

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.

LASSO®
HERBICIDE BY Monsanto

Emulsifiable herbicide for weed control in corn, soybeans, peanuts, grain sorghum (milo) and crops listed.

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.

®Lasso is a registered trademark of Monsanto Company.

Complete Directions for Use

EPA Reg. No. 524-314

For use of this product in California see page

1995-1

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1205881-6/53

Read each of these sections of this label for essential product performance information.

PRECAUTIONARY STATEMENTS

GENERAL INFORMATION

MIXING, SPRAYING AND
HANDLING INSTRUCTIONS

FLUID FERTILIZER

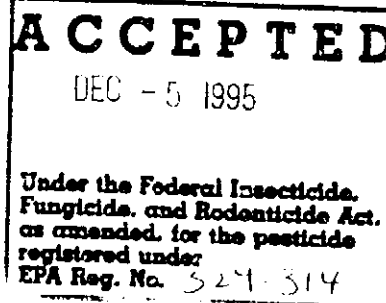
COMPATIBILITY TEST

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WEED CONTROL WITH LASSO

CROPS



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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

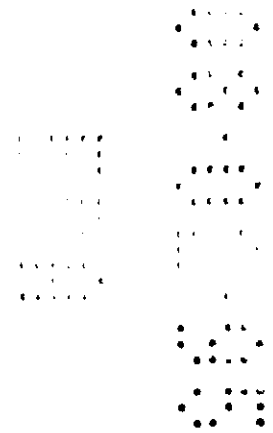
This Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes set forth in the Complete Directions for Use label booklet ("Directions") when used in accordance with those Directions under the conditions described therein. NO OTHER EXPRESS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

Buyer and all users shall promptly 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, 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 DAMAGES 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 ELECTION OF THIS COMPANY OR ANY OTHER SELLER, THE REPLACEMENT OF SUCH QUANTITY, OR, IF NOT ACQUIRED BY PURCHASE, 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.



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FLUID FERTILIZER COMPATIBILITY TEST

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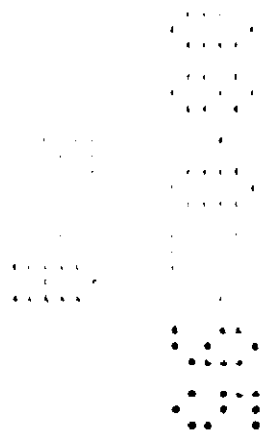
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PRECAUTIONARY STATEMENTS

**HAZARDS TO HUMANS
AND DOMESTIC ANIMALS**

Keep out of reach of children.

DANGER! PELIGRO!

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

**CORROSIVE. CAUSES IRREVERSIBLE EYE DAMAGE.
CAUSES SKIN IRRITATION.
MAY CAUSE RESPIRATORY TRACT IRRITATION.
HARMFUL IF SWALLOWED.
MAY CAUSE ALLERGIC SKIN REACTION.**

Do not get in eyes, on skin or on clothing.

Avoid breathing vapor or spray mist.

FIRST AID: IF IN EYES, immediately flush with plenty of water for at least 15 minutes. Get medical attention.

IF ON SKIN, immediately flush with plenty of water. Sensitized persons should avoid further contact and reuse of contaminated clothing. Get medical attention.

IF SWALLOWED, call a physician or Poison Control Center immediately. DO NOT induce vomiting unless directed by a physician or other medical personnel. Vomiting may cause aspiration pneumonia. Give large quantities of water. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

IF INHALED, remove to fresh air. Get medical attention if breathing difficulty develops.

Personal Protective Equipment

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instruction for category H G on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear: long-sleeved shirt and long pants; chemical-resistant gloves, such as barrier laminate and or viton; chemical-resistant footwear plus socks; and protective eyewear.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE: If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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

User Safety Recommendations

User should:

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

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 anti-siphoning 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.

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

Physical or Chemical Hazards

COMBUSTIBLE.

Do not use or store near heat or flame.

Use only with adequate ventilation.

In case of: FIRE, use water spray, foam, dry chemical or CO₂.
SPILL or LEAK, soak up, remove and keep away from humans and domestic animals.

ACTIVE INGREDIENT:

*Alachlor.....	45.18
INERT INGREDIENTS.....	54.98
	<u>100.08</u>

Contains petroleum distillates.

*Contains 480 grams/litre or 4 pounds/gallon of 2-chloro-2',6'-diethyl-N-(methoxymethyl)acetanilide.

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Agricultural Use Requirement

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

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is: coveralls; chemical-resistant gloves, such as barrier laminate and or viton; chemical-resistant footwear plus socks; and protective eyewear.

For more information, call toll-free 1(800) 331-3111.

Storage and Disposal

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

STORAGE:

STORE ABOVE 32°F TO KEEP PRODUCT IN SOLUTION.

Below 32°F crystals may form and settle to the bottom. If crystals form, place in a warm room and roll and/or shake the container frequently for redissolve before using. For bulk containers, see the container label for alternate storage information.

DISPOSAL:

Wastes of this pesticide may cause eye burns and skin irritation and may be dangerous. Improper disposal of excess pesticide, spray mixtures or rinsate is a violation of Federal law. If these wastes cannot be disposed of according to label use instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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

(See the individual container label for disposal information.)

GENERAL INFORMATION

Lasso herbicide is recommended for control of yellow nutsedge and the annual grasses and broadleaf weeds listed in the "WEEDS CONTROLLED" section of this label. This product may be applied either as a surface application before or after planting or shallowly incorporated prior to planting to blend the herbicide treatment into the upper 1 to 2 inches of soil. The seedbed should be fine, firm and free of clods when tillage is performed.

Read and carefully observe precautionary statements and all other information appearing on the labeling of all products used in mixtures and sequential treatments.

Do not flood irrigate following application of this product or tank mixtures. This product will not control emerged seedlings.

Do not apply when conditions favor drift.

Use of this product 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.

Flush sprayer with clean water after use.

SOIL TEXTURE

Applicators should evaluate soil and weed conditions carefully to ensure 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:

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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 mixers/loaders and/or applicators who treat 300 acres or more annually with pesticides containing alachlor as an active ingredient.

Direct contact or exposure to Lasso or spray mixtures of Lasso 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 is strongly recommended.

55 Gallon and 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 being 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 Lasso or labeled tank mixtures of Lasso with water carrier or sprayable fluid fertilizer carrier by mixing small proportional quantities in advance. See the "STANDARD SPRAYABLE FLUID FERTILIZER COMPATIBILITY TEST" section in this label to determine the

compatibility of this product and the labeled tank mixtures recommended for use with sprayable fluid fertilizer carrier.

NOTE: Lasso and all tank mixtures listed for corn, sorghum and soybeans in the "DIRECTIONS FOR USE" section may be applied in sprayable fluid fertilizers. DO NOT apply Lasso or labeled tank mixtures of Lasso in sprayable fluid fertilizers on any other crops.

Mix Lasso or labeled tank mixtures of Lasso with the appropriate carrier as follows:

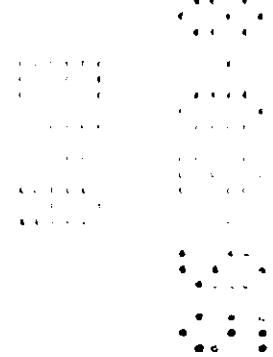
1. Place a 20 to 35 mesh screen or wetting basket over filling port.
2. Through the screen, fill the sprayer tank one-half full with the appropriate carrier.
3. If a compatibility agent is necessary to improve mixing or to prevent the formation of undesirable and unsprayable gels or precipitates, while agitating add it to the carrier already in the tank. Use only compatibility agents cleared by FDA for this use. Read and follow all directions for use, cautionary statements and all other information appearing on the selected compatibility agent label. Check for adequate agitation.
4. If a wettable powder or dry flowable formulation is used, make a slurry with water and add it slowly through the screen into the tank. Continue agitation.
5. If a flowable formulation is used, add slowly through screen into the tank. Mixing and compatibility may be improved when flowable is premixed one part flowable with one part water and added to the tank in diluted form.
6. Add Lasso slowly through the screen into the tank. Mixing and compatibility may be improved when this product is prediluted with two parts of water and added to the tank in diluted form.
7. Complete filling the sprayer tank with carrier. If Roundup® herbicide or Gramoxone™ Extra is used, add the required amount near the end of the filling process. Remove hose from tank immediately after filling to avoid siphoning back into the carrier source.

Maintain good agitation at all times 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 bottom of tank to minimize foaming. Screen size in nozzle or line strainers should be 50 mesh. Carefully select proper nozzle to avoid spraying a fine mist. Check for even distribution of spray droplets. To reduce loss of the chemical due to drift of a fine mist, apply at nozzle pressures below 40 psi.

®Roundup is a registered trademark of Monsanto Company.
™Gramoxone is a trademark of a ZENECA Group Company.

**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. Sprayable fluid fertilizer to be tested.
4. The herbicide chemicals to be mixed.
5. A compatibility agent (the purpose of the adjuvant is to help keep the fertilizer and crop protection chemical 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

WITHOUT

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 in one pint 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) listed in the following tables. If more than one is used, add them separately with the wettable powders or dry flowables 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
Wettable	1 lb	=	1.5
Powders or	2 lb	=	3
Dry Flowables	3 lb	=	4.5
	4 lb	=	6
	5 lb	=	7.5

HERBICIDE	RATE/A		Level TEAspoons		Milliliters
Emulsifiable	1 pint	=	0.5	or	2.0
Concentrates or	1 quart	=	1	or	4.7
Flowables or	2 quarts	=	2	or	9.5
Liquids or	3 quarts	=	3	or	14.2
Solutions	1 gallon	=	4	or	19.0
	5 quarts	=	5	or	23.8

This compatibility test is designed for 25 gallons of spray per acre. 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 oily particles in the solution.

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

If incompatibility as described above occurs in the jar "without" the adjuvant but not in the jar "with" adjuvant, the use of a compatibility adjuvant 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. An emulsifiable concentrate normally will go to the top after standing; 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 having to use a compatibility agent, fluid fertilizer may be used for the premixing. If it is not compatible without the compatibility agent, the herbicide(s) should be premixed with water before adding to the spray tank.

APPLICATION INFORMATION

APPLICATION SYSTEMS

Ground Broadcast Treatment-Apply this product and the labeled tank mixtures in 10 or more gallons of solution per acre using broadcast boom equipment. The carrier may be either water or sprayable fluid fertilizer as specified for the crop to be treated in the "DIRECTIONS FOR USE" section of this label. Do not apply during periods of gusty winds, when winds are in excess of 15 mph or when other conditions favoring drift exist.

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

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Broadcast RATE per acre} = \text{Band RATE per acre}$$

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Broadcast VOLUME per acre} = \text{Band VOLUME per acre}$$

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.

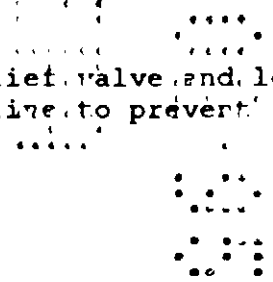
Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from nonuniform distribution of treated water. Use only in systems that apply uniformly.

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 water system.

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 shutdown.

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 metering 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 supply tank and the point of injection must be constructed of materials which are resistant to Lasso.

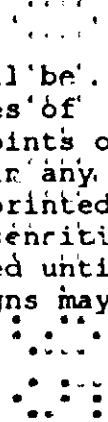
Do not apply when wind speed favors drift beyond the area intended for treatment.

Meter Lasso herbicide or a labeled tank mixture of Lasso 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 percent sand and less than 1 percent organic matter), apply these herbicides in a maximum of 1/2 inch of 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.

Posting of areas to be chemigated is required when any part of a treated area is within 300 feet of sensitive areas such as residential areas, labor camps, businesses, day-care centers, hospitals, in-patient clinics, nursing homes or any public area such as schools, parks, playgrounds or other public facilities not including public roads.

Posting must conform to the following requirement. Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas. When there are not usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas. The printed side of the sign should face away from the treated area towards the sensitive area. Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared. Posting signs may be



obtained from your local farm chemical dealer. This sign is in addition to any sign posted to comply with the Worker Protection Standard.

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!

Application with Dry Bulk Fertilizer-The herbicide-dry fertilizer impregnation process (In-Plant and On-Board systems) must be completed only by commercial fertilizer or chemical dealerships properly equipped for this procedure. Contact Monsanto Company for additional information regarding recommended equipment and methods for herbicide-fertilizer impregnation applications.

Dry bulk fertilizer may be impregnated with Lasso or the tank mixtures of Lasso plus atrazine or Lasso plus Bladex™ on corn, Lasso or the tank mixture of Lasso plus atrazine on grain sorghum, and Lasso or the tank mixtures of Lasso plus Lexone™ or Lasso plus Sencor™ on soybeans. Lasso and these tank mixtures must be applied with 200 to 450 pounds of dry bulk fertilizer per acre and shallowly incorporated within 7 days prior to planting. On medium and fine-textured soils in areas where soil incorporation is not planned (i.e., reduced tillage situations or in some conventional till situations) applications can be made up to 30 days before planting to allow moisture to move the herbicide-fertilizer mixture into the soil. On coarse-textured soils, applications can be made up to 14 days prior to planting. The herbicide must be applied as recommended in this label for the crop, weed and soil type. Refer to the table for broadcast rate per acre in the appropriate crop section of this label to determine the recommended 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:

Fertilizer Rate (Lbs./Acre)	Acres Covered (Per Ton)	RECOMMENDED QUARTS LIQUID HERBICIDE/ACRE			
		1.5	2	2.5	3
		(Quarts of Herbicide/Ton Dry Bulk Fertilizer)			
200	10	15	20	25	30
250	8	12	16	20	24
300	6.7	10	13.3	16.7	20
350	5.7	8.6	11.4	14.3	17.1
400	5	7.5	10	12	15
450	4.5	6.7	8.9	11.1	13.3

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

Recommended herbicide rate (Lbs. or Qts.)/acre x 2000 / pounds fertilizer/acre = Pounds or quarts herbicide per ton of dry bulk fertilizer

With the In-Plant system, 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 absorptive capacity, a highly absorptive material such as AgsorbTM, MP-79TM, MicrocelTME, CropStar[®] or Lasso II granules can be added to provide a free-flowing mixture. Contact Monsanto Company for specific guidelines with regard to the sequence of addition for the various components and the amount of drying agent to add to provide a free-flowing mixture.

When using CropStar or Lasso II granules as an absorptive material, refer to the table below for the correct rates. The CropStar rate is the same as the Lasso II rate. If the total amount of Lasso liquid herbicide in the tank mixture to be impregnated exceeds 3.25 quarts per acre additional non-herbicidal absorptive material may be necessary to ensure a free flowing mixture.

POUNDS PLUS QUARTS OF HERBICIDE/ACRE TO IMPREGNATE ON DRY BULK FERTILIZER.

Recommended Total Lasso [®] Broadcast Rate/Acre					
		(Quarts)			
3		3.5		4	
Lasso II (Lbs)	Lasso (Quarts)	Lasso II (Lbs)	Lasso (Quarts)	Lasso II (Lbs)	Lasso (Quarts)
5	2.25	5	2.75	5	3.25

The following table provides a partial list of dry fertilizers which may be impregnated with Lasso or tank mixtures of Lasso with other herbicides:

Fertilizer	Lasso [®]	Lasso + atrazine	Lasso + Bladex	Lasso + Lexone or Sencor
Ammonium sulfate (21-0-0)	Yes	Yes	Yes	Yes
Ammonium phosphate-sulfate (16-20-0)	Yes	Yes	Yes	Yes
Diammonium phosphate (18-46-0)	Yes	Yes	Yes	Yes
Potassium chloride (0-0-60)	Yes	Yes	Yes	Yes

Potassium sulfate (0-0-52)	Yes	Yes	Yes	Yes
Single super-phosphate (0-20-0)	Yes	No	No	Yes
Treble super-phosphate (0-46-0)	Yes	No	No	Yes
*Urea (46-0-0)	Yes	Yes	Yes	Yes

*Some ureas may be phytotoxic when applied on corn. Use only ureas known to be safe to corn.

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

Spread the herbicide-dry fertilizer mixture uniformly with a properly calibrated dribble, pneumatic (air flow) or spin applicator. When using spin applicators, the herbicide-dry fertilizer mixture must be spread at half-rate and overlapped 100 percent to obtain full rate and uniform distribution. Nonuniform spreading of the fertilizer-herbicide mixture may result in unsatisfactory weed control or crop injury.

- ™Agsorb is a trademark of Oil Dri Corporation.
- ™Bladex and Lexone are trademarks of E. I. du Pont de Nemours and Company.
- ©CropStar is a registered trademark of Monsanto Company.
- ™Microcel is a trademark of Manville Products Corporation.
- ™MP-79 is a trademark of Eagle Picher Industries, Inc.
- ™Sencor is a trademark of the parent company of Farbenfabriken Bayer GmbH.

APPLICATION TIMING AND METHODS

Early Preplant Surface-Some labeled tank mixtures of this product may be applied in no-till and other conservation tillage systems before weeds emerge and up to 45 days before planting certain crops. Split applications can be made 30 to 45 days prior to planting, with 60 percent of the recommended broadcast rate applied initially and the remaining 40 percent applied at planting. Applications made less than 30 days prior to planting can be made either as a split or as a single application. Refer to the individual crop to determine if early preplant application is recommended. If weeds are present at the time of application, apply this product in tank mixtures with an appropriate contact herbicide. Observe directions for use, precautions and restrictions on the label of the contact herbicide. During the planting operation, be careful not to move untreated soil to the surface or move treated soil out of the row, as weed control may be reduced.

Preplant Incorporation-This product and many of the labeled tank mixtures may be mixed into the soil using shallow incorporation equipment any time within 7 days prior to planting. Refer to the crop to be treated in the "DIRECTIONS FOR USE" section of this label to determine if preplant incorporation is recommended. Apply the recommended treatment rate to the soil surface as a broadcast application. Precipitation or irrigation is required to bring incorporated herbicide treatments into contact with germinating weed seedlings. The amount of precipitation or irrigation required depends on...

existing soil moisture, soil type and percent organic matter content, but 1/3 to 3/4 inch is normally adequate. If weeds emerge after treatment, rotary hoe or shallowly cultivate immediately to improve performance.

NOTE: Do not incorporate unless specifically recommended in this label for the crop and herbicide treatment selected. Incorporation of this product and its labeled tank mixtures on coarse soil types may reduce length of weed control due to leaching with rainfall or irrigation.

1-Pass Incorporation (Surface Blend™): Shallowly incorporate (Surface Blend) the treatment into the upper 1 to 2 inches of the soil. Equipment should be operated at manufacturer's designed speed for incorporation to ensure adequate mixing and distribution of the herbicide treatment in the soil. Equipment design, including any drag attachments, must be adequate to avoid soil ridging which may result in streaked or reduced weed control. Soil conditions, including moisture content and crop residue levels, must be suitable to allow thorough and uniform mixing with the equipment used for 1-pass incorporation.

Contact Monsanto Company for additional information regarding recommended equipment and methods for Surface Blend application.

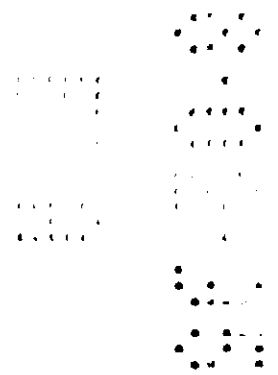
2-Pass Incorporation: When 2-pass incorporation is used, shallowly incorporate the herbicide treatment into the upper 1 to 2 inches of the soil with equipment set to work the soil NO DEEPER THAN 4 INCHES. The second pass must be made at an angle to and no deeper than the first pass to ensure proper distribution of the herbicide treatment in the soil.

Preemergence Surface Application-This product and all labeled tank mixtures except Lasso plus Command™, Lasso plus Eptam™ and Lasso plus Treflan™ may be applied to the soil surface after planting and prior to either crop or weed emergence. Apply within 5 days of last preplant tillage. If weeds emerge after treatment, or if treatment is applied more than 5 days after last preplant tillage, rotary hoe or shallowly cultivate immediately to improve performance. Precipitation or overhead sprinkler irrigation is required after application to move the herbicide treatment into the weed germination zone. The amount of precipitation or overhead sprinkler irrigation required depends on existing soil moisture, soil type and percent organic matter content, but 1/3 to 3/4 inch is normally adequate. Performance is improved when moisture is received within 7 days after application and prior to weed emergence. High-intensity or excessive rainfall or excessive irrigation after application may reduce control.

Cultivation Information-Delay cultivation after application for as long as possible unless weeds or grasses emerge. Shallowly cultivate or rotary hoe immediately if weeds or grasses emerge. If cultivation is necessary because of soil crusting or compaction, set equipment shallow and minimize lateral soil movement to avoid dilution or displacement of the herbicide treatment. If a band application is used and weeds have emerged in the treated band, set cultivator to throw soil into the row covering the band. On peanuts, do not throw soil into the row.

™Command is a trademark of FMC Corporation.
™Eptam is a trademark of ICI Americas Inc.
™Surface Blend is a trademark of Monsanto Company.
™Treflan is a trademark of DowElanco Products Company.

WEEDS CONTROLLED



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

When applied as directed under conditions described, this product and tank mixtures of this product will control or reduce competition from the weeds listed. Refer to the crop on which treatment is intended to determine the rates and tank mixtures recommended.

For the scientific names of the weeds listed below, refer to the appendix at the end of this booklet.

The tank mixtures of Lasso plus atrazine, Lasso plus Bladex, Lasso plus Extrazine™ II and Lasso plus Princep™ may not control triazine-resistant weeds as indicated in the tables below for these mixtures.

NOTE: C=Control R=Reduced Competition

- a = Lasso®
- b = atrazine
- c = Banvel™
- d = Bladex™
- e = Canopy™
- f = Command™
- g = Gemini™

ANNUAL GRASSES

	Lasso® plus						
	a	b	c	d	e	f	g
Barnyardgrass	C	C	C	C	C	C	C
Crabgrass	C	C	C	C	C	C	C
Cupgrass, woolly ¹	R	R	•	R	R	R	•
Foxtail: giant, green, robust purple, robust white, yellow	C	C	C	C	C	C	C
Goosegrass	C	C	C	C	C	C	C
Johnsongrass, seedling ²	R	R	R	R	R	R	R
Millet, proso ³	C	C	•	C	•	•	•
Panicum: browntop, fall	C	C	C	C	C	C	C
Panicum, Texas ⁴	R	R	R	R	R	R	R
Rice, red ⁵	C	C	•	C	C	C	•
Sandbur, Grassbur ^{2,6}	R	C	•	•	•	•	•
Shattercane, wild cane ¹	R	R	•	R	R	R	•
Signalgrass, broadleaf	C	C	C	C	C	C	C
Sprangletop, red	C	C	C	C	C	C	C
Witchgrass	C	C	C	C	C	C	C

ANNUAL BROADLEAVES

	Lasso® plus						
	a	b	c	d	e	f	g
Beggarweed, Florida ²	R	C	•	C	C	•	C
Carpetweed	C	C	C	C	C	C	C
Cocklebur	•	R	R	R	C	•	C
Coffeeweed, Hemp sesbania	•	•	•	•	C	•	C
Copperleaf, hophornbeam	•	•	•	•	C	•	C

Galinsoga	C	C	C	C	C	C	C
Groundcherry, annual	•	C	•	•	C	•	C
Groundcherry, cutleaf ⁷	C	C	C	C	C	C	C
Jimsonweed	•	C	•	•	C	C	C
Kochia	•	C	•	•	•	•	•
Lambsquarters ²	R	C	C	C	C	C	C
Morningglory: tall ⁸ ,	•	R	R	R	C	•	C
pitted, ivyleaf ⁸ , entireleaf ⁸ ,	•	•	•	•	C	•	C
smallflower	R	C	•	C	C	•	C
Mustard	•	C	C	C	C	•	C
Nightshade: black ⁷ ; hairy ⁷	C	C	C	C	C	C	C
Pigweed, Carelessweed	C	C	C	C	C	C	C
Purshlane	C	C	C	C	C	C	C
Pusley, Florida	C	C	C	C	C	C	C
Ragweed, common ²	R	C	C	C	C	C	C
Ragweed, giant	•	•	•	•	R	•	R
Sicklepod	•	C	•	C	C	•	R
Sida, prickly; Teaweed ²	R	•	•	•	C	C	C
Smartweed ²	R	C	C	C	C	R	C
Starbur, bristly	R	C	•	C	C	•	•
Sunflower, common	•	•	•	•	R	•	•
Velvetleaf, Buttonweed ⁸	•	R	R	R	C	C	C
Waterhemp	C	C	C	C	C	C	C

SEDGE

Nutsedge, yellow ⁵	C	C	•	C	C	C	•
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- a = linuron
- b = LoroxTM plus
- c = PreviewTM
- d = PursuitTM
- e = ScepterTM
- f = SencorTM
- g = TreflanTM

ANNUAL GRASSES

	Lasso® plus						
	a	b	c	d	e	f	g
Barnyardgrass	C	C	C	C	C	C	C
Crabgrass	C	C	C	C	C	C	C
Cupgrass, woolly ¹	•	•	R	R	R	R	R
Foxtail: giant, green, robust							
purple, robust white,							
yellow	C	C	C	C	C	C	C
Goosegrass	C	C	C	C	C	C	C
Johnsongrass, seedling ²	R	R	R	C	C	R	R
Millet, proso ³	•	•	•	•	•	•	•
Panicum: browntop, fall	C	C	C	C	C	C	C
Panicum, Texas ⁴	R	R	R	R	R	R	R
Rice, red ⁵	•	•	C	C	C	C	C
Sandbur, Grassbur ^{2,6}	•	•	•	•	•	•	•
Shattercane, wild cane ¹	•	•	R	R	R	R	R
Signalgrass, broadleaf	C	C	C	C	C	C	C
Sprangletop, red	C	C	C	C	C	C	C

Witchgrass C C C C C C C

ANNUAL BROADLEAVES

	Lasso® plus						
	a	b	c	d	e	f	g
Beggarweed, Florida ²	•	•	R	•	•	R	•
Carpetweed	C	C	C	C	C	C	C
Cocklebur	•	C	C	C	C	R	•
Coffeeweed	•	•	C	•	•	•	•
Copperleaf, hophornbeam	•	•	C	•	•	•	•
Galinsoga	C	C	C	C	C	C	C
Groundcherry, annual	C	C	C	C	C	C	•
Cutleaf ⁷	C	C	C	C	C	C	C
Jimsonweed	•	C	C	C	C	R	•
Kochia	•	•	•	•	•	•	C
Lambsquarters ²	C	C	C	C	C	C	•
Morningglory: tall ⁸ ,	•	R	R	R	R	•	•
pitted,	•	R	R	R	C	•	•
ivyleaf ⁸ , entireleaf ⁸	•	R	R	R	R	•	•
smallflower	•	•	•	C	•	C	•
Mustard	C	C	C	C	C	•	•
Nightshade: black ⁷ , hairy ⁷	C	C	C	C	C	C	C
Pigweed, Carelessweed	C	C	C	C	C	C	C
Purslane	C	C	C	C	C	C	C
Pusley, Florida	C	C	C	C	C	C	C
Ragweed, common ²	C	C	C	R	C	C	•
Ragweed, giant	•	R	R	R	R	•	•
Sicklepod	•	•	•	•	R	R	•
Sida, prickly; Teaweed ²	C	C	C	C	C	C	•
Smartweed ²	C	C	C	C	C	C	•
Starbur, bristly	•	•	•	•	C	C	•
Sunflower, common	•	•	R	C	C	C	•
Velvetleaf, Buttonweed ⁸	R	C	C	C	C	R	•
Waterhemp	C	C	C	C	C	C	C

SEDGE

Nutsedge, yellow⁵ • • C C C C C

- 1 Use 4 quarts per acre of this product applied alone or in tank-mix combinations. Preplant incorporate only to reduce competition from this weed. In areas of heavy weed infestation on corn only, apply an additional 2 quarts per acre of Lasso any time from planting until corn emergence is 5 inches tall for control of this weed. This sequential treatment must be made prior to emergence of the weed.
- 2 For reduced competition from this weed using Lasso alone, use 2.5 to 4 quarts of Lasso per acre.
- 3 Plant corn into freshly prepared seedbed. Apply 4 quarts of Lasso per acre preemergence surface immediately after corn planting. Apply an additional 2 quarts of Lasso per acre delayed preemergence 6 to 10 days after planting, but before wild proso millet and corn emerge. If weather conditions prevent the timely application of the delayed preemergence application, apply a labeled postemergence herbicide.

- 4 Use a minimum of 3 quarts of Lasso per acre and apply through center pivot irrigation or under sprinkler irrigation systems. DO NOT apply Lasso plus atrazine tank mixture through center pivot irrigation systems.
- 5 Use 3 to 4 quarts of Lasso per acre applied alone or in tank mixture and apply preplant incorporated only for control on medium and fine-textured soils. When tank-mixed with Pursuit or Scepter, use 2 to 3 quarts of Lasso per acre and preplant incorporate only. On coarse-textured soils with less than 3 percent organic matter, use 3 to 4 quarts of Lasso per acre as a preemergence surface application to reduce competition from yellow nutsedge.
- 6 Apply 2.5 to 3 quarts of Lasso plus 1 to 2 quarts of atrazine 4L per acre. Preplant incorporated applications should be made immediately before planting. Preemergence surface application should be applied to a freshly prepared seedbed. For best control, rotary hoe or initiate overhead irrigation (1/3 to 1/2 inch) within 24 hours of application.
- 7 Use a minimum of 2.5 quarts of Lasso per acre on coarse soils, or 3 quarts of Lasso per acre on medium and fine soils when used alone or in tank mixture with Banvel, Canopy, Command, Preview, Sencor/Lexone or Treflan for control of this weed.
- 8 For best results on these species when using Lasso plus Scepter tank mixture, use preplant incorporated treatments.

NOTE: The 3-way tank mixture of Lasso plus atrazine plus Bladex controls or reduces competition as specified for the respective weeds listed under the Lasso plus atrazine and Lasso plus Bladex recommendations.

Certain tank mixtures of Lasso and broadleaf herbicides may be combined with applications of Roundup herbicide or Gramoxone Extra for control of many emerged weeds prior to corn or soybean emergence. Refer to the Roundup or Gramoxone Extra label for a list of emerged weeds controlled by tank mixtures with these products.

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TMCanopy, Extrazine, Gemini, Lorox and Preview are trademarks of E.I. du Pont de Nemours and Company.

TMPrincep is a trademark of Ciba-Geigy Corporation.

TMPursuit and Scepter are trademarks of American Cyanamid Corporation.

Read each of these sections of this label for essential product performance information.

USE THESE CONVENIENT SECTION MARKERS.

CROPS

CORN
(All Types)

When making applications on corn, do not make more than two applications per year or exceed a total of 6 quarts of Lasso per acre per year. Do not make more than one application or exceed 4 quarts of this product per acre per year on sweet corn.