2.5 gal 100 14



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Under the Federal Intectifide, Fungici ie, and Rodenticide Act, as amended, for the pesticide tegistered under EPA Reg. No. 544-448

# BULLETE

HERBICIDE BY Minsonto

elective herbicide for preemergence weed control in corn (all types)

### RESTRICTED USE PESTICIDE

due to oncogenicity. For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

The use of this product may be itazardous to your health. This product contains alachlor, which has been determined to cause tumors in laboratory animals.

Carefully follow detailed instructions in label booklet.

#### SHAKE WELL BEFORE USING

Read the entire label before using this product.
Use only according to label instructions.
Read "LIMIS OF MARRANTY AND LIABILITY" before buying or
using. If terms are not acceptable, return at once unopened
REFORMULATION OR REPACKAGING IS PROHIBITED.

Keep out of reach of children.

CAUTION!

NET 2.5 GAL.



#### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

#### **CAUTION!**

HAY BE BAF GUL IF INRALED.

Avoid breathing vapor or apray mist.

Wear goggles or face shield rubber gloves, long trousers

iong sleeved shirt or jacket of lightly woven material along with boots high enough to cover ankles when transferring and mixing, and when adjusting repairing or cleaning equipment. Wear rubber boots when pouring from open containers or when reentry is made into fields following application of this product through center pivot imigation systems and the field is still wet. Clothing which comes in contact with this product must be washed before reuse. Clothing or other materials which become dienched with the concentrated pesticide must be disposed of in a sanitary landfill, by incineration or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Wash thoroughly with soap and water after handling

FIRST AID: IF INVALED, remove individual to fresh air. Seek undical attention if breathing difficulty develops.

In case of an emergency involving this product Call Collect day or night (314) 694-4000

#### Environmental Hazards

This chemical has been identified in timited ground water sampling and there is the possibility that it can leach through the soil to ground water especially where soils are coarse and ground water is near the surface following application, and during rainfall events that cause runoff this chemical may reach surface water bodies including streams rivers and resevoirs.

Care must be taken when using this product to prevent back siphoning into wells, spills or improper disposal of excess pesticides, spray mixtures or rinsates. Check varies or antisiphoning devices must be used on air mining and or intigation equipment. Disposal of excess petiticide spray multires, or rinsate should be according to taber use instructions or according to the state pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office.

This product is toxic to fish. Do not apply directly to water or wetlands. Do not contaminate water when disposing of equipment washwaters.

#### Physical or Chemical Hazards

in case of

SPILL or LEAK soak up remove and keep away from humans and domestic animals

#### **DIRECTIONS FOR USE**

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

#### Storage and Disposal

Do not contaminate water, landstuffs, feed or seed by storage or disposal

STORAGE

STORE ABOVE — 4°F TO KEEP PRODUCT FROM FREEZING II frozen thaw before use

DISPOSAL

Wastes resulting from the use of this product that cannot be used o. chemically reprocessed should be disposed of in a randfill approved for pesticide disposal or buried on site in a safe place away from water supplies. All disposal should be in accordance with applicable Federal state or local procedures.

Emptied container retains vapor and product residue Observe all labeled safeguards until container is rinsed and destroyed.

Do not reuse container. Triple rinse container. Then puncture and dispose of in a sanitary landfill, or by incineration or if allowed by state and local authorities, by burning. If burned, stay out of smoke

(See label booklet for Complete Directions for Use )

#### LIMIT OF WARRANTY AND LIABILITY

This Company warrants that this product conforms to the chemical description on the tabel and is reasonably lift for the purpose set forth in the Complete Directions for tipe ("Directions") when used in accordance with those Directions under the conditions described therein MO OTHER EXPRESS WARRANTY OR EMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE This warranty is also subject to the conditions and limitations stated hercin.

Buyer and all users shall promptly notify this Company of any claims whether beard at contract, negligence, strict liability, other tent or otherwise.

Buyer and all users are responsible for all less or demage from use or handling which results from conditions beyond the coveral of this Company, including but not limited to, incompatibility with products other than those set furth in the Directions, application to or contact with desirable registation, unusual weather, weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth

in the Directions, application in any manner not explicitly set forth in the Directions, moscure conditions outside the moisture range speculand in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, IN-JURIES OR DAMAGE RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CON-TRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE ELEC-TION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTETY OR, IF NOT ACQUIRED BY FUR-CHASE, REPLACEMENT OF SUCH QUANTI-TY. IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL CONSEQUENTIAL OR SPECIAL DAMAGES.

Buyer and all users are deemed to have accepted the terms of this LIMIT OF WAR-RANTY AND LIABILITY which may not be seried by any verbal or written agreement.

Monsanto

MONSANTO COMPANY AGRICULTURAL PRODUCTS ST. LOUIS, MISSOURI 63167 U.S.A.

 Registered trademark of Monsanto Company
 MONSANTO COMPANY 1988

In case of an emergency involving this product Call Collect day or night (314) 694-4000

EPA Reg. No. 524-EPA Est. 524-IA-1 843 25-000.02 M **SHAKE WELL** 

**BEFORE USING** 

# BULLET

Herbicide by Monsonto

Selective herbicide for preemergengs weed control in corn (all types)

#### RESTRICTED USE PESTICIDE

due to encagonicity. For retail rate to and use only by Cartified Applicators or persons under the direct asparelates and only for these uses coursed by the Cartified Applicator's continuation. The use of this product may be hazardous to your health. This product contains plackler, which has been determined to cause tumors in laboratory unlessle.

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\*Contains 300 promit/fets or 2.5 pounds gallon of abortion and 180 promit/fet or 1.5 pounds gallon of observe and related compounds.

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#### PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION!

MAY BE HARMFUL IF INHALED. Avoid breathing vapor or spray mist.

Wear goggles or face shield, rubber gloves, long trousers, long-sleeved shirt or jacket of thightly woven material along with boots high enough to cover ankles when transferring and mixing, and when adjusting, repairing or cleaning equipment. Wear rubber boots when pouring from open containers or when reentry is made into fields following application of this product through center pivot irrigation systems and the field is still wet. Clothing which comes in contact with this product must be washed before reuse. Clothing or other materials which become drenched with the concentrated pesticide must be disposed of in a sanitary landfill, by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Wash thoroughly with soap and water after handling.

FIRST AID: IF INHALED, remove individual to fresh air. Seek medical attention if breathing difficulty develops. \*

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

#### **Environmental Hazards**

This chemical has been identified in limited ground-water sampling and there is the possibility that it can leach through the soi to ground water especially where soils are coarse and ground water is near the surface. Following application, and during rainfall events that cause runoff, this chemical may reach surface water bodies including streams, rivers and reservoirs.

Care must be taken when using this product to prevent back siphoning into wells, spills or improper disposal of excess pesticide, spray mixtures or rinsate.

Check valves or antisiphoning devices must be used on all mixing and/or irrigation equipment. Disposal of excess pesticide, spray mixtures or rinsate should be according to label use instructions or according to the state pesticide or environmental control agency or the hazardous waste representative at the nearest EPA regional office.

This product is to lic to fish. Do not apply directly to water or wetland. Do not contaminate water when disposing of equipment washwaters.

Physical or Chemical Hazards

In case of:

SPILL or LEAK, soak up, remove and keep away from humans and domestic animals.

DIRECTIONS FOR USE

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

Storage and Disposal

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

STORAGE:

STORE ABOVE -40 F TO KEEP PRODUCT FROM FREEZING. If frozen, thaw before use.

#### DISPOSAL:

Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or buried on site in a safe place away from water supplies. All disposal should be in accordance with applicable Federa, state or local procedures.

Emptied container retains product residue. Observe all labeled safeguards until container is destroyed.

Do not reuse container. Triple rinse container. Then puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authroities, by burning. If burned, stay out of smoke.



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This Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose set forth in the Complete Directions for Use ("Directions") when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS WARRANTY OR IMPLIED WARRANTY OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY IS MADE. This warranty is also subject to the conditions and limitations stated herein.

Buyer and all users shall promotly notify this Company of any claims whether based in contract, negligence strict liability, other tort or otherwise.

Buyer and all users are responsible for all loss or damage from use or handling which results from conditions beyond the control of this Company, including but not limited to, incompatibility with products other than those set forth in the Directions, application to or contact with desirable vegetation, unusual weather weather conditions which are outside the range considered normal at the application site and for the time period when the product is applied, as well as weather conditions which are outside the application ranges set forth in the Directions, application in any manner not explicitly set forth in the Directions, moisture conditions outside the moisture range specified in the Directions, or the presence of products other than those set forth in the Directions in or on the soil, crop or treated vegetation.

THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE LIMIT OF THE LIABILITY OF THIS COMPANY OR ANY OTHER SELLER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGE RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT (INCLUDING CLAIMS BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY, OTHER TORT OR OTHERWISE) SHALL BE THE PURCHASE PRICE PAID BY THE USER OR BUYER FOR THE QUANTITY OF THIS PRODUCT INVOLVED, OR, AT THE FLECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY. IN NO EVENT SHALL THIS COMPANY OR ANY OTHER SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES.

Buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement.

In case of an emergency involving this product Call Collect, day or night, (314) 694-4000

MONSANTO COMPANY AGRICULTURAL PRODUCTS ST LOUIS MISSOURI 63167 U.S.A.



Registered trademark of Monsanto Company

# JULLET

Monsonto HERBICIDE BY

Selective herbicide for preemergence weed control in corn (all types)

#### RESTRICTED USE PESTICIDE

due to ancogenicity. For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

The use of this graduct may be hexardens to your health. The product contains slackler which has been determined to core lumers in laboratory animals. Carefully follow defailed instructions in attached booklet

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#### Environmental Hazards

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This product is toxic to fish. Do not apply " directly to water or wetlands. So not contam-inate water to disposing of equipment wash-maters. when

Physical or Chemical Hazards

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#### DIRECTIONS FOR USE

it is a violation of federal law to use this product in any manner inconstition with its labeling.

#### Storage and Disposal

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CHECKSTREET COMPANY (SEE) (PA Reg. No. 524)

### BULLET FLOWABLE HERBICIDE BY MONSANTO

Selective herbicide for preemergence weed control in corn (all types),

RESTRICTED USE PESTICIDE due to oncogenicity. For retail sale to and use only by Cartified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification.

The use of this product may be hazardous to your health. This product contains alachlor, which has been determined to cause tumors in laboratory animals.

In case of an emergency involving this product or for user safety information on this product, call collect, day or night (314) 694-4000.

#### SHAKE WELL BEFORE USING

Complete Directions For Use

Bullet@ is a registered trademark of Monsanto Company.

©MONSANTO COMPANY 1988

EPA Reg. No. 524-

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Read the entire label before using this product.

Use only according to label instructions.

Read "LIMIT OF WARRANTY AND LIABILITY" before buying or using. If terms are not acceptable, return at once unopened.

REFORMULATION IS PROHIBITED.

#### LIMIT OF WARRANTY AND LIABILITY

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Buyer and all users are deemed to have accepted the terms of this LIMIT OF WARRANTY AND LIABILITY which may not be varied by any verbal or written agreement.

#### PRECAUTIONARY STATEMENTS

Hazards to

Humans and Domestic Animals

Keep out of reach of children.

CAUTION!

MAY BE HARMFUL IF INHALED. Avoid breathing vapor or spray mist.

Wear goggles or face shield, rubber gloves, long trousers, long-sleeved shirt or jacket of tightly woven material along with boots high enough to cover ankles when transferring and mixing, and when adjusting, repairing or cleaning equipment. Wear rubber boots when pouring from open containers or when reentry is made into fields following application of this product through center pivot irrigation systems and the field is still wet. Clothing which comes in contact with this product must be washed before reuse. Clothing or other materials which become drenched with the concentrated pesticide must be disposed of in a sanitary landfill, by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Wash thoroughly with soap and water after handling.

FIRST AID: IF INHALED, remove individual to fresh air. Seek medical attention if breathing difficulty develops.

In case of an emergency involving this product, Call Collect, day or night, (314) 694-4000.

#### Environmental Hazards

This chemical has been identified in limited ground water sampling and there is the possibility that it can leach through the soil to ground water, especially where soils are coarse and ground water is near the surface. Following application, and during rainfall events that cause runoff, this chemical may reach surface water bodies including streams, rivers and reservoirs.

Care must be taken when using this product to prevent back siphoning into wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.

Check valves or antisiphoning devices must be used on all mixing and/or irrigation equipment. Disposal of excess pesticide, spray mixtures or rinsate should be according to label use instructions or according to the state pesticide or environmental control agency or the hazardous waste representative at the nearest EPA regional office.

This product is toxic to fish. Do not apply directly to water or wetlands. Do not contaminate water when disposing of equipment washwaters.

#### Physical or Chemical Hazards

#### In case of:

SPILL or LEAK, soak up, remove and keep away from humans and domestic animals.

#### ACTIVE INGREDIENTS:\*

Alachlor, [2-chloro-2'6'-diethyl-N-(methoxymethyl) acetanilide] 25.2%
Atrazine, [2-chloro-4-(ethylamino)-6-(isopropylamino)-s-triazine] 14.3%
Related atrazine compounds 0.8%
INERT INGREDIENTS: 59.7%
100.0%

\*Contains 300 grams/liter or 2.5 pounds/gallon of alachlor and 180 grams/liter or 1.5 pounds/gallon of atrazine and related compounds.

#### DIRECTIONS FOR USE

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

#### Storage and Disposal

Do not contaminate water, foodstuffs, feed or seed by storage or disposal.

#### STORAGE:

STORE ABOVE - 4°F TO KEEP PRODUCT FROM FREEZING. If frozen, thaw before use.

#### DISPOSAL:

Wastes resulting from the use of this product that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticide disposal or buried on site in a safe place away from water supplies. All disposal should be in accordance with applicable Federal, state or local procedures.

Emptied container retains product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed.

(See individual container label for disposal information).

#### GENERAL INFORMATION

This product is recommended for the control of many annual grasses and broadleaf weeds. Except for minimum and conservation tillage systems, the seed bed should be fine, firm and free of clods and trash.

Performance is improved when moisture occurs within one week after application. The amount required depends primarily upon the amount of soil moisture in the weed germination zone at the time of application, soil type and organic matter content, but 1/3 to 3/4 inch is generally sufficient for performance of this product. High intensity or excessive rainfall, or excessive irrigation, after application may reduce control.

Read and carefully observe the cautionary statements and all other information appearing on this label and on the labels of Gramoxone  ${}^{\text{IM}}$ Super, Bladex ${}^{\text{IM}}$  and Princep  ${}^{\text{IM}}$ herbicides before using in combination with this product.

Use of this product in any manner not consistent with this label may result in injury to persons, animals or crops, or other unintended consequences. Keep container closed to prevent spills and contamination.

Do not apply when conditions favor drift.

Flush sprayer with clean water after use.

Do not graze treated area or feed treated forage to livestock for 21 days following application.

NOTE: Use this product for weed control in corn only.

PLANT ONLY CORN, PEANUTS, SORGHUM (MILO) OR SOYBEARS THE TEAK FULLWING THE USE OF THIS MIXTURE. IF SOYBEANS ARE TO BE PLANTED, THERE IS A POSSIBILITY OF CROP INJURY DUE TO CARRYOVER OF ATRAZINE. Do not plant soybeans in areas where furrow irrigation is practiced.

MBladex is a trademark of E.I. du Pont de Nemours and Company.

"Gramoxone is a trademark of ICI Americas Inc.

<sup>m</sup>Princep is a trademark of Ciba Geigy Corporation.

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#### SOIL TEXTURE

Applicators should evaluate soil and weed conditions carefully to assure that they choose the lowest effective label rate.

The recommended use rates of this product and the other herbicides labeled for use in tank mixtures with this product generally vary with soil texture. Unless soil texture is specifically named, rate tables throughout this label refer to only three soil textural groups: coarse, medium and fine. The following is a complete listing of soil textures included in each of these three soil textural groups:

SOIL TEXTURAL GROUP	SOIL TEXTURE
COARSE:	sand, loamy sand, sandy loam
MEDIUM:	loam, silt loam, silt, sandy clay loam
FINE:	silty clay loam, clay loam, sandy clay, silty clay, clay

Refer to the above table to determine the corresponding soil textural group for the soil to be treated.

#### MIXING, SPRAYING AND HANDLING INSTRUCTIONS

#### NOTE

The use of a mechanical transfer system is required to be used by all mixer/loaders and/or applicators who treat 300 acres or more annually with pesticides containing alachlor as an active ingedient.

Direct contact or exposure to this product or spray mixtures of this product should be minimized. The following instructions for transfer, mixing, cleaning or repairing equipment should be followed in order to minimize this exposure. Review the protective clothing requirements as listed in the Precautionary Statements section of this label (front panel) and do not use this product until you have the necessary protective clothing.

#### 2.5 Gallon Containers

Open pouring from these containers can result in exposure from splashing or spilling. Special care in lifting and pouring are strongly recommended.

#### Bulk Containers

Open pouring from these containers can result in exposure from splashing or spilling and is not recommended. This product should be transferred from these containers to the mix or spray tank using pumps or transfer probes. The probe or pump should not be removed from the container or disconnected until the container is emptied and rinsed. Use the pump or probe system to rinse the empty container and transfer the rinsate directly to the mix or spray tank.

### Equipment Cleaning & Repair

Cleaning and repair of transfer systems and application equipment is a source of exposure to this product. Care should be taken to minimize exposure during cleaning and repair of transfer systems and application equipment. Whenever possible, these systems or equipment should be rinsed before thing cleaned or repaired. When repairs must be made during transfer or application, the equipment should be shutdown, and special care taken to avoid contact with the pesticide.

Always predetermine the compatibility of this product with water carrier or sprayable fluid fertilizer or other labeled herbicides by mixing small proportional quantities in advance.

Mix this product with the appropriate carrier as follows:

- 1. Place a 20 to 35 mesh screen or wetting basket over the filling port.
- Through the screen, fill the sprayer tank one-half full with the carrier.
- 3. If a compatibility agent is necessary to improve mixing or to prevent the formation of undesirable and unsprayable gels or precipitates, while agitating add the compatibility agent to the carrier already in the tank.

Use only compatibility agents cleared by the Federal Food and Drug Administration for this use. Follow the directions for use on the compatibility agent label. Check for adequate agitation.

- 4. Premix one part of this product with one part wate. Add the diluted mixture SLOWLY through the screen into the tank. When necessary, this product may be diluted with a fertilizer carrier instead of water, after compatibility has been confirmed.
- 5. With minimum tillage systems, add the required amounts of Gramoxone Super near the end of the filling process.
- 6. Complete filling the sprayer tank with carrier. Remove the hose from the tank immediately to avoid siphoning back into the carrier source. Maintain good agitation until the contents of the tank are sprayed. NOTE: If spray mixture is allowed to settle at any time, thorough agitation is required to resuspend the mixture before spraying is resumed.

Keep by-pass line on or near the bottom of the tank to minimize foaming. Screen size in nozzle or line strainers should be no finer than 50 mesh. Carefully select the correct nozzle to avoid spraying a fine mist. For best results, use flat fan or flood jet nozzles. Check for even distribution of spray droplets. To reduce loss of the chemical due to drift of a fine mist, apply at pressures from 20 to 40 psi.

# STANDARD SPRAYABLE FLUID FERTILIZER COMPATIBILITY TEST

Herbicides may not always mix evenly throughout a sprayable fluid fertilizer or the components may separate too quickly to make their combined use of practical value. This may be due to certain characteristics of the different fluid fertilizers. A simple test using small quantities of the components is suggested to provide compatibility potential.

The test follows:

- A. Materials Required For A Compatibility Test
- 1. Two one-quart jars with lid or stopper (marked "with" and "without").
- 2. TEAspoons (for a more exacting test, a five to ten milliliter (ml.) pipette or graduated cylinder is desirable.
- 3. A minimum of one quart of the sprayable fluid fertilizer to be tested.
- 4. The herbicide(s) to be mixed.
- 5. A compatibility agent (the purpose of the adjuvant is to help keep the fertilizer and herbicide(s) in suspension, if this assistance is needed).

#### B. Procedure

1. Add one pint of the sprayable fluid fertilizer that will be used or other herbicide carrier to each jar marked "with" and "without".

# Add One Pint Liquid Fertilizer To Two Quart Jars

WITH

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2. To the jar marked "with", add 1/4 TEAspoon or 1.2 milliliters of a suitable compatibility agent; shake gently for five to ten seconds to mix. (1/4 TEAspoon is the equivalent of two pints per 100 gallons of liquid fertilizer.)

To Jar Marked "With" Add Compatibility Agent And Shake to Mix

WITH

WITHOUT

3. To each jar add the appropriate amount of herbicide(s). If more than one is used, add them separately with the wettable powders added first, flowables second and liquid last. Shake gently five to ten seconds after each addition.

Add Herbicide(s) To Both Jars
And Shake to Mix

WITH

WITHOUT

# Amount to Be Added Per Pint of Sprayable Fluid Fertilizer (Assuming Volume is 25 gal/a)

	Herbicide	Rate/a	Level TEAspoons		Milliliters
This	Product	3 qts	= : :	٥r	14.2
		3.5 qts			16.6
		a -	= 3.8 /		19
		•	= 4.3	OF	21.4
		5 qts	= 4.8	or	23.8

This compatibility test is designed for 25 gallons of spray solution per acre with the maximum labeled rate of herbicide. For changes in spray volume or herbicide rate, make appropriate changes in the ingredients of the test. Regardless of spray volume, the amount of compatibility agent should be equal to two or three pints (two pints = 1/4 TEAspoon or 1.2 milliliters, three pints = 3/8 TEAspoon or 1.8 milliliters per pint of sprayable fluid fertilizer) per 100 gallons of liquid fertilizer.

- C. Observations and Decisions
- 1. If the herbicide(s) and the sprayable fluid fertilizer are compatible.
- 2. If a compatibility agent is necessary.

Five minutes after the final addition and mixing, observe both jars for the formation of large flakes, sludge, gels or other precipitates. Observe if the herbicide(s) cannot be physically mixed with the liquid fertilizer but remains as small only particles in the solution.

If incompatibility in any form described above occurs in the jar "with" the compatibility agent added, the liquid fertilizer and herbicide(s) should not be used together in the same spray tan!.

If incompatibility as described above occurs in the jar "without" the adjuvant but not in the jar "with" adjuvant, the use of a compatibility agent is recommended.

Both jars should be allowed to stand and be observed periodically for one-half hour. If the separate layers of liquid fertilizer and additives can be resuspended by shaking, commercial application is possible. Wettable powders will either settle to the bottom of the tank or jar, or float to the top, depending upon the density of the fertilizers.

If the herbicide(s) is compatible with fluid fertilizer in the foregoing test without using a compatibility agent, fluid fertilizer may be used for the premixing. If it is not compatible, the herbicide(s) should be premixed with water before adding to the spray tank.

## APPLICATION WITH DRY BULK FERTILIZER

The herbicide-fertilizer impregnation process must be conducted only at commercial fertilizer or chemical dealerships adequately equipped for this procedure.

Dry bulk fertilizer may be impregnated with this product for use on corn. This product must be applied with 200 to 450 pounds of dry bulk fertilizer per acre and shallowly incorporated within 7 days prior to planting. The correct amount of herbicide must be applied per acre in the blend as recommended in this label for the crop, weed and soil type treated. Refer to the table for broadcast rate per acre in the "Surface Application or Preplant Incorporated" section of this label to determine the recommended broadcast rate per acre for the herbicide treatment to be applied.

The following table provides a reference to determine the amount of LIQUID herbicide to be mixed per ton of dry bulk fertilizer for a range of herbicide recommendations for fertilizer rates per acre:

			RECOMMEND QUID HERB	•		
ertilizer	Acres		SOID UEKD	ICIDE/AC	NE	
Rate	Covered	3	3.5	4	4.5	
3.2.33	40.4101	-	Quarts of	-	· · · •	
(lb/acre)	(per ton)	_	Dry Bulk			
		_				
200	10	30	35	40	45	
250	8	24	28	32	36	
300	6.7	20	23.3	26.6	30	
350	5.7	17.1	20	22.8	25.7	
400	5	15	17.5	20	22.5	
450	4.5	13.3	15.6	17.8	20	

To determine the amount of herbicide needed for rates not included in the preceding table, use the following formula:

Recommended Herbicide Rate	Pounds or
(lb or qt)/acre x 2000	Quarts of herbi-
	cide per ton of
	= dry bulk
Pounds Fertilizer/Acre	fertilizer

Mix and blend the dry fertilizer and herbicide mixture in a closed rotary-drum-type mixer allowing sufficient time to ensure uniform coverage. Use at least one ton of dry fertilizer per mixing operation. Inject the herbicide into the drum over a minimum of a 2-minute period and allow at least 2 additional minutes mixing time to ensure uniformity. The nozzle used to spray the herbicide treatment must be placed inside the mixer to provide uniform spray coverage of the tumbling fertilizer.

If the dry fertilizer used has inadequate adsorptive capacity, use a highly adsorptive powder such as Microcel<sup>m</sup> E to provide a free-flowing mixture. The adsorptive powder must be added separately and uniformly to the prepared herbicide-fertilizer mixture. Generally 2 percent by weight of Microcel E is required. The following is a partial list of dry fertilizers which may be impregnated with this product.

Ammonium sulfate	21-0-0	
Ammonium phosphate-sulfate	16-20-0	
Diammonium phosphate	18-46-0	
Potassium chloride	0-0-60	
Potassium sulfate	0-0-52	
*Urea	46-0-0	

<sup>\*</sup>Some ureas may be phytotoxic when applied on corn. Use only ureas known to be safe to corn.

NOTE: DO NOT impregnate tank mixtures of this product with other herbicides or fertilizers containing ammonium nitrate, potassium nitrate or sodium nitrate.

"Microcel is a trademark of Manville Products Corporation.

#### **APPLICATION**

Spread the herbicide-fertilizer mixture with a calibrated applicator. Be certain the material is applied uniformly to the soil surface. When using spin spreaders, a 100 percent overlap is recommended to ensure even distribution. Spin applicators should be calibrated to apply one-half the desired rate per acre and application overlapped by doubling back to cover one-half of the previous swath. Dribble spreaders must be calibrated with the herbicide-fertilizer mixture since the flow pattern for the herbicide-coated fertilizer will generally be slower than straight dry fertilizer.

#### WEEDS CONTROLLED

Applicators should evaluate soil and weed conditions carefully to assure that they choose the lowest effective label rate.

When applied as directed this product will CONTROL the following weeds:

#### ANNUAL GRASSES

Barnyardgrass Echinochloa crus-galli Crabgrass Digitaria ischaemum Digitaria sanguinalis Foxtail, giant Setaria faberi Foxtail, green Setaria viridis Foxtail, yellow Setaria lutescens Goosegrass Eleusine indica Panicum, browntop Panicum fasciculatum Panicum, fall Panicum dichotomiflorum Sandbur, Grassbur\* Cenchrus incertus Signalgrass, broadleaf Brachiaria spp. Sprangletop, red Leptochloa filiformis Witchgrass Panicum capillare

\*Apply 4 to 5 quarts of this product per acre. Preemergence surface applications should be applied to a freshly prepared seedbed. Rotary hoe or initiate overhead irrigation (0.33 to 0.55 inch) within 24 hours of application for best control.

#### ANNUAL BROADLEAVES

Beggarweed, Florida
Desmodium tortuosum
Carpetweed
Mollugo verticillata
Cocklebur, common\*
Xanthium strumarium
Ground cherry, annual
Physalis spp.
Jimsonweed
Datura stramonium
Kochia
Kochia scoparia

ANNUAL BROADLEAVES (Cont'd) Lambsquarters Chenopodium album Marestail, Horseweed Conyza canadensis Morningglory, annual\* Ipomoea purpurea Mustard Brassica spp. Nightshade, black Solanum nigrum Nightshade, bairy Solanum sarrachoides Pigweed, Carelessweed Amaranthus spp. Purslane Portulaca oleracea Pusley, Florida Richardia scabra Ragweed, common Ambrosia artemisiifolia Sida, Spiny; Teaweed Sida spinosa Smartweed Polygonum pensylvanicum Polygonum persicaria Velvetleaf, Buttonweed\* Abutilon theophrasti

\*Use a minimum of 4 to 5 quarts of this product to control these weeds. Use the higher rate in areas of heavy weed infestation, coarse textured soils or medium and fine textured soils with organic matter content greater than 3 per cent.

SEDGES Nutsedge, yellow\* Cyperus esculentus

\*Use 5 quarts per acre of this product on medium and fine textured soils and preplant incorporate only for control of this weed. When applied premergence to coarse textured soils with less than 3 per cent organic matter at rates of 4 to 5 quarts per acre, this product will provide reduced competition from this weed.

When applied preplant incorporated or immediately after planting and within 5 days of last tillage, this product at a rate of 4 to 5 quarts per acre on a broadcast basis will reduce competition from the following HARD-TO-CONTROL weeds:

#### ANNUAL GRASSES

#### ANNUAL BROADLEAF

Johnsongrass, seedling
Sorghum halepense
Rice, red
Oryza sativa
Shattercane, wild cane
Sorghum bicolor
Volunteer sorghum
Sorghum bicolor

Sicklepod Cassia obtusifolia

#### APPLICATION SYSTEMS

Ground Application - Apply as a broadcast treatment in 10 or more gallons of water or sprayable fluid fertilizer per acre. Do not apply during periods of gusty winds or winds in excess of 15 MPH.

Band Treatment--Apply a broadcast equivalent rate and volume per acre. To determine these:

Band width

in inches Broadcast Band
Row width X RATE = RATE
in inches per acre per acre

Band width

in inches
Row width X VOLUME = VOLUME
in inches per acre per acre

Mount spray equipment on the planter with nozzles behind press wheel and apply this product at planting time.

Aerial-Fixed wing; helicopter - Apply the recommended rates of this product or approved tank mixtures in 3 to 10 gallons of water per acre. AVOID DRIFT- DO NOT APPLY DURING INVERSION CONDITIONS, WHEN WINDS ARE GUSTY, OR UNDER ANY OTHER CONDITION WHICH WILL ALLOW DRIFT. Coarse sprays are less likely to drift, therefore do not use nozzles or nozzle configurations which dispense spray or fine spray droplets. Do not angle nozzles forward into the airstream and do not increase spray volume by increasing nozzle pressure. Ensure uniform application. To avoid streaked, uneven or overlapped application, use mechanical marking systems only, HUMAN FLAGGERS PROHIBITED!

#### CHEMIGATION

Apply this product and labeled tank mixtures only through center pivot irrigation systems. Do not apply this product through any other type of irrigation system.

Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. Use only in systems that apply uniformly.

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.

Do not chemigate through systems connected to a public vater system.

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A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise. Do not apply when system connections or fittings leak, when nozzles do not provide uniform distribution or when the line containing the product must be dismantled and drained.

The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a Latering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a systems interlock. Pumps, injection equipment, agitation equipment. hoses and connections between <u>supply</u> tank and the point of injection must be constructed of materials which are resistant to Lasso.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Meter this product into the center pivot irrigation system after planting and before crop emergence. Herbicide application should be made in 1/3 to 3/4 inch of water per acre. Do not apply in more than 3/4 inch of water per acre under any conditions or reduced performance may occur. On very sandy soils (more than 60 per cent sand and less than 1 per cent organic matter), apply this product in a maximum of 1/2 inch water per acre. Good agitation must be maintained during the entire application period. Flush the system with water when application is complete. Refer to the "MIXING, SPRAYING AND HANDLING INSTRUCTIONS" section of the label for mixing procedures.

NOTE: Applications can be made by injection through center pivot irrigation equipment only when specified for the crop to be treated in the "DIRECTIONS FOR USE" section of this label. Do not apply this product or any labeled tank mixture through center pivot irrigation unless the treatment is specifically recommended in this label for the crop to be treated.

#### CULTIVATION INFORMATION

If annual grass or broadleaf weed seedlings emerge, rotary hoe immediately to improve weed control.

If cultivation is necessary because of soil crusting or compaction, tillage should be shallow to minimize dilution of this herbicide.

Except for the above, as long as the grasses and weeds are controlled, delay cultivation as long as possible.

If band application is used, avoid throwing soil during cultivation onto the band before weeds emerge in the band.



Surface Application--Apply this product in 10 or more gallons of water per acre anytime from immediately after planting until weeds or grasses reach the 2-leaf stage and the crop is no more than 5 inches tall. Some leaf burn to the crop may occasionally occur, but this should not affect subsequent crop growth or yield. This product can also be applied with sprayable fluid fertilizer in 10 or more gallons per acre. Applications with sprayable fluid fertilizer must be made prior to crop emergence. Performance may be improved when application is made prior to weed emergence. Applications made beyond the 2-leaf stage of weed growth will not provide satisfactory weed control. On sweet corn, use this product before crop or weeds emerge. See the following table for recommended broadcast rates per acre for surface applications.

Preplant Incorporation-Broadcast spray this product in 10 or more gallons of water or sprayable fluid fertilizer and incorporate thoroughly into the top 2 inches of soil within 7 days prior to planting. When using one-pass incorporation (Surface Blend<sup>m</sup>) the equipment used must provide uniform and shallow blending to avoid streaking the treatment. To insure shallow incorporation of 2 inches or less, pull-type tillage equipment should has set to work the soil NO DEEPER THAN 4 INCHES.

This product is diluted when incorporated into the soil. Therefore, SHALLOW AND UNIFORM incorporation of the herbicide treatment is essential.

"Surface Blend is a trademark of Monsanto Company.

See the following table for the recommended broadcast rates per acre for preplant incorporated applications:

#### Surface Application or Preplant Incorporated Application Rates

#### BROADCAST RATE PER ACRE (QUARTS)

SOIL TEXTURAL GROUP*	Less than 3% organic matter	3% or more organic matter
COARSE**	2.5	3
MEDIUM	3	3.75
FINE	3.75	3.75 to 4.5

Use up to 5 quarts of this product per acre to control cocklebur, annual morningglory, velvetleaf or heavy grass infestations or to reduce competition from the hard-to-control weeds listed on this label.

NOTE: To CONTROL yellow nutsedge, apply 5 quarts of this product per acre on medium and fine textured soils and preplant incorporate only.

\*Refer to the "SOIL TEXTURE" section of this label to determine the corresponding soil textural group for the soil to be treated.

\*\*When applied through center pivot irrigation or under sprinkler irrigation systems on coarse soils, use a minimum of 3 quarts of this product per acre. DO NOT exceed 1/3 to 3/4 inch of water per acre with the first irrigation as reduced effectiveness may result.

## BLADEX plus THIS PRODUCT (TANK MIXTURE)

Apply this tank mixture in water or sprayable fluid fertilizer solutions for control of annual grasses and broadleaf weeds listed in the "WEEDS CONTROLLED" section of this label. Refer to the rate table for this product and to the Bladex rate table below for either surface application or preplant incorporation.

#### Surface Application or Preplant Incorporated Application Rates

# BROADCAST RATE PER ACRE (QUARTS) BLADEX

SOIL TEXTURAL GROUP	Less than 3% organic matter	3% or more organic matter	
COARSE*	1	1 to 1.25	
MEDIUM	1 to 1.25	1.5 to 2	
FINE	1.25 to 1.5 .	1.5 to 2	

<sup>\*</sup>Do not use this mixture on sand or loamy sand soils with less than 2% organic matter.

#### EARLY PREPLANT SYSTEMS

For use in no-till and other conservation tillage systems in DELAWARE, ILLINOIS, INDIANA, IOWA, KANSAS, KENTUCKY, MARYLAND, MINNESOTA, MISSOURI, NEBRASKA, NORTH CAROLINA, OHIO, SOUTH DAKOTA, VIRGINIA, AND WISCONSIN.

This product, when applied in a single application (alone or in a tank mix combination with Bladex or Princep), split aplication or as a sequential application to Bladex or Princep in early preplant programs, will provide preemergence control or reduced competition of listed annual grasses and broadleaf weeds.

If emerged weeds are present at the time of treatment, Gramoxone Super or 2,4-D should be added to the product according to the directions for use on their respective product labels. If unsatisfactory weed control occurs (due to excessively dry or excessively wet conditions) following the earlier application, a postemergence application of an appropriate labelled grass and/or broadleaf weed herbicide may be used. If a postemergence treatment includes the herbicide used early preplant, do not exceed the labelled rate for corn on a given soil texture. Observe all precautions and limitations on the labels for Bladex, Princep, Gramoxone Super, 2,4,-D and other postemergence herbicides before use of these products.

#### RECOMMENDED RATE AND TIMING OF APPLICATION

Single application of Bullet - Single application treatments should be made less than 30 days before planting but prior to weed emergence. Single application treatments should be restricted to areas north of Interstate 70 when west of the Mississippi River and north of Interstate 64 when east of the Mississippi River where cool spring weather minimizes or slows biodegration of herbicides.

See the following rate table for recommended broadcast rates per acre for single application.

SOIL	BROADCAST RATE PER ACRE (QUARTS)**
TEXTURAL GROUP	BULLET®
Coarse*	3.5 to 4
Medium	3.75 to 4.75
Fine	4.75 to 6

The single application treatments of Bullet may also be tank mixed with 1 to 1.25 quarts per acre of Princep or 1.5 to 2 quarts per acre of Bladex to provide improved control of fall panicum and crabgrass.

\*Single applications on coarse soils should not be made more than 2 weeks prior to planting.

\*\*Use the lower rate where light weed infestation is expected and the higher rate where heavy weed infestation is expected.

Split application of Bullet - Apply 60 percent of the recommended rate as a split treatment prior to weed emergence and no more than 45 days prior to planting and the remaining 40 percent at or immediately following planting.

FOR CONTROL OF FALL PANICUM, CRABGRASS OR BROADLEAF SIGNALGRASS USE THE SEQUENTIAL APPLICATION OF BULLET FOLLOWING BLADEX OR PRINCEP.

Set the following rate table for recommended broadcast rates per acre for split application.

SOIL TEXTURAL GROUP	BROADCAST RATE PER ACRE (QUARTS)* BULLET®
Coarse	3.5 to 4.5
Medium	3.75 to 4.75
Fine	4.75 to 6

\*Use the lower rate where light weed infestation is expected and the higher rate where heavy weed infestation is expected.

(

Sequential application of Bullet - The sequential program of Bullet following Bladex or Princep should be utilized for the control of fall panicum, crabgrass or roadleaf signalgrass. Apply 1.5 to 2 quarts per acre of Bladex or 1 to 1.25 quarts per acre of Princep prior to weed emergence and no more than 45 days prior to planting. At or immediately following planting apply the recommended rate of Bullet.

For recommended rates of this product following applications of Bladex or Princep see the following sequential application rate table.

SOIL - TEXTURAL GROUP	<u> </u>	BROADCAST RATE PER ACRE (QUARTS)* BULLET®
Coarse	·	3 to 4
Medium Fine		3.5 to 4.5 3.75 to 4.75

\*Use the lower rate where light weed infestation is expected and the higher rate where heavy weed infestation is expected.

When using Bladex 80W or Bladex 90 DF use equivalent rates. One quart of Bladex 4L equals 1.25 pounds of Bladex 80W and 1.1 pounds of Bladex 90 DF. When using Princep 80W or Princep 90 use equivalent rates. One quart of Princep 4L equals 1.25 pounds of Princep 80W and 1.1 pounds of Princep 90.

DO NOT use Bladex on coarse textured soils or soils with less than 1 percent organic matter.

NOTE: Soil treated with Princep shoud not be planted to any crop except corn for one year following treatment as crop injury may occur. After harvest of the treated crop, plow and thoroughly till the soil in the fall or spring to minimize possible injury to spring seeded rotational crops.

#### MINIMUM TILLAGE SYSTEMS

## TANK MIXTURES OF THIS PRODUCT plus GRAMOXONE SUPER

When applied as directed under the conditions described, these tank mixtures control many emerged annual weeds, suppress many emerged perennial weeds and give preemergence control of many annual weeds when corn will be planted directly into a cover crop, established sod or in previous crop residues. These tank mixtures will not control regrowth from perennial weeds.

Refer to specific product labels for crop rotation restrictions and cautionary statements of all products used in the tank mixture.

For mixing instructions, see the "MIXING, SPRAYING AND HANDLING INSTRUCTIONS" section of this label.

Apply the tank mixture of this product with Gramoxone Super in 20 to 60 gallons of water per acre immediately before, during or after planting but BEFORE CROP EMERGENCE. As previous crop residue or vegetation increases, spray volume should be increased within the recommended range to insure complete coverage.

For recommended rates of this product with tank mixtures with Gramoxone Super see the following minimum tillage rate table.

SOIL TEXTURAL GROUP*	BROADCAST RATE PER ACRE (QUARTS) BULLET®
COARSE	3
MEDIUM	3.75
FINE	3.75 to 4.5

Use up to 5 quarts of this product per acre to control cocklebur, annual morningglory, velvetleaf or heavy grass infestations, or to reduce competition from the hard-to control weeds listed on this label.

\*Refer to the "SOIL TEXTURE" section of this label to determine the corresponding textural group for the soil to be treated.

#### ATTENTION

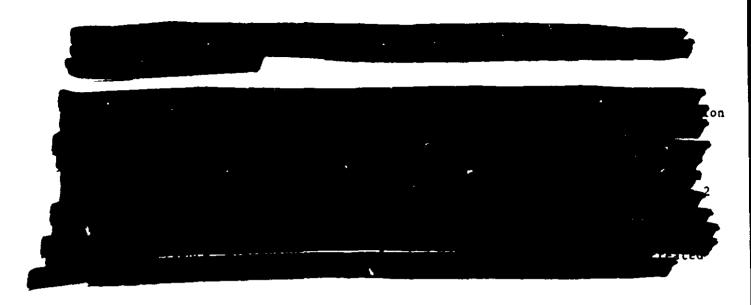
AVOID DRIFT--EXTREME CARE MUST BE USED WHEN APPLYING THESE TANK MIXTURES TO PREVENT INJURY TO DESIRABLE PLANTS AND CROPS. Do not allow spray mist to drift since even minute quantities of spray can cause severe damage or destruction to nearby crops, plants or other areas on which treatment is not intended. Do not apply when winds are gusty or in excess of 5 miles per hour or when other conditions, including lesser wind velocities, will allow drift to occur. When spraying avoid combinations of pressur and no zle type that will result in fine particles (mist) which are more likely to drift.

For weeds controlled preemergence see the "WEEDS CONTROLLED" section of this label. For control of emerged weeds, see the "WEEDS CONTROLLED" sections of the labels for Gramoxone Super. PLEASE NOTE THAT GRAMOXONE SUPER IS A HIGHLY TOXIC SUBSTANCE WHICH CAN BE FATAL IF MISUSED. READ THE ENTIRE GRAMOXONE SUPER LABEL AND USE ONLY AS DIRECTED.

# GRAMOXONE SUPER plus THIS PRODUCT (TANK HIXTURE)

When used as directed, Gramoxone Super in tank mixture with this product controls many emerged annual weeds and suppresses many emerged perennial weeds. Apply 1.5 to 2.5 pints of Gramoxone Super (0.25 to 0.5 lb active) with the amount of this product recommended in the "MINIMUM TILLAGE" section of this label per acre immediately before, during or after planting but BEFORE CROP EMERGENCE. Use the 2.5 pint rate if weeds are 4 to 6 inches tall. This mixture may not control weeds taller than 6 inches. Add a nonionic spreader surfactant (approved for use on crops) containing at least 75 percent surface active agent at 8 fluid ounces per 100 gallons of diluted spray solution.





LASSO® and/or ATRAZINE plus THIS PRODUCT (TANK MIXTURE)

For hard-to-control weeds, additional amounts of Lasso and/or atrazine may be added to the recommended treatment rates for this product to provide improved control. For more consistent control of common cocklebur, annual morningglory or velvetleaf, additional atrazine may be applied so the total atrazine rate is at least 1.5 quarts per acre on medium soil with less than 3 per cent organic matter and 1.5 to 2 quarts on medium and fine soils with 3 per cent or greater organic matter content. The following table shows the amounts of Lasso and/or atrazine that can be added to specific treatment rates of this product.

RECOMMENDED RATE (QUARTS)  BULLET®	ADDITIONAL PRODUCT (QUARTS)	
	LASSO	ATRAZINE (maximum)
2.5	1.25 to 2.25	1.1
3	1 to 2	0.9
3.5	0.75 to 1.75	0.7
4	0.5 to 1.5	0.5

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#### **CHONSANTO COMPANY 1988**

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