BLADEX Combinations

BLADEX Plus Atrazine

Apply as directed in "Postemergence-BLADEX Applied Alone" 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.)

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. Do not use with a surfactant or emulsible vegetable oil.

COTTON

PREEMERGENCE USE

Weeds Controlled

Annual morningglory
Cocklebur
Prickly sida (teaweed)
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 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 80W. 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 80W, 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.

BLADEX Applied Alone or as an Overlay

Apply BLADEX 80W at planting, or after planting but before the crop has emerged. Use BLADEX 80W 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.

TABLE 6

PREEMERGENCE BROADCAST APPLICATION
RATES PER ACRE FOR BLADEX 80W ON COTTON

SOIL TEXTURE (Must Contain at least 1% Organic Matter)	Soil Texture	Lbs. BLADEX 80W Organic Matter	
		1 - 1.5%	Over 1.5%
Coarse Soils	Sandy loam	1.0	1.0
Medium Soils	Silt and silt loam	1.0 - 1.25	1.25
	Loam, clay loam, sandy clay loam, and sandy clay	1.5 - 2.0	2.0
Fine Soils	Silty clay loam, silty clay and clay	2.0 - 2.5	2.5

Do not use BLADEX 80W on coarse soils (sands and loamy sands) containing more than 70 percent sand. Do not use BLADEX 80W on soils containing less than 1 percent organic matter. Use of BLADEX 80W 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 80W 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.

TABLE 7

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 lbs.	+ ZORIAL 80W lbs.
Coarse Soils	Sandy loam	.65	.8
Medium Soils	Silt and silt loam	.75	1.3
	Loam, clay loam, sandy clay loam, and sandy clay	1.1	1.3
Fine Soils	Silty clay loam, silty clay and clay	1.5	1.6

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

FA2195012

DIRECTED POSTEMERGENCE - LAYBY USE

WEEDS CONTROLLED

Annual morningglory*	Palmer amaranth
Bristly starbur	Pigweed (redroot and spiny)
Cocklebur	Prickly sida (teaweed)
Crotalaria	Sicklepod
Jimsonweed	Spurge
Lambsquarters	Tropic croton
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 tank-mix combinations may be applied directed post-emergence/layby to cotton and either preemergence to weeds or post-emergence 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 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 80W 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 80W directed-postemergence at the rate shown in Table 8. Apply at layby at the rates for the soil texture indicated in Table 9. 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 8

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

	Banded 38" Row	
Broadcast	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 arid conditions exist.		

TABLE 9

LAYBY APPLICATION RATES PER ACRE
FOR BLADEX 80W ON COTTON

Height of Cotton	Soil Texture		Broadcast Rates
12 inches or more	Coarse	Sandy Loam	1.0 lb.
	Medium	Silt and silt loam, loam, clay loam, sandy clay loam and sandy clay	1.5 lb.
	Fine	Silty clay loam, silty clay and clay	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 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 80W + MSMA ON COTTON

	Banded 38" Row	
Broadcast	12" Band	19" Band
0.75 - 1.25 lb. BLADEX 80W	0.25 - 0.4 lb.	0.4 - 0.6 lb.
+	+	+
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

Bladex Plus Dinitro (dinoseb)

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 80W + DINITRO ON COTTON

	Banded 38" Row	
Broadcast	12" Band	19" Band
0.75 - 1.25 lb. BLADEX 80W	0.25 - 0.4 lb.	0.4 - 0.6 lb.
+	+	+
1 - 2 qts. DINITRO 3	0.3 - 0.65 qt.	0.5 - 1.0 qts.

Bladex Plus MSMA Plus Dinitro Pg 25

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 Dinitro 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.

GRAIN SORGHUM (MILO)

Tank-mix combinations of BLADEX 80W plus propachlor (Ramrod™) or propazine (Milogard™) may be used for selective preemergence weed control in grain sorghum. Do not use on forage sorghum.

BLADEX 80W 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 80W Plus Propachlor (Ramrod)

WEEDS CONTROLLED

Grasses

Barnyardgrass
Crabgrass
Fall panicum
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 80W 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.

TABLE 12

PREEMERGENCE BROADCAST APPLICATION RATES PER ACRE FOR
BLADEX 80W + PROPACHLOR (RAMROD) 4L ON GRAIN SORGHUM

	PERCENT ORGANIC MATTER IN SOIL*			
	2%		3%	
SOIL TEXTURE DESCRIPTION	LBS./ACRE BLADEX 80W	QTS./ACRE PROPACHLOR 4L	LBS./ACRE BLADEX 80W	QTS./ACRE PROPACHLOR 4L
Sand, Loamy Sand	DO NOT USE			
Sandy Loam	1.2	2.5	1.5	3.0
Loam, silt loam, silt	1.5	3.0	1.7	3.5
Sandy clay loam, clay loam, silty clay loam	1.7	3.5	2.0	4.0
Sandy clay, silty clay, clay	2.0	4.0	2.0	4.0
Peat or Muck	NOT RECOMMENDED			

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

FA2195012

BLADEX Plus Propazine (Milogard)

WEEDS CONTROLLED

Grasses

Crabgrass
Fall panicum
Giant foxtail
Green foxtail
Yellow foxtail

Broadleaves

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

Apply BLADEX 80W plus Propazine at the proper rate for soil texture shown in Table 13.

Apply to grain sorghum grown only in the states of Texas, Oklahoma, and Kansas. Rotational Crops: In the Texas Gulf Coast and Texas Blacklands, 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.

TABLE 13

PREEMERGENCE BROADCAST APPLICATION RATES PER ACRE FOR BLADEX 80W + PROPAZINE (MILOGARD) 4L ON GRAIN SORGHUM

SOIL TEXTURE	LBS./ACRE BLADEX 80W	QTS./ACRE PROPAZINE 4L*
Sand, Loamy Sand, Sandy Loam	DO NOT USE	
Loam, silt loam, silt	1.0	0.75
Sandy clay loam, clay loam, silty clay loam	1.25	1.0
Sandy clay, silty clay, clay	1.5	1.25
Peat or Muck	NOT RECOMMENDED	

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

FA2195012

FALLOW CROPLAND

Weeds Controlled by BLADEX 80W Alone and in Tank-Mix Combinations

Grasses

Annual (Italian) ryegrass
Barnyardgrass*
Crabgrass
Cheatgrass
Downy brome
Green foxtail
Yellow foxtail
Indian lovegrass
Stinkgrass
Volunteer wheat
Witchgrass
Wild Oat*

Broadleaves

Cocklebur*
Common chickweed
Dog fennel
False flax
Henbit
Horseweed (marestail)
Kochia
Lambsquarters
Pennycress
Pigweed*
Prickly lettuce
Prostrate knotweed
Prostrate spurge
Purslane
Russian thistle
Shepherdspurse
Smartweed (Pennsylvania)
Sunflower* (wild)
Purple mustard
Tansy mustard
Tumble mustard
Wild radish
Wild buckwheat*

Additional weeds controlled are listed in the Corn section of this label.

*Under soil moisture and temperature conditions favoring deep germination or other factors that may cause delayed germination, these species may not be completely controlled.

BLADEX 80W may be used alone or in tank-mix combination with atrazine for the control of certain annual weeds during a fallow program.

BLADEX 80W or BLADEX 80W plus atrazine should be used in tank-mix combination with Paraquat CL and/or 2,4-D as described below if growing vegetation is present. Should weeds become established before adequate rainfall for herbicide activation occurs, sweep tillage may be employed to destroy them.

Application Directions

Apply fallow crop land herbicide treatments uniformly to the soil surface. Adjust boom height on ground rigs to obtain the correct spray pattern at the top of the stubble rather than the ground. At sprayer speeds over 8 mph and when crop residues are heavy use floodtype nozzles and at least

25 gal./A. of carrier.

BLADEX 80W Applied Alone

Select the appropriate rate of BLADEX 80W from Table 14. Add X-77 surfactant at the rate of 1 qt./100 gals of diluted spray. Winter wheat may be planted four months or more after treatment. Spring wheat or durum wheat may be planted nine months after treatment. Grain sorghum or field corn may be planted in the spring following a late fall application.

TABLE 14

BROADCAST APPLICATION RATES PER ACRE FOR
BLADEX 80W ON FALLOW CROPLAND*

LBS. PER ACRE

Soil Texture	Post Harvest Treatment for Fall Weed Control	Late Fall Treatment for Spring Weed Control	Spring Treatment for Spring Weed Control
Clay loams, loams, and sandy soils	3.0	4.0	3.0
Clays, loamy clays, silty clays and sandy clays	3.5	4.0	3.0

*For soils containing more than 2% organic matter, use an additional 0.5 lb/acre of Bladex 80W.

For soils containing more than 3% organic matter, use an additional 1.0 lb/acre of Bladex 80W.

FA2195012

BLADEX 80W Plus Atrazine

BLADEX 80W may be used in tank-mix combination with atrazine where a maximum period of weed control is desired in a fallow crop land program. Treatments must be applied before November 15 of the year before planting winter wheat or at least 11 months before planting spring wheat or durum wheat. Select the appropriate rates of BLADEX 80W plus atrazine for a particular location from Table 15. Add X-77 surfactant at 1 qt/100 gals. of diluted spray.

Do not use this treatment on sands or on Rosebud or Canyon series soils, or on calcareous or caliche subsoil outcroppings because of possible atrazine carryover damage to the succeeding crop.

Do not graze or feed foliage from treated areas to livestock within six months after application.

TABLE 15

BROADCAST APPLICATION RATES PER ACRE FOR TANK-MIX COMBINATIONS OF BLADEX 80W PLUS ATRAZINE ON FALLOW CROPLAND*

LOCATION/TREATMENT			LBS/ACRE BLADEX 80W	+	QTS/ACRE ATRAZINE 4L**
FALL APPLICATION FOR WINTER WHEAT Kansas, Southern Nebraska, Oklahoma, Colorado East Slope between HWY I-76 and State HWY 96			2.0	+	0.8
FALL APPLICATION FOR WINTER OR SPRING WHEAT Nebraska Panhandle, Wyoming, Utah, Colorado West Slope & East Slope North of HWY I-76 & South of HWY 96, Idaho, Montana, North Dakota, South Dakota			2.0	+	0.6
SPRING APPLICATION FOR SPRING WHEAT Idaho, Montana, North Dakota, South Dakota, Northern Utah, Northern Wyoming			2.5	+	0.4
FALL APPLICATION FOR WINTER WHEAT Columbia Basin Areas of Washington & Oregon	Average Annual Rainfall	over 15"	2.5	+	0.4
		10-15"	2.5	+	0.27
		Less than 10"	2.5	+	0.2

*Use an additional 0.5 lb/A. of Bladex 80W for soils with 2.0 to 3.0 percent organic matter.
Use an additional 1.0 lb/A. of Bladex 80W for soils containing more than 3.0 percent organic matter.

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

FA2195012

BLADEX Combinations With Paraquat

On fallow crop land having an existing or established weed population, Paraquat CL may be tank mixed at 1-2 pts/A. with either BLADEX 80W or BLADEX 80W/atrazine tank-mix combination as previously described in this section. Apply the recommended rates in at least 25 gallons of spray mixture per acre by ground rig or 5-10 gals/A. for aerial application. Use higher volumes and the high rates of paraquat when weed growth is heavy or when dry weather conditions prevail. Add X-77 surfactant at 1 qt/100 gals of diluted spray.

BLADEX Combinations With 2,4-D Low Volatile Ester

2,4-D LV Ester may be added to any treatment in this section to help control broadleaf weeds growing at the time of application. Use 1-1/3 to 2 pts/A. of 2,4-D LV 6 lb. Ester (2-3 pts/A. of 2,4-D LV 4 lb. Ester). Use the high rate when weeds are over 4" tall or when directed on the 2,4-D label for the control of hard-to-kill weed species, such as perennials. When 2,4-D LV is used, it should be added to the spray tank last.

Use of Supplemental Tillage

In fields where established weeds are too large to be effectively controlled with paraquat or 2,4-D, sweep tillage should be employed. Till before applying the herbicide treatment. This type of tillage will preserve a maximum amount of existing stubble on the surface for soil protection. Similar tillage may also be used if weeds become established prior to receiving adequate rainfall for activation of the herbicide treatment. At some point prior to seeding wheat, the herbicide will degrade and no longer be effective. Limited tillage should be employed at this time. This tillage should be kept shallow to preserve as much moisture as possible for the crops.

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 Elanco Products Co.
Zorial™ - Trademark of Sandoz, Inc.

FA2195012

Layby Treatment

BLADEX 80W or BLADEX 80W plus Atrazine 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 aid in the burndown of taller weeds. This treatment may be used on peat or muck 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 cultivation. When applied behind a ditcher/hiller or cultivator, avoid application to moving soil. Do not apply to a field previously treated with BLADEX.

BLADEX 80W Applied Alone - Use BLADEX 80W 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 80W Plus Atrazine - 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 in Table 5 by 0.3. (For the 2.5 lbs/A. rate shown in Table 5, use 1.75 lbs/A. of BLADEX 80W plus 0.75 lbs/A. of Atrazine 80W.) 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.

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING

Causes eye and skin irritation. Do not get in eyes, on skin or on clothing. Wear goggles or face shield, rubber gloves and protective clothing (long sleeve shirt, long pants and boots) when handling. Harmful if swallowed. Avoid contamination of food and feedstuffs.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Do not apply in marine and/or estuarine oil fields. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not discharge treated effluent into lakes, streams, ponds or public waters unless in accordance with a NPDES permit. For guidance contact your Regional Office of the EPA.

STORAGE AND DISPOSAL

1. PROHIBITIONS
Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

2. PESTICIDE DISPOSAL
Pesticide, spray mixture, or rinsate that cannot be used or chemically processed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.

3. CONTAINER DISPOSAL
(a) Reseal container and offer for recondi...ning, or
(b) Triple rinse (or equivalent) and
Offer for recycling, recondi...ning, or disposal in approved landfill or bury in a safe place.

4. GENERAL
Consult federal, state or local disposal authorities for approved alternative procedures.

TABLE 1 — Dosage for Raw Juice Use

Short Tons of Beets Sliced or Cane Ground per Day	RATE OF FEED OF NALCO 7405			
	10 ppm		20 ppm	
	ml/min	oz/min	ml/min	oz/min
1,000	5.5	0.186	11	0.372
2,000	11.0	0.372	22	0.744
3,000	16.5	0.558	33	1.115
4,000	22.0	0.744	44	1.487
5,000	27.5	0.930	55	1.859

TABLE 2 — Dosage for Flume and Washing Systems

Millions of Gallons in System	Volume of NALCO 7405 on Continuous Basis (ml/min)	
	3 ppm	5 ppm
0.1	1.4	3.5
0.5	6.9	17.3
1.0	13.8	34.5
5.0	69.0	172.5

NALCO®
7405

SUGAR PROCESSING MICROBIOCIDE

ACTIVE INGREDIENTS	30%
Sodium Dimethyldithiocarbamate	15%
Nabam (Disodium Ethylene Bisdithiocarbamate)	15%
INERT INGREDIENTS	70%

EPA Reg. No. 1706-164
EPA Est. No. 1706-IL-1

KEEP OUT OF REACH OF CHILDREN

WARNING

STATEMENT OF PRACTICAL TREATMENT

In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. For eyes, call a physician. Remove and wash contaminated clothing before reuse.

If swallowed, drink promptly a large quantity of milk, egg whites, gelatin solution or if these are not available, drink large quantities of water. Call a physician immediately.

See Side Panel For Additional Precautionary Statements

This product complies with Title 21 Code of Federal Regulations Section 173.320 (Chemicals used for the Control of Microorganisms in Cane-Sugar and Beet Sugar Mills) of the Food Additive Regulations and may be used under conditions specified in the regulations.

DIRECTIONS FOR USE
GENERAL CLASSIFICATION

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

NALCO 7405 is a highly effective fungicide and bactericide for use in controlling the growth of bacteria and fungi found in beet sugar and cane sugar mills.

BEET SUGAR MILLS

Raw Juice

NALCO 7405 should be fed directly into the raw juice during sugar extraction of beets to keep equipment free of bacterial slime deposits. It is to be used at the rate of 10–20 ppm of raw beets sliced and fed continuously into the pulp press tank with a metering pump. The maximum rate to be fed is 20 ppm. Refer to Table 1 for the proper dosage in milliliters and ounces of NALCO 7405 to be used per minute.

Flume Water Transporting and Washing Systems

NALCO 7405 is a highly effective microbiocide for arresting the degradation of sugar beets by microorganisms during the beet transport and washing process.

NALCO 7405 is applied initially at the rate of 5 ppm based on total volume of water in the system) on a continuous or once per shift basis. Thereafter 2 ppm is added to the system per 8 hour shift. The concentration may be increased to 5 ppm per shift if a decrease in pH or increase in odor is noted.

To calculate the amount of NALCO 7405 to add on a once per shift basis determine the total volume of water in the transport and washing system. Multiply this volume in millions of gallons by the factor 4.3 to give the amount in gallons of NALCO 7405 for the initial treatment. For the subsequent treatment of 2 ppm, multiply the volume of the transport and washing system in millions of gallons by the factor 1.7. On a continuous addition basis, add these calculated volumes over the 8 hour shift. Table 2 lists the amounts of NALCO 7405 to use for various volumes of system water in millions of gallons.

CANE SUGAR MILLS

NALCO 7405 is a liquid which should be fed directly into the cane juice so that the treated juice circulates to all parts of the mill tandem. The point or points of addition will depend on mill design. Frequently the dosage will be split between the crusher juice and the juice from the last mill. The best addition point is to juice which is circulated back to the crusher to first mill. Do not add this product to the maceration water.

NALCO 7405 should be fed continuously at the rate of 10–20 parts of product per million parts of cane ground per day. 10 ppm of product is the standard dosage. This may be raised up to a maximum of 20 ppm, if necessary. Conditions warranting some increase would be grinding of cane damaged through freezing, poor weather or delays between cutting and grinding. See feeding directions which follow.

Proper feed of NALCO 7405 sheet stock may be through the use of a chemical feed pump such as the adjustable proportioning type, the variable speed positive displacement type, or the reciprocating type. The required dosage will depend on the average daily rate of cane ground. Refer to Table 1 for the proper dosage in milliliters and ounces of NALCO 7405 to be used per minute. Do not exceed feed rate of 4 gallons (39.2 pounds) of product per 1000 short tons of cane ground per twenty four hours.

The use of NALCO 7405 does not replace good house keeping. This should include regular cleaning at least once per shift. Regular hosing of mills, bagasse conveyors and screens with hot water and steam is essential for maintaining efficient control of microbiological slime and sucrose losses.

NALCO CHEMICAL COMPANY
CHICAGO, ILLINOIS 60638

ACCEPTED

APR - 5 1982

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 201-279

BLADEX® 80W
HERBICIDE

	BY WEIGHT
ACTIVE INGREDIENTS	
2-[[4-chloro-6-(ethylamino)-s-triazine-2-yl] amino]-2-methylpropionitrile.....	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 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 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.

See additional precautions inside.

EPA Reg. No. 201-279 EPA Est. No. 201-IL-1

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

FA2195012

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 rinsate 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.

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, sweet corn, popcorn, cotton, or 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 1/2-3/4" 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 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 post-emergence 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.

FA2195012

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 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 80W or BLADEX 80W 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. (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 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 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.

FA2195012

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.

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 herbicides 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* 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. Increased 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.

TANK MIX COMBINATION	COMPATIBILITY AGENTS
BLADEX 80W/Lasso (Liquid Fertilizer Grade)	Probably not needed in 28-0-0, 10-34-0. Unite, Compex, Ortho X-77 may help in others.
BLADEX 80W/Sutan+™ 6.7E	Probably not needed in 28-0-0. Unite, Spray-Mate, Kem-Link, Compex may help in others.
BLADEX 80W/Dual 8E	Unite, Spray-Mate, Ivory Liquid may help.

CORN

WEEDS CONTROLLED BY BLADEX 80W ALONE AND IN COMBINATION WITH OTHER HERBICIDES ON CORN

Grasses

Annual bluegrass	Fall panicum	Stinkgrass (Indian lovegrass)
Annual fescues	Giant foxtail	Wild oat
Annual (Italian) ryegrass	Goosegrass	Witchgrass
Barnyardgrass[1]	Green foxtail	Yellow foxtail
Bullgrass	Johnsongrass (seedling)	
Crabgrass	Junglerice	

Broadleaves

Annual groundcherry	Florida pusley (Florida purslane)	Postrate spurge
Annual morningglory	Hedge mustard	Ragweed
Annual sedge	Jimsonweed[1]	Russian Thistle
Black mustard	Kochia	Shepherdspurse
Buffalobur	Ladysthumb	Smallflower galinsoga
Buttercup (annual)	Lambsquarters	Smartweed (Pennsylvania)
Carpetweed	Mayweed	Sunflower[2] (wild, annual, common)
Cocklebur[2]	Nightshade (annual)	Tarweed cuphea (Gumweed)
Common chickweed	Pigweed[1]	Velvetleaf[1]
Common groundsel	Pineappleweed	Wild buckwheat
Common mallow	Plantain	Wild mustard
Common purslane	Poorjoe	Wild radish
Corn spurry	Prickly sida (teaweed)	Wild turnip
Curly dock (seedling)	Prostrate knotweed	
Fiddleneck		

[1]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.

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

FA2195012

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 1½-2" 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 per Acre — Percent Organic Matter in Soil*					
	Less than 1%	1%	2%	3%	4%	5% & Over
Sand, Loamy Sand	DO NOT USE	1.5	2.0	2.75	3.5	4.0
Sandy Loam	1.5	2.25	2.5	3.0	3.75	4.5
Loam, Silt Loam, Silt	2.0	2.5	3.0	3.75	4.5	5.0
Sandy Clay Loam, Clay Loam, Silty Clay Loam	2.5	3.0	3.75	4.5	5.0	5.5
Sandy Clay, Silty Clay, Clay	3.5	3.75	4.5	5.0	5.5	6.0
Peat or Muck	NOT RECOMMENDED					

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

FA2195012

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 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

PREEMERGENCE 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	DO NOT USE	1.0+0.5	1.5+0.5	1.75+0.75	2.0+1.0	2.75+1.25
Sandy Loam	1.0+0.5	1.5+0.5	1.75+0.75	2.0+1.0	2.75+1.25	3.5+1.5
Loam, Silt Loam, Silt	1.5+0.5	1.75+0.75	2.5+1.0	2.75+1.25	3.5+1.5	4.0+1.5
Sandy Clay Loam, Clay Loam, Silty Clay Loam	1.75+0.75	2.5+1.0	2.75+1.25	3.5+1.5	4.0+1.5	4.25+1.75
Sandy Clay, Silty Clay, Clay	2.5+1.0	2.75+1.25	3.5+1.5	4.0+1.5	4.25+1.75	4.5+2.0
Peat or Muck	NOT RECOMMENDED					

*For organic matter content between those listed, adjust the rate proportionately.
**If Atrazine 4L is used, multiply rates shown by 0.8 to equal quarts of Atrazine 4l

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 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 immediately 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 80W 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 Sutan+ or Eradicane combinations:

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

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
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.

TABLE 3

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

	Pounds of BLADEX 80W Percent Organic Matter in Soil*					
Soil Texture Description	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, Silt Loam, Silt	1.5	1.75	2.0	2.5	2.75	3.25
Sandy Clay Loam, Clay Loam, Silty Clay Loam	1.75	2.25	2.5	2.75	3.25	3.5
Sandy Clay, Silty Clay, Clay	2.25	2.5	3.0	3.25	3.5	3.75
Peat or Muck	NOT RECOMMENDED					

*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 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.

FA2195012

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

	Pounds of BLADEX 80W + Pounds Atrazine 80W*** Percent of Organic Matter in Soil*					
Soil Texture Description	Less Than 1%	1%	2%	3%	4%	5% & Over
Sand, Loamy 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
Sandy Loam	.75+0.25	1.0+0.5	1.25+0.5	1.25+0.75	1.75+0.75	2.0+0.75
Loam, Silt Loam, Silt	1.0+0.5	1.25+0.5	1.5+0.5	1.75+0.75	2.0+0.75	2.25+1.0
Sandy Clay Loam, Clay Loam, Silty 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
Sandy Clay, Silty Clay, 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
Peat or Muck	NOT RECOMMENDED					

*For organic matter content between those listed, adjust the rate proportionately.
**Do not use in the Atlantic Coast Plain.
***If Atrazine 4L is used, multiply rates shown by 0.8 to equal quarts of Atrazine.

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 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 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 ½-1 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™ 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™ 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 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 about 1-1/2" in height. Do not appy 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, arid conditions of low humidity and the absence of dew formation at night, add a surfactant such as X-77, or an emulsible vegetable (EV) oil suitable for use on growing corn at its recommended rate. Do not use petroleum-based crop oils. Addition of a surfactant or EV oil is not recommended under moist, 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 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.

TABLE 5

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

	Pounds of BLADEX 80W Percent Organic Matter in Soil*			
Soil Texture	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, Silt	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.

FA2195012