

Copy #1

BLADEX® 80W

HERBICIDE

ACCEPTED
NOV - 8 1983
Under the Federal Insecticide, Fungicide, and Rodenticide Act
as amended for the purpose of
the Federal Food, Drug, and Cosmetic Act
EPA Reg. No. 201-277

ACTIVE INGREDIENTS	BY WEIGHT
2-[[4-chloro-6-(ethylamino)-s-triazin-2-yl]amino]-2-methylpropanitrile	80%
INERT INGREDIENTS	20%
TOTAL	100%

NOTE CONDITIONS OF SALE AND WARRANTY BEFORE OPENING THE CONTAINER. IF THEY ARE NOT ACCEPTABLE, RETURN UNOPENED PRODUCT.

KEEP OUT OF REACH OF CHILDREN
WARNING

STATEMENT OF PRACTICAL TREATMENT

If swallowed: call a physician or poison control center. Drink 1-2 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 in eyes: flush with plenty of water. Get medical attention if irritation persists.

If on skin: wash with plenty of soap and water.

If inhaled: remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

For other information see label.

BLADEX 80W 201-277

EPA Est. No. 201-101

Shell Chemical Company
A Division of Shell Oil Company
Agricultural Chemicals
Houston, TX 77001

**PRECAUTIONARY STATEMENTS
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) 473-9461.

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.

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

Container Disposal: Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of bags in a sanitary landfill or by incineration if allowed by state and local authorities.



Shell

Bladex 80W

Herbicide

Use of Bladex 80W in Corn,
Cotton, Grain Sorghum
and Fallow Cropland

EPA Reg. No. 251-279

EPA Est. No. 251-279

TABLE OF CONTENTS

Precautionary Statements	2
Storage and Disposal	2
Conditions of Sale and Warranty	3
General Information	3
Application Directions	4
Use in Corn	7
Tank Mixes	10-14
Minimum or No-Till Weed Control	15
Postemergence	15-16
Use in Cotton	17
Preemergence	17
Directed Post Emergence	
Layby Use	18-20
Use in Grain Sorghum (Milo)	20-22
Use in Fallow Cropland	23-26

SHELL CHEMICAL COMPANY
A Division of Shell Oil Company
AGRICULTURAL CHEMICALS
HOUSTON, TX 77001

Covered by U.S. Patents Nos. 3,505,325
and 3,620,710

ACL 2027D 9-83

Bladex® 80W Herbicide

BLADEX 80W is a Wettable Powder

ACTIVE INGREDIENTS	BY WEIGHT
2-[[4-chloro-6-(ethylamino)-s-triazin-2-yl]amino] 2-methylpropane-1-thiol	80%
INERT INGREDIENTS	20%
TOTAL	100%

KEEP OUT OF REACH OF CHILDREN

WARNING

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: call a physician or poison control center. Drink 1 or 2 glasses of water and induce vomiting by thrusting back of mouth each finger. Do not induce vomiting if person is lying by mouth to an unconscious person.

IF IN EYES: flush with plenty of water. Get medical attention if irritation persists.

IF ON SKIN: wash with plenty of soap and water.

IF INHALED: remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

PRECAUTIONARY STATEMENTS 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) 473-9461.

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.

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

Container Disposal: Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of bags in a sanitary landfill or by incineration in accordance with state and local authorities.

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.

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 80W Herbicide is a selective herbicide for the control of annual grasses and broadleaved weeds in field corn, 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.

Where surfactants or emulsifiable vegetable oils are added to BLADEX 80W for over the top of corn postemergence applications, use on field corn only.

As a preemergence herbicide, BLADEX 80W 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 to 1 inch 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 80W. 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 postemergence herbicide, BLADEX 80W is also active through foliage as well as through the roots.

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

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 80W to the tank, then fill with water to the desired level. For tank mixes, once the BLADEX 80W 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 emulsifiable 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 80W or BLADEX 60W tank mixes and fluid fertilizer, according to the Jar Test for Compatibility instructions below, before the herbicide and fertilizer are mixed in the spray tank. (BLADEX 80W can also be premixed as a slurry before adding to the tank.)

For use with a surfactant or vegetable oil, completely suspend the BLADEX 80W in water before adding the surfactant or vegetable oil.

Allow the pump to run several minutes before application to ensure proper suspension and mixing of BLADEX 80W or other various mixtures. If BLADEX 80W or tank-mix combinations of BLADEX 80W 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 80W 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.

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 herbicide can probably be used without a compatibility agent.
 2. 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 herbicide should not be used in the same spray tank.

Jar Test for BLADEX 80W Compatibility with Liquid Fertilizer

Gallons Liquid Fertilizer per acre	15	20	25	30	40
Teaspoons of BLADEX 80W* per Pint of fertilizer	2 1/2	1 3/4	1 1/2	1 1/4	1

* Based on 1 pound BLADEX 80W (0.8 pound active ingredients) per acre in fertilizer volumes indicated. Increase volume proportionately to correspond with intended field rate in terms of pounds BLADEX 80W per acre (e.g., for field rate of 4 pounds BLADEX 80W in 20 gallons fertilizer per acre, add 7 teaspoons BLADEX 80W to 1 pint fertilizer for compatibility testing purposes).
CALCULATION: At 4 pounds BLADEX 80W rate/20 gallons fertilizer, 4 x 1 3/4 teaspoons = 7 teaspoons BLADEX 80W/pint of fertilizer.

If 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.

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

201-279

Tank Mix Combination Compatibility Agents

BLADEX 80W Lasso (Liquid Fertilizer Grade)	Probably not needed in 28-0-0, 10-34-0. Unite, Com- plex, Ortho X-77 may help in others.
BLADEX 80W Sutan + 76 7E	Probably not needed in 28-0-0. Unite, SprayMate, Kem-Link, Complex may help in others.
BLADEX 80W Dual 8E	Unite, Spray-Mate, Ivory Liquid may help.

CORN

Weeds Controlled by BLADDEX 80W Alone and in Combination with other Herbicides on Corn

Grasses		
Annual bluegrass	Crabgrass	Junglece
Annual fescues	Fall panicum	Stinkgrass (Indian
Annual (Italian) ryegrass	Grass foxtail	lovegrass)
Barnyardgrass	Goosegrass	Witchgrass
Bullgrass	Green foxtail	Yellow foxtail
Broadleaves		
Annual groundcherry	Florida pusley	Prostrate knotweed
Annual morning glory	(Florida purslane)	Prostrate spurge
Annual sedge	Hedge mustard	Ragweed
Black mustard	Jimsonweed	Russian Thistle
Buffalobur	Kochia	Shepherdspurse
Buttercup (annual)	Ladysthumb	Smallflower galinsoga
Carpenterweed	Lambsquarters	Smartweed (Pennsylvania)
Cocklebur	Mayweed	Sunflower (wild annual,
Common chickweed	Nightshade (annual)	common)
Common groundsel	Pigweed	Tanweed cuphea (Gumweed)
Common milkweed	Pineappleweed	Velvetleaf
Common purslane	Plantain	Wild buckwheat
Corn spurry	Purple	Wild mustard
Curly dock (seedling)	Prickly sida (leafweed)	Wild radish
Fiddleneck		Wild turnip

* Under conditions such as low temperature, low soil fertility, or other factors that may cause delay in germination of the seeds, the effectiveness of BLADDEX may be impaired against these weeds.

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

PREEMERGENCE-PREPLANT

Apply BLADEX treatments just before, at or after planting but before the 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"-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.

TABLE 1
PREEMERGENCE BROADCAST APPLICATION RATES PER ACRE
FOR BLADEX 80W APPLIED ALONE ON CORN

Soil Texture Description	Pounds of BLADEX 80W					
	Percent Organic Matter in Soil*					
	Less than 1%	1%	2%	3%	4%	5% & Over
Sand	NO NOT USE	1.5	2.0	2.75	3.5	4.0
Loamy Sand		1.5	2.25	2.5	3.0	4.5
Sandy Loam	1.5	2.25	2.5	3.0	3.75	4.5
Loam	2.0	2.5	3.0	3.75	4.5	5.0
Silt loam	2.0	2.5	3.0	3.75	4.5	5.0
Clay loam	2.5	3.0	3.75	4.5	5.0	5.5
Silty clay loam	2.5	3.0	3.75	4.5	5.0	5.5
Sandy clay	3.5	3.75	4.5	5.0	5.5	6.0
Silty clay	3.5	3.75	4.5	5.0	5.5	6.0
Clay	3.5	3.75	4.5	5.0	5.5	6.0
Peat or Muck	NOT RECOMMENDED					

*For organic matter content of a soil, see soil test report or laboratory report.

230-274

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 broad-leaveds 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 is to be planted the following year, or a crop of 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.

TABLE 2
BROADCAST APPLICATION RATES PER ACRE FOR TANK-MIX
COMBINATIONS OF BLADEX 80W PLUS ATRAZINE 80W ON CORN

Soil Texture Description	Pounds of BLADEX 80W + Pounds of Atrazine 80W**					
	Percent Organic Matter in Soil*					
	Less than 1%	1%	2%	3%	4%	5% & Over
Sand Loamy Sand	DON'T USE	10 + 0.5	15 + 0.5	175 + 0.75	20 + 1.0	275 + 1.25
Sandy loam	10 + 0.5	15 + 0.5	175 + 0.75	20 + 1.0	275 + 1.25	35 + 1.5
Loam Silt loam Silt	15 + 0.5	175 + 0.75	25 + 1.0	275 + 1.25	35 + 1.5	40 + 1.5
Sandy clay loam Clay loam Silty clay loam	175 + 0.75	25 + 1.0	275 + 1.25	35 + 1.5	40 + 1.5	425 + 1.75
Sandy clay Silty clay Clay	25 + 1.0	275 + 1.25	35 + 1.5	40 + 1.5	425 + 1.75	45 + 2.0
Peat or Muck	NOT RECOMMENDED					

* For organic matter content between the selected rates, the rate is proportionately

** If Atrazine 80W is used, the rates shown for Atrazine 80W plus Atrazine 80W

BLADEX plus Lasso 4 EC

Use BLADEX 80W 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 Eradicane™ 6.7E

Use BLADEX 80W 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 certain weeds. (Use 2.4 quarts of Sutan + or Eradicane on clay soils containing 5 percent or more organic matter and clay loam soils containing 4 percent or more organic matter. Do not use on sandy and heavy sands of less than 1 percent organic matter in the light sandy soils of eastern coastal states. Do not use on corn seedlings.)

Apply before planting. Incorporate the mixture immediately with a disk or power driven cultiva-tion implement set for 2-3 inch depth or a tandem disk set for a depth of about 4 inches while operating at 4-6 mph. For thorough mixing, disk in two directions, cross disk, and follow with a harrow, drag, or other overlying disk. Prior to the second disk, readjust the disk to prevent cutting deeper than 4 inches. BLADEX disk may be applied to emerging weeds, or as a pre-plant, pre-emergence treatment. Sutan + or Eradicane is desired. Any rotational crop may be planted the fall or spring following these treatments.

Existing stands of quackgrass, purple and yellow nutsedge must be treated before any other crops are planted.

Apply the weeds shown in Table 3. Sutan + or Eradicane is desired.

Grasses:

Sandbur
Shattercane (Wild Cane)*
Texas Panicum
Quackgrass (Eradicane only)
Wild Proso Millet*
(Eradicane only)

Perennial Weeds:

Yellow Nutsedge (nutgrass)
Purple Nutsedge (nutgrass)

* Suppress only. Refer to Sutan + or Eradicane label for appropriate supplemental 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.

Bladex Plus Dual 8E

Use BLADEX 80W at the proper rate for soil texture and organic matter shown in Table 3. Use Dual as follows:

Soil Texture	Broadcast Rate Per Acre For Dual
Coarse Light sandy sand, sandy loam	1.25-1.5 pints
Medium Loam, silt loam, silty	1.5-2.0 pints
Fine Sandy clay loam, silty clay, clay, heavy clay, sandy clay, silty clay, silt	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 crop injury.

TABLE 3
PREEMERGENCE BROADCAST APPLICATION RATES PER ACRE FOR BLADEX 80W USED IN
TANK-MIX COMBINATIONS WITH LASSO, SUTAN +, ERADICANE, OR DUAL ON CORN

Soil Texture Description	Pounds of BLADEX 80W					
	Percent Organic Matter In Soil*					
	Less than 1%	1%	2%	3%	4%	5% & Over
Sand, Loamy Sand	0.75**	1.0	1.5	1.75	2.0	2.5
Sandy Loam	1.0	1.5	1.75	2.0	2.5	2.75
Loam, Silty Loam, Silt	1.5	1.75	2.0	2.5	2.75	3.25
Sandy Clay loam Clay loam Silt, Clay loam	1.75	2.5	2.5	2.75	3.25	3.5
Sandy Clay Silt, Clay, Clay	2.25	2.5	3.0	3.25	3.5	3.75
Peaty Muck	NOT RECOMMENDED					

* For organic matter content to be used for the purpose of this table.
 ** Data taken from the Agronomy Handbook

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

Use BLADEX 80W 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 80W PLUS ATRAZINE 80W
USED IN TANK-MIX COMBINATIONS WITH LASSO, SUTAN +, ERADICANE, OR DUAL ON CORN**

Soil Texture Description	Pounds of BLADEX 80W + Pounds of Atrazine 80W***					
	Percent Organic Matter in Soil ^b					
	Less than 1%	1%	2%	3%	4%	5% & Over
Sand	0.5 + 0.25**	0.75 + 0.5	1.0 + 0.5	1.25 + 0.5	1.25 + 0.75	1.75 + 0.75
Loamy Sand						
Sandy Loam	0.75 + 0.25	1.0 + 0.5	1.25 + 0.5	1.25 + 0.75	1.75 + 0.75	2.0 + 0.75
Loam	1.0 + 0.5	1.25 + 0.5	1.5 + 0.5	1.75 + 0.75	2.0 + 0.75	2.25 + 1.0
Silt loam						
Silt						
Sandy clay loam	1.25 + 0.5	1.5 + 0.75	1.75 + 0.75	2.0 + 0.75	2.25 + 1.0	2.5 + 1.0
Clay loam						
Sandy clay	1.5 + 0.75	1.75 + 0.75	2.0 + 1.0	2.25 + 1.0	2.5 + 1.0	2.5 + 1.25
Clay						
Peaty Muck						

^a For organic matter in soil, use the following percentages: 1% = 1.0%, 2% = 2.0%, 3% = 3.0%, 4% = 4.0%, 5% = 5.0%.

^b For organic matter in soil, use the following percentages: 1% = 1.0%, 2% = 2.0%, 3% = 3.0%, 4% = 4.0%, 5% = 5.0%.

^c For organic matter in soil, use the following percentages: 1% = 1.0%, 2% = 2.0%, 3% = 3.0%, 4% = 4.0%, 5% = 5.0%.

Minimum or No-till Weed Control

BLADEX 80W applied alone or in combination with atrazine and/or Lasso or Dual according to the following directions will control existing small weeds and suppress many emerged perennial weeds when corn is planted into stalk ground, corn, sorghum, stubble ground, soybean, small grain, and any minimum tillage situation. This treatment then provides residual control of annual weeds as in conventional tillage.

Apply BLADEX 80W 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 1.5 pt. A of 2,4-D Low Volatile or Extent 10-75-15 pt. A 2,4-D LV 4 lb. Extent. Add the 2,4-D LV to the spray tank last. Use a minimum of 25 gals. A of carrier for each spray coverage of the weeds. See the label for best performance. Follow the directions and directions for best results are the preferred treatment. This treatment as they help and in the burndown of existing weeds. Add 0.5 lb. of 2,4-D LV surfactant at 1.25 gal. per 100 gals. of carrier and spray the weeds at the recommended rate. Apply before weeds exceed 3 in. height. For control of existing alfalfa add 1.5 to 2 pt. A of 2,4-D LV to the spray mixture. Apply before the alfalfa exceeds 10 in. height.

For fields with existing tall grasses such as orchard grass, timothy, or clover, or when very dry conditions exist, use water or existing weeds exceed 13 in. height and spray the field with 1.5 to 2 pt. A of 2,4-D LV. A spray of water with BLADEX 80W will be effective in the burndown of the 2,4-D LV may be used for the field and the field may be used for the field.

POSTEMERGENCE

BLADEX Applied Alone

Use BLADEX 80W 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 1 1/2 in. height. Do not apply over the top of corn if the fifth leaf is visible. Apply in water only. Do not spray emerged corn plants in a liquid fertilizer carrier.

Under dry and conditions of low humidity and the absence of dew formation at night, add a surfactant such as X-77, or an emulsifiable vegetable (EV) oil surfactant for use on growing corn at its recommended rate. Do not use this treatment on corn. Addition of a surfactant or EV oil is not recommended under most rainy conditions and when dew forms at night as injury may occur.

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 wet and cold 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.

TABLE 5
POSTEMERGENCE BROADCAST APPLICATION RATES
PER ACRE FOR BLADEX 80W ON CORN

Soil Texture	Pounds of BLADEX 80W			
	Percent Organic Matter In Soil*			
	Less than 1%	1%	2%	Over 2%
Sand, Loamy Sand	DO NOT USE	1.5	2.0	2.5
Sandy Loam	1.5	2.0	2.5	2.5
Loam, Silt Loam, Silty	2.0	2.5	2.5	2.5
All other textures	2.5	2.5	2.5	2.5

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

BLADEX COMBINATIONS

BLADEX Plus Atrazine

Apply as directed in "Postemergence BLADEX Applied Atrazine" section of this label. Use an amount of BLADEX 80W plus Atrazine 80W equal to the rate shown in Table 5 for the proper soil texture and organic matter. To determine the amount of BLADEX 80W to use multiply the rate in Table 5 by 0.7. To determine the amount of Atrazine 80W to use multiply the rate shown in Table 5 by 0.3. For the 2.5 lb A rate shown in Table 5 use 1.75 lbs A of BLADEX 80W plus 0.75 lbs A of Atrazine 80W.

Read and Observe Restricted Crops section in the "Postemergence BLADEX Plus Atrazine" section of this label.

BLADEX Plus Banvel

Apply as directed under "Postemergence - BLADEX Applied Atrazine" section of this label. Add 1.2 - 2.3 pt A of Banvel to the mixture. Do not use with a surfactant or emulsifiable product.

COTTON **PREEMERGENCE USE**

Weeds Controlled

Annual morning glory
Cockspur
Prickly sida (feaweed)
Spurge

BLADEX 80W Herbicide is a selective preemergence herbicide for early season weed control in cotton. Supplemental practices (such as directed postemergence BLADEX 80W application) may be necessary to control late season weeds. BLADEX 80W can be used in a tank-mix combination with Zorial® 80WP. Apply only in the states of AL, AK, LA, MS.

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 overspraying the field with BLADEX 80W. Application rates above those recommended for the soil texture can result in yield loss or stunting of the crop and may result in stand reduction.

When cotton is stressed by BLADEX 80W, adverse growing conditions such as excessive rains, standing water or cool weather may result in stand reduction.

DO NOT GRAZE LIVESTOCK FORAGE FROM TREATED AREAS TO LIVE STOCK.

BLADEX Plus Zorial 80WP

Apply BLADEX 80W plus Zorial 80WP at the proper rate for the soil texture shown in Table 6. 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.

TABLE 6 PREEMERGENCE BROADCAST APPLICATION RATES PER ACRE FOR BLADEX 80W + ZORIAL 80WP ON COTTON			
Soil Texture (Soil Texture must contain at least 1.0% Organic Matter)		BLADEX 80W + ZORIAL 80W lbs.	
Coarse Soils	Sandy loam	65	6
	Silt and silt loam	75	13
Medium Soils	Loam, clay loam, sandy clay loam and sandy clay	11	13
	Fine Soils	15	16

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

DIRECTED POSTEMERGENCE — LAYBY USE

Weeds Controlled

Annual morning glory*	Palmer amaranth
Bristly starbur	Pigweed (red, white, and spiny)
Cocklebur	Pitchy sida (leaved)
Crotalaria	Sicklepod
Jimsonweed	Spurge
Lambsquarters	Tropic cotton
Nightshade (annual)	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 80W and tankmix combinations may be applied directed postemergence layby to cotton and other species tolerant 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 80W after the cotton has attained the 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. (In California apply no more than two post-emergence applications.) When applied as a layby treatment before weeds emerge, the effectiveness of BLADEX 80W depends on rainfall or irrigation to move it into the soil. When irrigation water application 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 80W directed postemergence at the rate shown in Table 7. Apply at layby at the rates for the soil texture indicated in Table 8. 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).

**TABLE 7
DIRECTED POSTEMERGENCE
APPLICATION RATES PER ACRE
FOR BLADEX 80W ON COTTON**

Broadcast	Banded 38" Row	
	12" Band	19" Band
0.75 - 1.25 lb	0.25 - 0.4 lb	0.4 - 0.6 lb

Use the maximum rate when dry or hard conditions exist.

**TABLE 8
LAYBY APPLICATION RATES PER ACRE
FOR BLADEX 80W ON COTTON**

Height of Cotton	Broadcast Soil Texture	Rates
12 inches or more	Coarse Sandy loam	1.0 lb
	Sandy loam	1.5 lb
Less than 12 inches	Medium loam, clay loam, sandy clay loam, and sandy clay	1.5 lb
	Fine sandy clay, silty clay, clay, and silt	2.0 lb

BLADEX Plus MSMA

Apply a tank-mix combination of BLADEX 80W 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 9. Add a surfactant, such as X-77, at the rate of 2 qts. per 100 gals of spray mixture (or as directed by the manufacturer).

**TABLE 9
DIRECTED POSTEMERGENCE
APPLICATION RATES PER ACRE
BLADEX 80W + MSMA ON COTTON**

Broadcast	Banded 38" Row	
	12" Band	19" Band
0.75 - 1.25 lb BLADEX 80W	0.25 - 0.4 lb	0.4 - 0.6 lb
4 pnts MSMA (4 lb gal)	1.3 pnts	2 pnts
or	or	or
2.4 pnts MSMA (6 lb gal)	0.8 pnt	1.2 pnts