLADER AL ALONE AND IN COMBINATION WITH OTHER HERBICIDES ON CORN

Grasses

Annual bluegrass	i` uan ⊨um	Stinkgrass (Indian
Annual fescues	2、通行で、こうもで通り	(Uvennass)
Annual (Italiany myeris	and the second	wild bat .
Barnyardgrass*	steel fortal	Witchgrass
Bullgrass	connection (seemaling)	
C ra bgrass	the great ce	

produced eaves

i orida pustey

Annual groundcherry Annual morningglory Annual sedge Black mustard Buffalobur Buttercup (annual) Carpetweed Cocklebur² Common chickweed Common groundsel Common mallow Common purslane Corn spurry Curly dock (seedling) Fidaleneck

(Florida purstane) Hedge mustard Jims nweed¹ Kochia Ladystnump Lambsquarters Mayweed Nightshade (annual) Pigweed¹ Pineappleweed Plantain Poorjoe Prickly sida (teaweed) Prostrate knotweed

Postrate spurge Ragweed Russian Thistle Shepherdspurse Smallflower galinsoga 'Smartweed (Pennsylvania) Sunflower² (wild, annual, common) Tarweed cuphea (Gumweed) Velvetleaf Wild buckwheat Wild mustard Wild radish Wild turnip

1

¹Under conditions such as low temperatures, lack of soil surface moisture or other factors that may cause delay in germination of the seeds, the effectiveness of BLADEX may be impaired against these weeds.

²The degree of control will be reduced if soil moisture and temperature conditions cause deep germination of the seed.

FA2195012/1

CCRN

Preemergence-Preplant

Apply BLADEX treatments just before, at or after planting but before crop has emerged. Avoid removal of treated soil from seedrow prior to or during the planting operation.

BLADEX may also be applied early prior to planting or in a split application if pre-season weed control is desired. For split applications, do not exceed the total amount of Bladex for the soil texture and organic matter shown in Table 1. If Bladex is applied early, more than 15 days before planting, a split application of Bladex or some other herbicide treatment may be necessary at or after planting to provide additional length of weed control.

A rotary hoeing is recommended for preemergence applications which do not receive adequate rainfall or sprinkler irrigation to wet the top $1\frac{1}{2}-2^{"}$ of soil within about 10 days after application.

If a BLADEX mixture is to be incorporated, except as noted, single or two pass incorporation is acceptable. Care should be taken to incorporate the BLADEX mixture no deeper than the top two inches of soil.

BLADEX Applied Alone

Use at the proper rate for soil texture and organic matter indicated in Table 1. Any rotational crop may be planted in the fall or following spring following this treatment.

FA2195012/1

Quarts of BLADEX 4L Percent Organic Matter in Soil* 5% 4 Soil lexture 13 2% Over Description Less Than 1% 3% 4% Sand, . DO NOT USE 1.5 2.25 2.75 3.25 Loamy Sand 1.25 1.75 2.0 2.5 3.5 Sandy Loam 1.25 3.0 ⊣\ Loam, Silt Loam, 2.0 2.5 3.0 3.5 4.0 1.5 Silt Sandy Clay Loam, Clay Loam, 2.0 2.5 3.0 3.5 4.0 4.5 Silty Clay Loam Sandy Clay, Silty Clay, 3.0 4.0 4.5 2.75 3.5 4.75 Clay NOI RECOMMENDED Peat or Muck

PREEMERGENCE BROADCAST APPLICATION RATES PER ACRE FOR BLADEX 4L APPLIED ALONE ON CORN

* For organic matter content between those listed, adjust the rate proportionately.

FA2195012/1

;'

-3

· · ·

ŧ

BLADEX COMBINATIONS

BLADEX plus Atrazine

Use at the proper rate for soil texture and organic matter indicated in Table 2. Table 2 provides rates for generally weedy conditions. The ratio of the amounts of each herbicide may be adjusted as necessary for particular weed conditions as long as the combined rate of the two products does not exceed the combined rate for the soil shown in Table 2. For grassier conditions use a ratio that contains higher levels of Bladex (3:1). For fields with more broadleaves use a ratio that contains higher levels of atrazine (1:1).

Rotational crops: (1) Plant only corn, peanuts, sorghum, or soybeans the year following the use of this mixture. (2) If soybeans are to be planted, injury may occur due to the carryover of atrazine. (3) If applied after June 10, do not rotate with crops other than corn or sorghum the next year or 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 not treated with atrazine 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.

PREEMERGENCE BROADCAST APPLICATION RATES PER ACRE FOR TANK-MIX COMBINATIONS OF BLADEX 4L PLUS ATRAZINE 4L ON CORN

	Qua	rts of BLA Percen	DEX 4L + Qua t Organic Ma	rts of Atra tter in Soi	<u>lzine 4L**</u>]*	
Soil Texture Description	Less Than 1	× 1%	2%	3%	4%	5% & Over
Sand, Loamy Sand	DO NOT USE	0.75+0.5	1.0+0.5	1.5+0.5	1.75+0.75	2.25+1.0
Sandy Loam	0.75+0.5	1.0+0.5	1.5+0.5	1.75+0.75	2.25+1.0	2.75+1.25
Loam, Silt Loam, Silt	1.0+0.5	1.5+0.5	2.0+0.75	2.25+1.0	2.75+1.25	3.25+1.25
Sandy Clay Loam, Clay Loam, Silty Clay Loam	1.5+0.5	2.0+0.75	2.25+1.0	2.75+1.25	3.25+1.25	3.5+1.25
Sandy Clay, Silty Clay, Clay	2.0+0.75	2.25+1.0	. 2. 75+1. 25	3.25+1.25	3.5+1.25	3.75+1.5
Peat or Muck			NOT RECO	MMENDED		

*For organic matter content between those listed, adjust the rate proportionately. **If Atrazine 80W is used, multiply rates shown by 1.25 to equal lbs. of Atrazine 80

....

FA2195012/1

BLADEX plus Lasso 4 EC

Use BLADEX 4L at the proper rate for the soil texture and organic matter shown in Table 3 plus 2 quarts per acre of Lasso. (Use 2.5 quarts Lasso on clay soils containing 5 percent organic matter and over). Any rotational crop may be planted the fall or spring following this treatment.

BLADEX plus Sutan+ 6.7E, or Eradicane¹⁴ 6.7E

Use BLADEX 4L at the proper rate for the soil texture and organic matter shown in Table 3 plus 1.8 quarts per acre of Sutan+ or Eradicane for control of many annual grasses and broadleaf weeds. (Use 2.4 quarts of Sutan+ or Eradicane on loam soils containing 5 percent or more organic matter, and clay loams and clays containing 4 percent or more organic matter). Do not use on sands and loamy sands of less than 1 percent organic matter and the light sandy soils of eastern coastal states. Do not use on corn seed stock.

Apply before planting. Incorporate the mixture immediat y upon application using power-driven cultivation equipment set for 2-3 inch depth, or a tandem disc set to cut to a depth of about 4 inches while operating at 4-6 mph. For thorough mixing, disc in two directions (cross disc), and follow with a harrow, drag, or other leveling device. Prior to the second discing, readjust the disc to prevent cutting deeper than 4 inches. BLADEX 4L may be applied preemergence as an overlay over previous incorporated Sutan+ or Eradicane if desired. Any rotation crop may be planted in the fall or spring following these treatments.

Existing stands of quackgrass, purple and yellow nutsedge must be turned under and thoroughly chopped up prior to chemical treatments.

Additional weeds controlled by Sutant or Eradicane combinations:

Grasses	Sandbur Shattercane (Wild Cane)* Texas Panicum Quackgrass (Eradicane only) Wild Proso Millet*
Perennial	Yellow Nutsedge (nutgrass)
Weeds	Purple Nutsedge (nutgrass)

*Suppression only--refer to Sutan+ or Eradicane label for appropriate supplement cultural and tillage practices.

For fields with moderate to heavy infestations of these weeds refer to the Sutan+ or Eradicane labels for appropriate higher rates.

FA2195012/1

í.

BLADEX Plus Dual 8E

Use BLADEX 4L at the proper rate for soil texture and organic matter shown in Table 3. Use Dual as follows:

SOIL TEXTURE	BROADCAST PATE PER ACRE
Coarse	
Sand, loamy sand, sandy loam	1.25 - 1.5 pints
Medium	
Loam, silt loam, silt	1.5 - 2.0 pints
Fine	
Sandy clay loam, silty clay loam, clay loam, sandy clay, silty clay, clay	1.5 - 2.5 pints

The low end of the rate range should be used for lowest organic matter soils and the rate increased as organic matter increases to a point that soils containing 4 percent organic matter or more require the highest rate shown for that soil texture. Refer to the Dual label for precautions on rotational crops.

	Quarts of BLADEX 4L Percent Organic Matter in Soil*					
Soil Texture Description	Less Than 1%	1%	2%	35	4%	5き & Over
Sand, Loamy Sand	0.6**	0.75	1.25	1.5	1.75	2.0
Sandy Loam	0.75	1.25	1.5	1.75	2.0	2.25
Loam, Silt Loam, Silt	1.25	1.5	1.75	2.0	2.25	2.5
Sandy Clay Loam, Clay Loam, Silty Clay Loam	1.5	1.75	2.0	2.25	2.5	2.75
Sandy Clay, Silty Clay, Clay	1.75	2.0	2.25	2.5	2.75	3.0
Peat or Muck			NOT REC	OMMENDED		

PREEMERGENCE BROADCAST APPLICATION RATES PER ACRE FOR BLADEX 4L USED IN TANK-MIX COMBINATIONS WITH LASSO, SUTAN+, ERADICANE, OR DUAL ON CCRN

*For organic matter content between those listed, adjust the rate proportionately.

**Do not use in the Atlantic Coastal Plain.

BLADEX plus Atrazine plus Lasso, Sutan+, Eradicane, or Dual

Use BLADEX 4L plus atrazine at the proper rate for soil texture and organic matter shown in Table 4. Use Lasso, Sutan+, Eradicane, or Dual according to rates shown in "BLADEX Combinations" in this section of the label.

Rotational crops: Refer to Rotational Crops section of "BLADEX plus Atrazine" in this section of the label.

TABLE 4

PREEMERGENCE BROADCAST APPLICATION RATES PER ACRE FOR BLADEX 4L PLUS ATRAZINE 4L USED IN TANK-MIX COMBINATIONS WITH LASSO, SUTAN+, ERADICANE, OR DUAL ON CORN

	Qua	rts of BLADI Percent o	<u>EX 4L + Qua</u> f Organic M	rts Atrazin atter in So	e 4L***	
Soil Texture Description	Less Than 1	5 15	2%	34	4%	5∛ & Over
Sand, Loamy Sand	0.4+0.2**	0.5+0.25	0.75+0.5	1.0-0.5	1.25+0.5	1.25+0.75
Sandy Loam	0.5+0.25	0.75+0.25	1.0+0.5	1.25+0.3	1.25+0.75	1.5+0.75
Loam, Silt Loam, Silt	0.75+0.5	1.0+0.5	1.25+0.5	1.25+0.75	1.5+0.75	1.75+0.75
Sandy Clay Loam, Clay Loam, Silty Clay Loam	1.0+0.5	1.25+0.5	1.25+0.75	1.5+0.75	1.75+0.75	2.0+0.75
Sandy Clay, Silty Clay, Clay	1.25+0.5	1.25+0.75	1.5+0.75	1.75+0.75	2.0+0.75	2.0+1.0
Peat or Muck			NOT RECO	MMENDED		

*For organic matter content between those listed, adjust the rate proportionately. **Do not use in the Atlantic Coast Plain.

***If Atrazine 80W is used, multiply rates shown by 1.25 to equal lbs. of Atrazine 81

FA2195012/1

17

Minimum or No-till Weed Control

BLADEX 4L applied alone or in compination with atrazine and/or Lasso or Dual according to the following directions will kill most existing small weeds and suppress many emerged perennial weeds when corn is planted into stalk ground (corn, sorghum), stubble ground (soybean, small grains), and any minimum-till situation. This treatment then provides residual control of annual weeds as in conventional tillage.

Apply BLADEX 4L alone or with other products according to the directions for those treatments in the Preemergence section of the label. Where heavy crop residues exist, the BLADEX rate shown in Tables 1, 2, or 3 should be increased by 25%. Add $\frac{1}{2}$ -1 pt./A of 2,4-D Low Volatile 6 lb. Ester (0.75-1.5 pt./A 2,4-D LV 4 lb. Ester). Add the 2,4-D LV to the spray tank last. Use a minimum of 25 gals/A. of carrier. Complete 'spray coverage of the weeds is essential for best performance. Nitrogen solutions and complete liquid fertilizers are the preferred carriers for this treatment as they help aid in the burndown of existing weeds. Add Ortho X-77^M surfactant at 1-2 qts. per 100 gals. of diluted spray, or other suitable surfactant at its recommended rate. Apply before weeds exceed 3" in height. For control of existing alfalfa add 1/3-1/2 pt/A. of Banvel^{1M} to the spray mixture. Apply before the alfalfa exceeds 6" in height.

For fields with existing sod grasses such as orchardgrass, bromegrass, rye or timothy, or when very dry conditions exist, or when existing weeds exceed 3" in height add Paraquat CL to the tank-mix. Use 2 pts/A. of Paraquat CL in combination with Bladex as described above in this section, except the 2,4-D LV may be omitted if desired. Do not apply Paraquat CL in suspension type liquid fertilizer.

POSTEMERGENCE

BLADEX Applied Alone

Use BLADEX 4L at the proper rate for the soil texture and organic matter shown in Table 5. This treatment may be used on peat or muck soils for burndown and suppression of existing weeds but will not provide residual control. Apply from crop emergence through the four-leaf stage of corn growth but before weeds exceed about 1-1/2" in height. Bo not appy over the top of corn if the firth leaf is visible. Apply in water only. Bo not spray emerged corn plants in a liquid fertilizer carrier.

Do not apply this treatment under cold, wet, weather conditions or to weather stressed or storm damaged corn. Yellowing of the corn may result from this treatment, particularly if cold, adverse growing conditions occur after application. Extended or extreme cold and wet conditions may reduce stands. Do not use on corn grown for seed. Do not apply to a field treated with BLADEX preemergence. Any rotational crop may be planted the fall or spring following this treatment.

FA2195012/1

POSTEMERGENCE BROADCAST APPLICATION RATES PER ACRE FOR BLADEX 4L ON CORN

		Quarts of BLADEX 4L Percent Organic Matter in Soil*				
Soil Texture	Less than 1%	L%.	2%	Over 2%		
Sand, Loamy Sand	DO NOT USE	1.25	1.5	2,0		
Sandy Loam	1.25	1.5	2.0	2.0		
Loam, Silt Loam, Silt	1.5	2.0	2.0	2.0		
All other textures	2.0	2.0	2.0	2.0		

*For organic matter content between those listed, adjust the rate proportionately.

BLADEX Combinations

BLADEX Plus Atrazine

Apply as directed in "Postemergence-BLADEX Applied Alone" section of this label. Use an amount of BLADEX 4L plus Atrazine 4L equal to the rate shown in Table 5 for the proper soil texture and organic matter. To determine the amount of BLADEX 4L to use multiply the rate in Table 5 by 0.7. To determine the amount of Atrazine 4L to use, multiply the rate shown in Table 5 by 0.3. (For the 2.0 qts/A, rate shown in Table 5, use 1.5 qts/A, of Bladex 4L plus 0.5 qts/A, of Atrazine 4L.)

Rotational Crops: See Rotational Crops section in the "Preemergence-BLADEX Plus Atrazine" section of this label.

BLADEX Plus Banvel

Apply as directed under "Postemergence - BLADEX Applied Alone" section of this label. Add 1/2 - 2/3 pt/A. of Banvel to the mixture.

FA2195012/1

6.9

.

COTTON

PREEMERGENCE USE

Weeds Controlled

Annual morningglory Cocklebur Prickly sida (teaweed) Spurge

BLADEX 4L Herbicide is a selective preemergence herbicide for early season weed control in cotton. Supplemental practices (such as directed postemergence BLADEX 4L application) may be necessary to control late season weeds. BLADEX 4L can be used on cotton either alone, as an overlay following a preplant incorporated application of Treflan™ or in a tank-mix combination with Zorial™ 80WP. Apply preemergence only in the states of Alabama, Arkansas, Louisiana, Mississippi, Missouri, Oklahoma, Tennessee, and some areas of Texas (Texas Gulf Coast/Costal Bend and Blacklands only).

Carefully match the Bladex rate with the soil texture. Do not use on fields where the soil texture changes from coarse to fine. Avoid overlapping the spray pattern or overdosing the field with BLADEX 4L. Application rates above those recommended for the soil texture can result in yellowing or stunting of the crop and may result in stand reduction.

While cotton exhibits tolerance to BLADEX 4L, adverse growing conditions such as excessive rains, standing water or cold weather may result in stand reduction.

DO NOT GRAZE OR FEED FOLIAGE FROM TREATED AREAS TO LIVESTOCK.

BLACEX Applied Alone or as an Overlay

Apply BLADEX 4L at planting, or after planting but before the crop has emerged. Use BLADEX 4L at the proper rate for soil texture and organic matter shown in Table 6. Any rotational crop may be planted the fall or spring following this treatment. Should the cotton stand be lost, the field can be replanted to cotton or soybeans.

FA2195012/1

21

l

PREEMERGENCE BROADCAST APPLICATION RATES PER ACRE FOR BLADEX 4L ON COTTON

SOIL TEXTURE (Must Contain at least 1% Organic Matter)	Soil Texture	Organic	ADEX 4L Matter Over 1.5%
Coarse Soils	Sandy loam	0.8	0.8
Medium Soils	Silt and silt loam	0.8 - 1.0	1.0
	Loam, clay loam, sandy clay loam, and sandy clay	1.2 - 1.6	1.6
Fine Sails	Silty clay loam, silty clay and clay	1.6 - 2.0	2.0

Do not use BLADEX 4L on coarse soils (sands and loamy sands) containing more than 70 percent sand. Do not use BLADEX 4L on soils containing less than 1 percent organic matter. Use of BLADEX 4L on sands and loamy sands and/or soils containing less than 1 percent organic matter will likely result in injury to the cotton crop.

BLADEX Plus Zorial 80WP

Apply BLADEX 4L plus Zorial 80WP at the proper rate for the soil texture shown in Table 7. The soil must contain at least 1.0 percent organic matter. Seed placement should be 1/2 - 3/4 inch from the soil surface. Plant only cotton within six months after the last application of Zorial 80WP or injury may occur.

FA2195012/1

PREEMERGENCE BROADCAST APPLICATION RATES PER ACRE FOR BLADEX 4L + ZORIAL 80WP ON COTTON

(Soil Texture 1.0% Organic :	BLADEX 4L - qts.	► ZORIAL 80W 1bs.	
Coarse Soils	Sandy loam	0.5	. 8
Medium Soils	Silt and silt loam	0.6	1.3
	Loam, clay loam, sandy clay loam, and sandy clay	0.9	1.3
Fine Soils	Silty clay loam, silty clay and clay	1.2	1.6

DO NOT USE ON COARSE SOILS (SANDS AND LOAMY SANDS) CONTAINING MORE THAN 70% SAND.

.

FA2195012/1

3.5

ı.

L

. 23

DIRECTED POSTEMERGENCE - LAYBY USE

WEEDS CONTROLLED

Annual morningglory*
Bristly starbur
Cocklebur
Crotalaría
Jimsonweed
Lambsquarters
Nightshade (annual)

Palmer amaranth Pigweed (redroot and spiny) Prickly sida (teaweed) Sicklepod Spurge Tropic croton Wright groundcherry

*The degree of preemergence control from a layby treatment will be reduced if soil, moisture and temperature conditions cause deep germination of the seed.

BLADEX 4L and tank-mix combinations may be applied directed postemergence/ layby to cotton and either preemergence to weeds or postemergence to weeds in all cotton growing states. Apply before weeds are more than 2 inches tall.

Apply the directed postemergence treatment after the cotton has attained the minimum height of 6 inches. For layby treatment, apply BLADEX 4L after the cotton has attained a height of 12 inches or more.

The spray mixture should be directed to the soil around the base of the cotton plants. Care should be taken to prevent the spray from striking the cotton leaves as injury will occur. The use of leaf lifters or shields on application equipment is recommended to help avoid the spray contacting the cotton foliage.

BLADEX may be applied postemergence following a preemergence application of BLADEX. Apply no more than two postemergence and one preemergence application to the same crop in any one year. If BLADEX is not used preemergence, apply no more than three postemergence applications to the same crop in any one year. When applied as a layby treatment before weeds emerge, the effectiveness of Bladex 4L depends on rainfall or irrigation to move it into the soil. When irrigation water activation is used, every row must be watered and for skip row cotton all treated soil must be irrigated. Any rotational crop may be planted the fall or spring following any of the treatments in this section.

DO NOT GRAZE OR FEED FOLIAGE FROM TREATED AREAS TO LIVESTOCK.

BLADEX Applied Alone

Apply BLADEX 4L directed-postemergence at the rate shown in Table 5. Apply at layby at the rates for the soil texture indicated in Table 3 Add an agricultural surfactant such as X-77 or other surfactant suitable for use on growing cotton at the rate of 2 quarts per 100 gallons of spray mixture (or as directed by the manufacturer).

DIRECTED POSTEMERGENCE APPLICATION RATES PER ACRE FOR BLADEX 4L ON COTTON

	Banded 38" Row		
Broadcast	12" Band	19" Band	
0.6 - 1.0 qt.	0.2 - 0.3 qt.	0.3 - 0.5 qt.	

Use the maximum rate when dry or arid conditions exist.

.

TABLE 9

LAYBY APPLICATION RATES PER ACRE FOR BLADEX 4L ON COTTON

Height of Cotton		Soil Texture	Broadcast Rates
12 inches	Coarse	Sandy Loam	0.8 qt.
or more	Medium	Silt and silt loam, loam, clay loam, sandy clay loam and sandy clay	1.2 qt.
	Fine	Silty clay loam, silty clay and clay	1.6 qt.

FA2195012/1

ŧ

ь,

1

ł

BLADEX Plus MSMA

Apply a tank-mix combination of BLADEX 4L plus MSMA plus surfactant after the cotton is 6" tall but before it reaches the bloom stage. Apply no more than two applications of this mixture before the first bloom stage. Tank-mix Bladex plus MSMA at the rates indicated in Table 10. Add a surfactant, such as X-77, at the rate of 2 qts./100 gals of spray mixture (or as directed by the manufacturer).

TABLE 10

DIRECTED POSTEMERGENCE APPLICATION RATES PER ACRE FOR BLADEX 4L + MSMA ON COTTON

	Banded 38" Row		
Broadcast	12" Band	19" Band	
0.6 - 1.0 qt. BLADEX 4L	0.2 - 0.3 qt.	0.3 - 0.5 qt.	
+	+	+	
4 pints MSMA (4 lb/gal)	1.3 pints	2 pints	
or	or ·	or	
2.4 pints MSMA (6.6 lb/gal)	0.8 pint	1.2 pints	

FA2195012/1

4

<u> 3ladex Plus Dinitro (dinoseb)</u>

Apply a tank-mix combination of Bladex 80W plus Dinitro 3 plus surfactant after the cotton is 6" tall. Tank-mix Bladex 80W plus Dinitro 3 at the rates indicated in Table 11. Add a surfactant, such as X-77, at the rate of 2 qts/100 gals. of spray mixture. Do not apply when soil surface is wet or cotton plants are extremely succulent. Do not apply in California or Arizona.

TABLE 11

DIRECTED POSTEMERGENCE APPLICATION RATES PER ACRE FOR BLADEX 4L + DINITRO ON COTTON

	Banded 38" Row	
Broadcast	12" Band	19" Band
0.6 - 1.0 qt. BLADEX 4L	0.2 - 0.3 qt.	0.3 - 0.5 qt.
+	+	+
1 - 2 qts. DINITRO 3	0.3 - 0.65 qt.	0.5 - 1.0 qts.

Bladex Plus MSMA Plus Dinitro

Apply as directed in the "Bladex Plus MSMA" section of the label. Tank-mix Bladex plus MSMA at the rates shown in Table 10. Add Uinitro at the rate shown in Table 11. Add a surfactant, such as X-77, at the rate of 2 qts./100 gals. of spray mixture. Do not apply when soil surface is wet or cotton plants are extremely succulent. Do not apply in California or Arizona.

FA2195012/1

GRAIN SORGHUM (MILO)

Tank-mix combinations of BLADEX 4L plus propachlor (Ramrod™) or propazine (Milogard™) may be used for selective preemergence weed control in grain sorghum. Do not use on forage sorghum.

BLADEX 4L in tank-mix combination with propachlor or propazine should be applied only once per crop season. If replanting of grain sorghum is necessary, it may be planted in soil previously treated with these mixtures. Do not make a second application of Bladex or crop injury may occur. Apply these tank-mix combinations at planting or after planting, but before the crop and weeds have emerged. Heavy rain immediately following application tends to cause excessive concentrations of herbicide in seed furrow, resulting in possible crop injury. Do not apply to furrow-planted sorghum until furrows are leveled (plowed-in). Level deep planter marks or seed furrows before application. Application to sorghum growing under stress caused by minor element deficiency or to sorghum growing on highly calcareous soil may result in crop injury.

BLADEX 4L Plus Propachlor (Ramrod)

WEEDS CONTROLLED

Grasses

Barnyardgrass Crabgraes Fall panicem

Giant foxtail Green foxtail Yellow foxtail

Broadleaves

Annual morningglory Carpetweed Cocklebur* Common purslane Lambsquarters

Pigweed Ragweed Smartweed (Pennsylvania) Velvetleaf*

*Under conditions such as low temperatures, lack of soil surface moisture or other factors that may cause delay in germination of the seeds, the effectiveness of Bladex may be impaired against these weeds.

Apply BLADEX 4L plus propachlor at the proper rate for soil texture and organic matter shown in Table 12. Only apply this tank-mix to grain sorghum grown in states East of the Rocky Mountains. Any rotational crop may be planted the fall or spring following this treatment.

FA2195012/1

PREEMERGENCE BROADCAST APPLICATION RATES PER ACRE FOR BLADEX 4L + PROPACHLOR (RAMROD) 4L ON GRAIN SORGHUM

		PERCENT ORGANIC	MATTER IN SOI	L*
SOIL TEXTURE DESCRIPTION	QTS./ACRE BLADEX 4L	QTS./ACRE PROPACHLOR 4L	QTS./ACRE BLADEX 4L	QTS./ACRE PROPACHLOR 4L
Sand, Loamy Sand		DO NOT USE		
Sandy Loam	1.0	2.5	1.2	3.0
Loam, silt loam, silt	1.2	3.0	1.4	3.5
Sandy clay loam, clay loam, silty clay loam	1.4	3.5	1.6	4.0
Sandy clay, silty clay, clay	1.6	4.U	1.6	4.0
Peat or Muck		NOT RECOMMEN	IDED	

*For organic matter content between those listed, adjust the rate proportionately.

FA2195012/1

.

BLADEY Plus Propazine (Milogand)

WEEDS CONTROLLED

Grasses

Crabgrass Fall panicum Giant foxtail Green foxtall Yellow foxtall

Broadles.es

Annual morningglory Carpetweed Cocklebur Common purslane Lamsbsquarters Pigweed Puncturevine Ragweed Smartweed Velvetleaf

Apply BLADEX 4L plus Propazine at the proper rate for soil texture shown in Table 13.

Apply to grain sorghum grown only in the states of Texas, Oklanota, and Kansas. Rotational Crops: In the Texas Gulf Coast and Texas Blackhands, fields treated with this tank-mix may be planted to cotton, soybeans, or corn 12 months after treatment. In Oklahoma and West Texas, fields treated with this tank-mix may be planted to cotton or corn 12 months after application. In Kansas, corn may be planted in rotation 12 months after treatment. Other crops should not be planted for 18 months following treatment.

FA2195012/1

PREEMERGENCE BRUNDLAST APPLICATION RATES PER ACRE FOR BLADEX 4L + PROPREINE (MILLENRD) 4L ON GRAIN SORGHUM

SOIL TEXTURE	QTS./ACRE BLADEX 4L	QTS./ACRE PROPAZINE 4L*	
Sand, Loamy Sand, Sandy Loam	DO NOT USE		
Loam, silt loam, silt	0.8	0.75	
Sandy clay loam, clay loam, silty clay loam	1.0	1.0	
Sandy clay, silty clay, clay	1.2	1.25	
Peat or Muck	NOT RECOMMENDED		

*If Propazine 80W is used multiply rate shown by 1.25 to equal pounds of Propazine 80W.

.

Bladex& - Trademark of Shell Chemical Co. Banvel[™] - Trademark of Velsicol Chemical Co. Dual[™], Milogard[™] - Trademarks of CIBA-Geigy Corp. Eradicane[™], Sutan+[™] - Trademarks of Stauffer Chemical Co. Lasso[™], Ramrod[™] - Trademarks of Monsanto Co. Ortho X-77[™] - Trademark of Chevron Chemical Co. Treflan[™] - Trademark of Chevron Chemical Co. Zorial[™] - Trademark of Sandoz, Inc.

FA2195012/1

.

31

Layby Treatment

BLADEX 4L or BLADEX 4L plus Attaine may be used as a layby treatment (at least 60 days prior to harvest). Corn should be at least 10 inches tall and there must be enough height difference between the corn and the weeds to allow the spray to cover the weeds without contacting the upper corn leaves or whorl. This treatment will control weeds up to 1-1/2 inches tall and suppress or and in the burndown of taller weeds. This treatment may be used on peat or truck soils for burndown and suppression of existing weeds but will not provide residual control. The use of nitrogen solutions as a carrier and/or the addition of crop oil concentrate or surfactant will enhance the burndown effect of the treatment.

Apply as a directed spray under the corn leaves in water or nitrogen solutions. Use of high spray volumes is recommended as complete spray coverage of weeds is essential for best performance. Do not spray over the top of the corn as injury will occur. Use drop nozzles down the center of each row space with the spray pattern hitting no higher than 2-3" up on the corn stalk. The broadcast treatment should cover the entire soil surface in a uniform broadcast spray pattern. The spray should be directed to provide broadcast coverage between the rows following final furrowing or cultivatior. When applied behind a ditcher/ hiller or cultivator, avoid applicat on to moving soil. Do not apply to a field previously treated with BLADEK.

BLADEX 41 Applied Alone - Use BLADEX 4L at the proper rate for the soil texture and organic matter shown in Table 5. Add crop oil concentrate or surfactant to the mixture at its recommended rate. Any rotational crop may be planted in the fall or spring following treatment.

BLADEX 4L Plus Atrazine - USP an amount of BLADEX 4L plus Atrazine 4L equal to the rate shown in Table 5 for the proper soil texture and organic matter. To determine the amount of BLADEX 4L to use, multiply the rate in Table 5 by 0.7. To determine the amount of Atrazine 4L to use, multiply the rate in Table 5 by 0.3. (For the 2.0 qts/A, rate snown in Table 5, use 1.5 qts/A, of BLADEX 4L plus 0.5 qts/A, of Atrazine 4L.) Add crop oil concentrate or surfactant at its recommended rate. Rotational Crops: See Rotational Crops in the "Preemergence-BLADEX Plus Atrazine" section of this label.

COPY A

BEFORE WEITER

<u>(中学弓</u>

FOR GARMER METHOD STREET

くいけず

an areas to be plusted to the listent trut dative etable cross.

CAND

Me - 10 AB1 Y

 Garces at Apply this product to control weeds growing in areas that will later be planted to fue following crops:

Artichake (Jeromiem)

Sweetcorn

Root crops such as beets, carrots, onious, potatoes, ralishes and turnips

Leafy vegetables such as cabbage, lettice, mostard greens and spinach.

Seed and Pod veg-tables such as beans and peas, broccoli, cauliflower, kale and alara

Trees (Apple, Cherry, Avocado, Citrus, Gut, Fear) and Grape Vines: Apply to spreaded to control ondesirable plants growing around these trees and vines. Spray contact other to be with mature bark of the main tronk can injure the tree or vine. Allow 21 days to two application and picking not crops. Allow 14 days between application and harvestrap troit crops.

<u>General Weed Control</u>: Apply this product to control ordesirable plants growing in teach, around physical ornaments, buildings, tool sheas or other areas where control is desired.

Labascaping: Apply this product to control or distrible weeds or drosses grown product is where plantings of ornamentals, trees, shrobs, desert landscopes, rock gardens, flower beac or similar plantings will be made.

<u>Ornamentals</u>: Apply this product to control undesirable plants grown product to control undesirable plants grown product to the top with mature bark of desirable plants may cause lajory.

Lowist: Apply this product to control case a dile werds growing in lawist. Not the traj undesirable weeds in a law or ill case a dead spot onto softe init growth or control case the actist. Larger softs will report researing to provide complete grast cover of the protect reinfestation by ordesirable plants.

CHEVRON CHEA

CONFIDENTIAL

PROPES : Y CF

经复数形式

WECtell 03-50

UNTIL ACCENT & BY SPA



ł

ì.