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RESTRICTED USE PESTICIDE

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(GROUND AND SURFACE WATER CONCERNS)

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 CERTIFICATIONS.

THIS PRODUCT IS A RESTRICTED USE HERBICIDE DUE TO GROUND AND SURFACE WATER CONCERNS. USERS MUST READ AND FOLLOW ALL PRECAUTIONARY STATEMENTS AND INSTRUCTIONS FOR USE IN ORDER TO MINIMIZE POTENTIAL FOR ATRAZINE TO REACH GROUND AND SURFACE WATER.

FARMLAND Liquid Atrazine 4L



Herbicide - for season-long weed control in corn, sorghum, and certain other crops.

CAUTION

For Professional or Agricultural Use Only

KEEP OUT OF REACH OF CHILDREN

Shake well before using.

Directions for use See inside of hooklet for complete directions for use and additional precautionary statements.

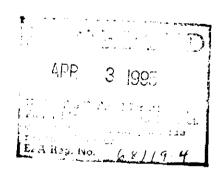
Net Contents: 2.5 Gallons

U. S. Standard Measure
Use entire contents at one time.

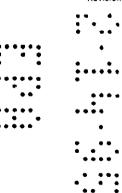
ACTIVE INGREDIENTS:
Atrazine: 2-chloro-4-ethylamino-6-isopropylamino-s-triazine: .40.8%
Related compounds: .2.2%
INERT INGREDIENTS: .57.0%
TOTAL: .100%

Liquid Atrazine 4L contains 4 lbs, active ingredients per gallon.

Manufactured by Farmland Industries, Inc. General Office Kansas City, MO 64116



Revision Date 1/95





PRECAUTIONAR' TATEMENTS

Hazards to Humans and Millestic Animals

Caution: Keep out of reach of children

Harmful if swallowed. Do not get in eyes. Avoid contact with skin, inhalation of vapors or spray mist and contamination of food and feed.

Personal Protective Equipment (PPE):

Handlers who may be exposed to the dilute through application or other tasks must wear:

- A. Long sleeved shirt and long pants
- B. Waterproof gloves
- C. Chemical-resistant footwear plus socks

Handlers who may be exposed to the concentrate through mixing, loading, application or other tasks must wear:

- A. Long sleeved shirt and long pants
- B. Waterproof gloves
- C. Chemical-resistant footwear plus socks
- D. Protective evewear
- E. Chemical-resistant apron when mixing or loading

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 Control 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

Users 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.

Statement of Practical Treatment

First Aid Procedures: if poisoning is submitted, do not wait for symptoms to develop. Immediately begin the recommended procedures below. Contact a physician, the nearest hospital or the nearest Poison Control Center. Tell the person contacted the type and amount of exposure, describe the symptoms and follow the advice given.

Note to Physician: There is no specific antidote for atrazine. If this product is ingested, induce emesis or lavage stomach. The use of an aqueous storry of activated charcoal may be considered.

If Swallowed: Call a physician or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching the back of throat with finger, or if available, by administering Syrup of Ipecac. Do not induce vomiting or give anything by mouth to an unconscious person.

On Skin: Wipe away excess material from the skin. Wash with plenty of soap and water. Bo not attempt to neutralize with chemical agents. Get might all tention.

In Eyes: Immediately flush the eyes with large amounts of running water for a minimum of 15 minutes. Hold the eyelids apart during the flushing to ensure rinsing of the eyes and tids with water. Do not attempt to neutralize with chemical agents. Obtain medical attention if irritation occurs.

If Inhaled: Remove vistin. to uncontaminated atmosphere. If not breathing, give entifical respiration, preferably mouth-to-mouth. Get medical attention.

Environmental Hazzrds

Groundwater Protection: Atrazine can traval (seep or leach) through soil and can enter groundwater which may be used as drinking water. Atrazine has been found in groundwater. Users are advised not to apply Atrazine to sand and loamy sand soils where the viater (abl., (groundwater)), close to the surface and where these soils are very permeable, i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater. Groundwater contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable maluring.

This product may not xed/loaded, or used within 50 fact of all wells inc sink holes.

Operations that involve mixing, loading, rinsing or washing of this product in equipment or containers with 50 feet of any well are prohibited unless cond withstand the weight of the heaviest load that may be positioned on or movidesigned and maintained to contain any product spill or equipment leaks, or rain water that may fell on the pad. Surface water shall not be allowed to a that the pad must be self-contained. The pad shall be sloped to facilitate m sufficient capacity to contain a minimum of 100% of the capacity of the larg equipment on the pad. A pad that is covered by a roof of sufficient size to with the pad, shall have a minimum containment capacity of 100% of the iar equipment on the pad. Containment capacities as described above shall be size.

States may have in effect additional requirements regarding wellhead setb

This product may not be mixed or loaded withing 50 feet of intermittent stre reservoirs. This product may not be applied serially or by ground withing 6 runoff enters perennial or intermittent streams and rivers or within 200 ft. at reservoirs. If this product is applied to highly erodible land, the 66 foot buff planted to crop or seeded with gress or other suitable crop.

Do not apply this product through any type of irrigation system.

Fish and Wildlife Hazards:

This pesticide is toxic to aquatic invertebrates. For terrestrial uses, do not water is present, or to intertidal areas below the mean high water mark. Diffeom treated areas. Runoff and drift from treated areas may be hazardous not contaminate water when disposing of equipment wash waters.

Directions For Use

It is a violation of FEDERAL LAW to use this product in a manner inconsiste important: Read the entire Directions for Use and the Conditions of Sale at are not acceptable, return the unopened product container at once. Do not apply this product in a way that will contact workers or other perso protected handlers may be in the area during applications. For any require the agency responsible for pesticide regulation.

AGRICULTURAL USE REQU

Use this product only in accordance with its labeling and with the Work standard contains requirements for the protection of agricultural works greenhouses, and handlers of agricultural pesticides. It contains requirements on this label about personal protective equipment (PPE) and in this box only apply to uses of this product that are covered by the Wo Do not enter or allow worker entry into treated area of using the restrict Exception: If the product is soil-injected or soil-incorporated, the Work circumstances, allows workers to enter the treated area if there will be treated.

PPE required for early entry to treated areas that is permitted under the involves contact with anything that has been treated, such as plants, s

- a. Coveralls
- b. Waterproof gloves
- c. Chemical resistant footwear plus socks

Storage and Disposal

Storage

Keep This Material Out of the Reach of Children

Store only in the original country with cap securely tightened.

Containers must be stored in a cool, dry, well-ventilated area. Store away from food, feeds and fertilizers. Do not contaminate water, food, feed by storage or disposal.

Ground water contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material.

Spill or Leak Procedures: In the event of a spill or leak, make sure all personnel involved in spill cleanup follow good industrial hygiene practices. Small spills can be handled routinely. Cover the spill with an absorbent material such as vermiculite or sawdust to prevent dust. Sweep up the material and place in an appropriate chemical waste container. Seal container and dispose of according to "Pasticide" disposal instructions below. Wash the spill area with a saturated solution of sodium carbonate and strong detergent. Flush the spill area with water to remove any residue. Take special care to avoid contamination of equipment and facilities during cleanup producedures and disposal of wastes. In the event of a major spill, fire or other emergency, call 1-800-888-8372 day or night.

Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or in ineration, or, if allowed by state authorities, by burning. If burned, stay out of smoke.

Pesticide: Do not contaminate water, food, or feed by storage or disposal, or cleaning of equipment. Open dumping is prohibited. Wastes resulting from the use of this product are acutely toxic. Improper disposal of unused pesticide, spray mixture, or rinsate is a violation of federal law. Pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to federal, state or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

Conditions of Sale and Warranty

Conditions of Sale: This product is sold subject to and buyer and users are deemed to have accepted the terms contained in the CONDITIONS OF SALE AND WARRANTY, DIRECTIONS FOR USE AND PRECAUTIONARY STATEMENTS, which may be varied only by agreement in writing by a duly authorized representative of FARMLAND INDUSTRIES, INC. Inherent Risks. The directions for use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequence—nay result because of such factors as presence of other materials or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of FARMLAND INDUSTRIES, INC., or the seller. All such risks shall be assumed by the buyer.

Warranty Limitations: FARMLAND INDUSTRIES, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the DIRECTIONS FOR USE, subject to the inherent risks referred to above. FARMLAND INDUSTRIES, INC., MAKES NO OTHER EXPRESSED OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESSED OR IMPLIED WARRANTY.

Limitation of Liability: In no case shall FARMLAND INDUSTRIES, INC., or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. No claim of any kind shall be greater in amount than the purchase price of the product in respect of which such damages are claimed.

Do not reuse empty container. Apply this product only as specified on this label.

General Information

Velvetleaf**

Yellow Foxtail***

LIQUID ATRAZINE 4L herbicide will control many annual broadleaf and grass weeds in corn, sorghum, sugarcane and certain other crops specified anithis label.

Broadleaf and Grass Weeds Controlled with Liquid Atrazine 4L Alone - Corn. Grain Sorghum and other crops specified on this label.* 1 1

Preplant Surface Applied, Proplant Incorporate Low Preemergence (or Postemergence at 4 pts /A with Oil)

Broadleaf and Grass Weeds Controlled:

Barnyardgrass (watergrass)*** Annual Morningglory Green Foxtail*** Giant Foxtail**

Lambsquartel'# " " Kochia , Nightshade Mustards Purslane → ·Ragweed

Wild Dats

Cocklebur** Groundcherry Large (hairy) Crabgrass**

Pigweed Sicklepod**

Witchgrass (Panicum Capillare)***

Postemergence with

ifiable Oil or Oil Concentrate in Water (at 2.4 pts. / A)

Cocklebur

Mustards

Smartweed

Broadleaf Weeds Com-

Annual Morningglory Lambsquarters Ragweed

Valvetiesf**

Jimson Weed Pigweed

Wild Buckwheat

*Where there are state/local requirements regarding atrazine use (including lower maximum rates and/or higher satbacks) which are different from label, the more restrictive/protective requirements apply. Certain states may have established rate limitations within specific geographical areas.

Consult your state lead pesticide control agency for additional information. It is a violation of this label to deviate from state use regulations.

**Partial control only

***Partial control only on medium- and fine-textured soils.

Attrazine may be applied before or after weeds emerge. The continuous use of this product and other triazines may cause the development of biotypes of grasses and broadleaf weeds that cannot be effectively controlled by this and related herbicides. Where this is known or suspected, and weeds controlled by this product are expected to be present along with resistant biotypes, LIQUID ATRAZINE 4L should be either tank mixed with or used in sequence with a herbicide approved for use with Atrazine which is not in the triazine class of chemicals. If only resistant biotypes are expected to be present use a registered non-triazine herbicide. Read and follow all directions for use and precautions on the labels of products to be tank mixed with Atrazine. Consult your State Extension Service for specific recommendations for your area.

in each case where a range of rates is given, the lower rate should be used on coarse-textured soils and soils low in organic matter, and the higher rate should be used on fine-textured soils and soils high in organic matter. Since Atrazine acts mainly through root absorption, its effectiveness depends on rainfell or irrigation to move it into the root zone. Should weeds develop, a shallow cultivation or rotary beeing will generally result in better weed control.

This product is nonflammable, noncorrosive to equipment and metal surfaces, and has low electrical conductivity.

Do not apply this product through any type of irrigation system.

Care should be taken to avoid using Atrazine where adjacent desirable trees, shrubs or plants may be injured. Avoid using near adjacent desirable plants or in greenhouses, or injury may occur. NOTE: FARMLAND INDUSTRIES, INC., does not recommend the use of LIQUID ATRAZINE 4L in combination with other herbicides or oils, except as specifically described on this label.

APPLICATION PROCEDURES

Ground Application: Use conventional ground sprayers equipped with nozzles that provide accurate and uniform application. For the most uniform distribution of broadcast applications, use 80 degrees flat fan-type nozzles. For band applications, use flat fan even-spray nozzles. Be certain that nozzles are uniformly spaced and are of the same size and type. Calibrate sprayer before use and recalibrate at the start of each season and when changing carriers. Screens and strainers should be no finer than 50 mesh between the pump and boom. Screens on the sur tion side of the pump should be 16 mesh or coarser. Do not place a screen in the recirculation line.

Use a pump with capacity to: (1) provide sufficient hydraulic agitation during mixing and application to keep the material in suspension (2) maintain 30-10 psi operating pressure, and (3) provide a minimum of 20% by-pass at all times. (At minimum, 10 gallons / minute per 100 collect tanks size). Unless otherwise specified, use a minimum of \$10 gallons of water per acre For band applications unt to be applied per acre as follows: • • •

Band width in inches 🕡 👉 🧸 ം . proadcast Treatment 🗷 Amount needed for Band Tuestರ್ಣನ್ Row width in inches

Aerial Application: For proplant and pre-emergence broadcast treatments, apply at a 1:1 ratio LQUID ATRAZINE 4L to water (example: recommendation calls for I quart of product and is mixed with 1 quart of water) to be applied per acre. For posteniergence treatments on corn and sorghum, apply the recommended rate of LIQUID ATRAZINE 4L plus oil in a minimum of 2 gallons of water per acre.

Avoid applications under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur. The above water volumes are the minimum to be applied per acre.

LIQUID ATRAZINE 4L in Water Applications: LIQUID ATRAZINE 4L, a liquefied formulation, should be mixed with water and applied as a spray. Pour LIQUID ATRAZINE 4L into the tank during or after filling. Hydraulic (jet) or mechanical agitation is

The recommended during must ad application to keep the material in suspension. All return lines that the most discharge below liquid level and agitation should not be so violent as to cause air bubbles to form in the liquid. Wash sprayer thoroughly after use.

LIQUID ATRAZINE 4L in Liquid Fertilizer Application: Nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier for pre-emergence, preplant incorporated, or preplant surface ground application on corn and sorghum. Mixing should be accomplished as described under "Water Applications". Do not apply in nitrogen solution to complete liquid fertilizer after corn or sorghum emerges or crop injury may occur. Check the compatibility of this product with liquid fertilizer and/or nitrogen solution, as shown below, before use.

Compatibility Test: Always check compatibility of liquid fertilizers with herbicide(s) each time before use. Be especially careful when using complete suspension or fluid fertilizers as serious compatibility problems are more likely to occur. Commercial application equipment may improve compatibility in some instances. The following test assumes a spray volume of 25 gal. / A. For other spray volumes, make appropriate changes in the ingredients.

Check compatibility using this procedure:

- 1. Add 1 pt. of fertilizer to each of two (2) 1-qt. jars with tight lids.
- 2. To one of the jars, add 1/4 tsp. or 1.2 milliliters of a compatibility agent such as Compliment* (1/4 tsp. in 1 pt. is equivalent to 2 pt. per 100 gals. of spray). Shake or stir gently to mix.
- 3. To both jars add the appropriate amount of herbicide (see below). If more than one herbicide is used, add them separately (dry herbicides first, flowables next and emulsifiable concentrates last). After each addition, shake or stir gently to thoroughly mix. The appropriate amount of herbicide for this test is:

<u>Ory harbicides</u> - For each 1 lb. per acre rate, add 1.5 level tsp. to each jar. <u>Liquid herbicides</u> - For each 1 pt. per acre rate, add 0.5 tsp. (2.5 milliliters) to each jar.

4. After adding all ingredients, put lids on tightly and invert each jar 10 times to mix. Let the mixtures stand 15 minutes and then look for separation, large flakes, precipitates, gels, heavy oil film on the jar, or other signs of incompatibility. Determine if the compatibility agent is needed in the spray mixture by comparing the two jars. If either mixture separates but can be remixed readily, the mixture can be sprayed as long as good equation is used if the mixtures are incompatible, try adding half the competibility agent to the fertilizer and half to the herbicide, before combining the herbicide and fertilizer. If incompatibility is still observed, do not use mixture.

LIQUID ATRAZINE 4L Applications in Water Plus Emulsifiable Oil or Oil Concentrate; The addition of emulsifiable oil (petroleum-derived, petroleum-derived oil concentrate, or single or mixed crop derived oil concentrate) to post under certain conditions, the use of either type of oil may seriously damage corn or sorghum. To minimize the possibility of damage, follow the directions, procedures and precaution given below.

Use one of the following properly emulsified:

A suitable oil concentrate containing at least 1%, but not more than 20%, suitable emulsifier or surfactant blend. A petroleum derived oil containing at least 1% suitable emulsifier.

Note: In the event of a compatibility problem when mixing oil with this product and water, a compatibility agent such as Compliment^a should be used. Any of the above oils contaminated with water or other materials can cause compatibility problems and/or crop injury.

Mixing Procedures - all uses:

- (1) Thoroughly clean sprayer prior to use. Do not use sprayer contaminated with 2,4-D or other materials as crop damage or surayer clopping may result.
- (2) Fill spray tank one-fourth full with clean water, nitrogen solution or complete liquid fertilizer.
- (3) With the agitation system is operation, such that there is a rippling or rolling action on the liquid surface, add the Atrazine. Continue, filling tenk with water, nitrogen solution, or complete liquid fertilizer, until 90% full. Increase agitation if necessary to maintain surface action.
- (4) Add emulsifiable oit, oil concentrate, or tank mi: herbicides last, after this product is thoroughly suspended. Finish filling tank.
- (5) Empty the tank as completely as poss beet for refilling or prevent a buildup of oil or emulsifiable concentrate residue in the tank. Keep the agitation system ທຸກຄ້ອງສາຄາດ to avoid separation of materials in any mixture remaining in the tank.
- (6) If an oil or emulsifiable concentrate film starts to build up in the tank, drain the tank and clean out with a strong detergent solution or sollyeft.
- (7) Clean the sprayer thoroughly immediately attenusing by flushing the system with water containing a detergent.

Do not apply this product through any type of irrigation system.

Rotational Crop Suggestions - all uses:

(1) Land treated with Liquid Atrazine 4L should not be planted to any crop except corn or sorghum until the following year or injury may occur.

- (3) In the high plains or intermountain areas of the west where rainfall is sperse and erratic or where irrigation is required, use Liquid Atrazine 4L only when corn or sorghum is to follow corn or sorghum, or a crop of untreated corn or sorghum, is to precede other rotational crops.
- (4) In western Minnesota and eastern parts of the Dakotas, Nebraska and Kansas, corn or sorghum treated with Liquid Atrazine 4L should not be followed with soybeans if the broadcast rate applied was more than 4 pints per acre (or comparable rate in a band) or soybean injury may occur.
- (5) Injury may occur in soybeans planted the year following a Liquid Atrazine 4L application on soils having a calcareous surface layer.
- (6) Do not plant sugarbeets, tobacco, vegetables (including dry beans), spring-seeded small grains, or small-seeded legumes and grasses the year following Liquid Atrazine 4L application or injury may occur.

DIRECTIONS FOR USE

CORN

LIQUID ATRAZINE 4L ALONE. Apply either before planting, at planting or after planting as indicated below. For soil applications prior to crop emergence (i.e., early preplant, preplant incorporated, preplant surface, at planting or preemergencee) see table 1.

Preplant Surface-Applied (Broadleaf and grass control): Use on medium- and fine-textured soil with minimum-tillage or no tillage systems only in CO, IL, IN, IA, KS, KY, MN, MO, MT, NE, ND, SD, WI and WY. Apply the recommended rate of Liquid Atrazine 4L shown in Table 1 up to 45 days prior to planting. On coarse textured soils, do not apply more than two weeks prior to planting. If an unsatisfactory length of weed control results from adverse environmental conditions following early treatment, a follow-up application of an appropriately labeled herbicide may be used. If the follow-up treatment includes atrazine, do not exceed the labeled rate for corn indicated in Table 1.

If weeds are present at the time of treatment, apply in tank mix combination with a contact herbicide (For example Gramoxone Extra or Roundup). Observe directions for use, precautions and restrictions on the label of the contact herbicide.

Note: To the extent possible, do not move treated soil out of the row or move untreated soil to the surface during planting, or weed control will be diminished.

<u>Preplant Incorporated (Broadleaf and Grass Control):</u> Broadcast in the spring after plowing at the rate indicated in Table 1. Application may be made before, during or after final seedbed preparation. If soil is tilled or worked after application, avoid deep incorporation of LIQUID ATRAZINE 4L. Best results have been obtained when LIQUID ATRAZINE 4L is applied within two weeks prior to planting.

<u>Preamergence or At-Planting (Broadleaf and Grass Control)</u>: Apply during or shortly efter planting prior to weed, emergence at the rate indicated in Table 1.

Postemergence (Broadleaf and Grass Control): Apply before weeds exceed 1.5 inches in height and before corn reaches 12 inches in height. For postemergence applications, if there has been no previous soil application to that crop, the maximum rate is 2 pounds a.i./A. If there has been a previous soil application to that crop, do not exceed total of 2.5 pounds a.i./A per calendar year. Apply at the rate indicated in Table 1.

TABLE 1 - For Control of Broadleaves and Grasses in Corn*

FOR ALL SOIL APPLICATIONS PRIOR TO CROP EMERGENCE		• •
On Highly Erodible Soils (as defined by SCS)	*****	• • • • • • • • • • • • • • • • • • • •
If conserve don tillage is practiced, resulting in at least 30% of the maximum of 2 pounds a.i./A (4 pts/A) as a broadcast spray.	e soil covered with pla	ent residues at planting, apply a
If less than 30% of the soil is covered by plant residue at planting applied.	g, a maxរិកើម្លាំ of 1,6 po	undร์ สมิธิส์(3.2 pts/A) may be
On Soils that are Not Highly Erodible		• • • •
Apply 4 pts/A as a broadcast spray.		
FOR POSTEMERGENCE APPLICATION		• • • •
If no atrazine was applied prior to corn emergence, apply a maxi	imum of 4 pts/A broad	cast.
If a postemergence treatment is required following an earlier he exceed 2.5 lbs. active ingredient (5 pts. of this product) per acre	rbicide application, th	

5

*For preplant or pre-ema مرات epplications (western Kansas, western Nebraska, eastern Colc eastern Wyoming, New Mexico, western Texas and the Panhandle of Oklahoma): on sends, loamy sand , sendy loams inild to strong ulkaline soils and all recently leveled soils, apply no more than 2.4 pints per acre for broadleaf weed control, either preplant surface, preplant surface incorporated, or preemergence. Many broadleaf weeds including pigweed, fambaquarters, nightshade, pursiane and kochia will be controlled. On other soil types in the areas above, make applications at the rate shown in Table 1 for broadleaf and grass control.

Where there are state/local requirements regarding atrazine use (including lower maximum rates end/or higher set-backs) which are different from the label, the more restrictive/protective requirements must be followed. Certain states may have established rate limitations within specific geographical areas. Consult your state lead posticide control agency for additional information. It is a violation of this label to deviate from state use regulations.

Postemergence Broadleaf Weed Control with LIQUID ATRAZINE 4L Plus Emulsifiable Qil or Dil Concentrate in Water: Broadcast 2.4 pints per acre for control of many broadleaf weeds including annual morning-glory, cocklebur, lambsquarters, mustard, pigweed, ragweed, smartweed and wild buckwheat. Application should be made before pigweed and lambsquarters reach 6 inches in height and before all other weeds reach 4 inches in height and before corn reaches 12 inches in height. Add emulsifiable oil at the rate of 1 gallon per acre for ground applications and one-half gallon per acre for serial applications. A cultivation may be necessary if all weeds are not controlled or if regrowth of wileds occur.

Postemergence Broadleaf and Grass Weed control with LIQUID ATRAZINE 4L Plus Emulsifiable Oil or Oil Concentrate in

Broadcast 4 pints per acre after weed emergence, but before weeds reach 1.5 inches in height and before corn reaches 12 inches in height.

Add the following volume of one of the type oils indicated for serial or ground application unless the oil label specifies otherwise.

Type Qil Oil Concentrate (Crop or Petroleum-derived)	Ground Application	Aerial Application 1/2-1 qt/A	
Petroleum-derived oil	1 gal /A	2 qts /A	

Note: Crop-derived or petroleum-derived oil concentrates should contain at least 1%, but no more than 20% suitable emulsifier or surfactant blend.

Petroleum-derived oil should contain at least 1% suitable emulsifier.

Precautions for Applications of LIQUID ATRAZINE 4L Plus Emulsifiable Oil in Water to Corn:

- (1) Do not use oils in sprays when treating inbred lines or any breeding stock as severe injury may occur.
- (2) Adding other insecticides, herbicides, liquid fertilizers or other materials is not recommended with Atrazine and emulsifiable oil in water because they may cause compatibility problems or crop injury.
- (3) Store and handle emulsifiable oil carefully. Oil conteminated with even a small amount of water may not emulsify properly when added to the tank,
- (4) Do not use oil in Atrazine sprays when crop is under stress from prolonged cold, wet weather, poor fertility, or other factors, or when crop is wet and succulent from recent rainfall, as crop injury may occur.
- (5) Do not exceed 2.5 lbs. active ingredient (or 5 pts. of this product) per acre per calendar year.
- (6) Postemargance application to corn must be made before corn exceeds 12 inches in height.

Tank-Mixtures with LIQUID ATRAZINE 4L on Corn:

This product may be tank mixed with these herbicides for control of certain broadleaf and grass weeds in corn:

Alachior Gramoxone Extra Princep Princep & Gramoxone Extra Alachior + Gramoxone Extra Alachlor + Roundup Dual + Roundup (glyphesate) > Dual (metolachlor) Yrincep + Roundup Ramerc & (proposchior) Dual + Gramoxone Extra **Ноцавир** Dual + Princep Sutan+ Dual + Princep + Gramoxbife Extra Dual + Princep + Rounduk

Use tank mix directions appearing on the labels of the above herbicides when tank mixing with this product. Observe all precautions and limitations on labeling of products used in a particular tank mix.

When the labels of the above herbicides refer to atrazine 80W, use equivalent rates of Liquid Atrazine 4L. One pound of 80W equals 1.6 pints of 4E

LIQUID ATRAZINE 4I Sramoxone Extra - For control of existing vegetation and residual planted directly into work crop, established sod or in previous crop residues: Broadcast and LIGUID ATRAZINE 4L and 1-2 pints Gramoxone Extra per acre in 20-60 gallons of water per acre. Add 8 ounces of nonionic surfacient per 100 gallons of dilute spray. Add LIQUID ATRAZINE 4L to spray tank first and thoroughly mix with water. Add the Paraguat and surfactant last. Refer to Pereguat Ct. label for further directions, limitations and cautions.

LIQUID ATRAZINE 4L Plus Alachior 4EC: Use a tank-mixture of LIQUID ATRAZINE 4L plus Alachior 4EC for the control of many annual broadleaf and grass weeds in corn (field and silage corn only) including annual morning-glory, barnyard grass, black nightshade, Brachiaria, buttonweed (velvetleaf), carpetweed, cocklebur, crabgrass, fall panicum, Florida pusley, giant foxtail, green foxtail, yellow foxtail, goosegrass, tambsquarters, pigweed, purslarie, mustard, common ragweed, smartweed and witchgrass.

Make applications at the rates indicated in Table 2. For preplant applications, apply within 7 days of planting and incorporate to a depth of 2-3 inches. For pre-emergence applications, apply to the soil surface after planting, but before the crop or weeds emerge. For postemergence treatments, make applications until weeds reach to two-leaf stage, and the corn is no more than 3 inches tall.

Table 2. Tank-Mixtures of Liquid Atrazine 4L plus Alachlor 4EC on Corn (Field and Silage only)

	Broadcast Rate Per Acre				
	Less than 3% organic matter		More than 3% organic matter		
Soil Texture	Liquid Atrazine 4l (pts:/A)	Alachior 4EC' (pts/A)	Liquid Atrezine 4I (pts:/A)	Alachior 4EC (pts/A)	
Light Sandy Soils	2_	1.5	2	1.5	
Silt Loam Soils	2-2.4	1.5-1.75	2-2.4	1.75-2	
Heavy Clay Soils	2.4-3.2	2-2.5	2.4-3.2	2-2.25	

NOTE: Apply in a minimum of 20 gallons of water per acre. Non-pressure fluid fertilizer may replace all or part of the water used as a carrier for application applied to the soil surface before crop emerges. Add the LIQUID ATRAZINE 4L to the spray tank first and thoroughly mix with water. Add the Alachior last.

At least 12 weeks must elapse following treatment with LIQUID ATRAZINE 4L Plus Alachlor 4EC before immature corn forage can be harvested or fed to cattle. Refer to the Alachlor 4EC label for further directions, limitations and cautions.

Princep 80W, Princep 4L or Princep Caliber®

In addition to the weeds listed under GENERAL DIRECTIONS for CORN, this combination also controls crabgrass, fall panicum, and carpetweed.

Broadcast tank mix before planting, at planting or after planting, but before crop and weeds emerge, at rates in table 2A. Use the 1:1 ratio for control of most weeds. Use the 1:2 ratio for expected heavy infestations of crabgfass and fall panicum. Cultivate shallowly if weeds develop.

Preplant Surface - Applied: Use on medium and fine textured soils with minimum-tillage or no-tillage systems only in CO. IA, IL, IN, KS, KY, MN, MO, MT, ND, NE, SD, WI and WY, Apply the recommended rate of Liquid Atrazine 4L and Princep. shown in Table 2A up to 45 days prior to planting. Refer to the Liquid Atrazine 4L alone section for information if weeds should develop following early treatment. On coarse-textured soils, do not apply more than 2 weeks prior to planting. Refer to the Liquid Atrazine 4L alone, preplant surface applied section under CORN section for additional details. If weeds are present at the time of treatment, apply in a tank mix combination with a contact herbicide such as a paraquat product or Roundup. Observe directions for use, precautions, and restrictions on the label of the contact herbicide.

Note: To the extent possible, do not move treated soil out of the row or move untreated soil to the warface during planting, or weed control will be diminished.

Preplant Incorporated: Apply to the soil and incorporate in the spring before, euring, or after final seedbed preparation. Avoid deep incorporation. For best results, apply within 2 weeks prior to planting.

Presmergence: Apply during or shortly after planting, but before crop and weeds emerge. Refer to Corn Section of this label and to Princep 80W, Princep Caliber 90, or Princep 4L labels for further directions, limitations, and precautions.

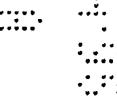


Table 2A TANK MIXTURE HPRINCEP FOR WEED CONTROL IN CORN

	Broadcaste Rate Per Acre			
	1:1 A	atio*	1:2 Ra	tio**
Soil Texture	Liquid Atrazine 4L	Princep 80W'	Liquid Atrazina 4L	Princep 80W'
Sand, loamy sand, sandy loam	2 pts.	1.25 lbs.	1.32 pts.	1.67 lbs.
Loam, silt loam, silt, clay loam, sandy clay	2.4 pts. •	[†] pts.	1.6 pts.	2 lbs.
loam, silty clay loam, sandy clay, or silty clay with low organic matter				
Loam, silt loam, silt, clay loam, sandy clay loam, silty clay loam, sandy clay, or silty clay with medium to high organic matter, and clay (including dark prairie soils of the Corn Belt)	3 pts.	1.8 lbs.	1.92 lbs.	2.4 lbs.

^{*}For control of most weeds

Princep 80W. Princep 4L or Princep Caliber 90 plus Roundup: Use as tank mixture for preemergence and postemergence control of certain broadlesf and grass weeds where corn will be planted directly into a cover crop, established sod, or in previous crop residues. Refer to Roundup label for all directions, weeds controlled, precautions and limitations

Princep 80W, Princep 4L or Princep Caliber 90 plus Gramoxone Extra: Use as tank mixture with Princep and Gramoxone Extra to kill existing vegetation and for residual weed control where corn will be planted directly into a cover crop, established sod, or previous crop residues. Add this product and Princep to water in spray tank, agitating until thoroughly mixed. Then add Gramoxone Extra or Paraquet CL and a nonionic surfactant, such as Penetrate II. Continue agitation during application. Broadcast 2-4 pts. of this product plus 1.25-2.5 lbs. of Princep 80W [or 2-4 pts. of Princep 4L, or 1.1-2.2 lbs. of Princep Caliber 90] plus the recommended labeled rate of Gramoxone Extra for this tank mixture, in 20-60 gallons of water per sprayed acre. Apply before, during or after planting, but before the corn emerges. Add 0.5 pts. of a nonionic surfactant such as Penetrate II per 100 gallons of spray mixture. Use the higher rate of Gramoxone Extra specified on the label if existing vegetation is 4-6 inches tall. This mixture will not control weeds taller than 6 inches.

Refer to further limitations and precautions on the labels for this product, Princep and Gramoxone Extra or Paraquat CL.

Precautions for all Applications to Corn:

herbicide.

- (1) The maximum application rate for corn is 2.5 lbs, active ingredient per acre per calendar year. Therefore, do not apply more than 5 pints of LIQUID ATRAZINE 4L on corn in any one year.
- (2) Following Harvest of a treated crop, plow (moldboard or disk-plow) and thoroughly till the soil in the fall or spring to minimize possible injury to rotational spring-seeded crops, regardless of the rate used.
- (3) For best control of velvetleaf and cocklebur, the application rate cannot be less than 2 pounds per acre of active ingredient, either alone or in tank mix combinations.
- (4) Do not graze treated area of feed-treated forage to livestock for 21 days following application of this product.

For postemergence applications plus emulsifiable oil, see additional precautions under that section of the label.

SDRGHUM AND SORGHUM-SUDAN HYBRIDS (GRAIN AND FORAGE TYPES): LIQUID ATRAZINE 4L may be applied eith an before planting or after planting as indicated below. For soil applications prior to crop emergence (i.e., early preplant, preplant incorporated, preplant surface, at planting or pre-emergence) see table 1.

Preplant Incorporated (Broadlanf and Gross Control): Broadcast in the spring after plowing at the rate indicated in Table 3.

Application may be made outure, during grafter final seedbed preparation. If soil is tilled or worked after application, avoid deep incorporation of LIQUID ATRAZINE-IL. For best results, apply within two weeks prior to planting.

Preplant Surface Applied Schedleaf and Grave Ochtrol): Use on medium and fine textured soils with minimum tillage systems only in CO, IA, IL_IN, KS, KY, MN, MO, MT, ND, NE, SD, WI and WY. Apply the recommended rate of LtQUID ATRAZINE 4L shown in Table 3 up to 45 days prior to planting. If an unsatisfactory length of weed control results from adverse environmental conditions following early treatment, a follow-up application of appropriately labeled herbicid, may be used. If the follow-up is earment includes atrazine, do not exceed the labeled rate for corn indicated in Table 1. Under dry conditions, irrigations after application is recommended to move Liquid Atrazine 4L into the soil.

If weeds are present at this of Greatment, apply in a tank mix combination with a contact herbicide such as Gramoxone

Extra or Paraguat CL, or Roundup. Observe directions for use, precautions and restrictions on the label of the contact

Note: To the extent beafile, do not move treated soil out of the row or move untreated soil to all surface during planting or weed control will be diminished.

Pregmergence or At-Planting (Broadleaf and Greek Control): Apply during or shortly after planting, but prior to weed or crops emergence at the rate indicated in Table 3.

Postemergence (Broadleaf and Grass Control): Apply at rate shown in Table 3 before weeds exceed 1.5 inches in height, and before sorghum is taller than 12 inches.

Table 3 - Broadleaf and Grass Weed Control in Sorohum

FOR ALL SOIL APPLICATIONS PRIOR TO CROP EMERGENCE

On Highly Erodible Soils (as defined by SCS)

If conservation tillage is practiced, leaving at least 30% of the soil covered with plant residues at planting, apply a maximum 2 pounds a.i./A (4 pts./A) as a broadcast soray.

If the soil coverage with plant residue is less than 30% at planting, a maximum of 1.5 counds at/A (0.2 pts/A) may be applied.

On Soils Not Highly Erodible
Apply 4 pts:/A as a broadcast spray

FOR POSTEMERGENCE APPLICATION

If no strazing was applied prior to sor in am emergence, apply a maximum of 1 pts/A broadcast. If a postemergence treatment is required following an earlier harbicide application, the total atrazine applied may not exceed 2.5 lbs. active ingredient (5 pts. or this product) pur acre per calendar year.

I'' LIQUID ATRAZINE 4L should not be applied process surface or preplant incorporated to sorghum grown in AL, AR, FL, GA, LA, MS, NC, NM, OK, SD, TN, or TX. Do not apply pre-emergence to sorghum grown in NM, OK, or TX, except in northeast OK and the TX Gulf I cast and Blacklan is areas.

** Where there are state/local requirements regarding streams use (including lower maximum rates and/or higher satbacks) which are different from the label, the more restrictive/protective requirements apply. Certain states may have established rate limitations within specific geographical areas. Consult your state lead pasticide control agency for additional** is metion. It is a violation of this label to deviate from state use regulations.

In case of planting failura, sorghum or corn may be replanted into soil previously treated with LIQUID_ATRAZINE 4L. Do not make a second broadcast application or injury may occur. If LIQUID_ATRAZINE 4L is applied in a band and sorghum is replanted in the untreated low-middles, LIQUID_ATRAZINE 4L can be applied in a band to the second planting provided the maximum application in rate of 2.5 a.i./A per calendar year is not exceeded.

Pieer 3, gence Broadleaf Weed Control in Furrow Irrigated, Bedded Sorghum (AZ and CA only). For preemergence control of many proadleaf weeds, by baccast 1.5-2 pts /A after bed preparation, during or after planting, but before sorghum and weeds engage and before the first furrow irrigation. Follow with several regular irrigations, making sure to thoroughly wet all soil.

Prepartions for Preemergence Application to Furrow Irrigated Bedded Sarghum in AZ and CA: To evoid possible sorghum injury, point use on sand or loamy sand soil or on sorghum planted in furrows. Application of sorghum growing on alkalisals or where cuts, fills, or exposed have exposed calcareous or alkalisubsoils may cause crop injury. In case of crop failure, do not replant sorghum for 8 months following application. Cornural Expanted immediately.

Postem rigence Broadleaf Weed control with LIQUID ATRAZINE 4L Plus Emploided Dil or Dil Concentrate in Water: Broadcast 2.4 pts./A for control of broadleaf weeds including annual morning-glow, cocklebur, lambsquarters, musterd, pigweed, ragweed, smertweed and wild buckwheat. Application should be made before pigwesd and lar-bsquarters reach 6 inches in height, "Int 10, western Kd, NM, OK, TX, and other desert regions of AZ and CA, apply when sorghum is 6-12 inches in height, "Int 10, western Kd, NM, OK, TX, and other areas, apply after sorghum reacher 3-leaf stage and before it exceeds 12 inches in height. Add emploifiable oil at the rate of 1 gallon of amulsiciable oil/A for ground applications and 0.5 gall/A for aerial applications. Add 1 gWA of oil concentrate for ground application. A cultivation may be necessary if all a seeds are not controlled or if regrowth of weeds occur.

For a more complete list of the weeds controlled, see "Broadleaf and Grass Weeds Controlled with Atjazine Alone" Under "GENERAL INFORMATION"

Precautions for Applications of LPIUID ATRAZINE 4L Plus Emulsifiable Oil in Water to Sorghum: See precautions under

^{**}For control of expected heavy infestations of crabgrass and fall panicum.

^{*} When using Princep Caliber 90 or Princep 4L, use equivalent rates. One (1) lb. of Princep 80 W = 0.9 lb. of Princep Caliber or 1.6 pts. of Princep 4L.

Atrazine Plus Emulsifiable) Dil Concentrate in

all Concentrate in Water Applications to Corn*.

Postemergenice Broadleaf Weed Control with LIQUID ATRAZINE 4L Plus Surfactant (CO, western KS, NM, OK, TX, and desert regions of AZ and CA only): Broadcast 2.4 pts./A LIQUID ATRAZINE 4L plus .75 to 1.5 pts. of surfactant after sorghum reaches 6 inches in height, but before weeds reach 1.5 inches in height. Apply only on sandy loam and finer textured soils.

Precautions for All Applications to Sorghum

- (1) Heavy rains immediately following application tend to result in excessive concentrations of herbicide in seed furrow, resulting in possible crop injury. Applications to furrow-planted sorghum should not be made until furrows are leveled (plow-in). Deep planter marks or seed furrows should also be leveled before application.
- (2) Application made to sorghum growing under stress caused by minor element deficiency or to sorghum growing on highly calcareous soils may result in crop injury.
- (3) Following harvest of a treated crop, plow (moldboard or disk-plow) and thoroughly till the soil in the fall or spring to minimize possible injury to rotational spring-seeded crops, regardless of rate used.
- (4) Crop injury may occur when this herbicide is either applied preplant incorporated or pre-emergence in conjunction with an at-planting systemic insecticide.
- (5) The maximum application rate for sorghum is 2.5 'os. active ingredient (5 pts. of this product) per acre per calendar year.
- (6) For all soil applications prior to crop emergence (except for preemergence use on hedded sorghum in AZ and CA), do not apply to coarse-textured soils, i.e., sand, sandy loam, or to medium- and fine-textured soils having less than 1% organic matter, or injury may occur.
- (7) For posternergence applications, do not apply to sand or loamy sand, or injury may occur.

Note: Do not graze or feed forage from treated areas for 21 days following application. Rotational Grop Suggestions: See "rotational crop" recommendation under corn.

Tank Mixtures For Grain Sorghum

<u>Dual 8E.</u> Use as a tank mixture with Dual 8E for control of those weeds listed on the Dual 8E label, as well as on this label. Use this tank mixture only on sorghum seed treated with Concep*. Refer to the Dual 8E label for all directions, precautions and limitations.

WINTER WEED CONTROL IN TEXAS

For postemergence control of winter weed only, such as henbit, seedling dock, and annual thistle on fall bedded land in the Gulf Coast and Blacklands of Texas. Apply 0.8-1 qt. / A postemergence to the weeds in November or December to land that will be planted to corn, grain sorghum or forage sorghum the following spring. For best results, add a suitable surfactant, such as Penetrate II, at the rate of 0.5% of the spray volume, or an emulsifiable oil at the rate of 1.0% of the spray volume.

Normal weed control programs may be used in the following corn, grain sorghum, or forage sorghum crop.

NOTE: Do not plant any crops except corn, grain sorghum or forage sorghum the spring following this treatment, or illegal residues may result.

CHEMICAL FALLOW - LIQUID ATRAZINE 4L

Wheat-Fallow-Sorghum: To control annual broadleaf and grass weeds following heat harvest and in the following sorghum crop, when grown under minimum tillage, broadcast 6 pts. / A to wheat stubble immediately following wheat harvest. If tweeds are present at application, remove them with a sweep plow or other suitable implement after application, or used on approved contact herbicide before or after application of EIQUID ATRAZINE 4L. Plant sorghum into wheat stubble the following sprifig with minimum soil disturbance. Use a surface planter or a planter leaving a shallow furrow. If weeds are present at corghum planting, remove them with a sweep plow or other suitable implement before planting.

For the list of weeds controlled, see the list under "GENERAL INFORMATION"

Precautions for Weed Control in Chemica (Fallow). (1) Use only on sitt loam or finer textured soil, or crop injury may result. (2) Wheat-Fallow-Sorghest ecopying sequence must be followed. (3) Do not apply following sorghum barvest.

NOTE: Do not graze or feed forage from the treated are to livestock. To avoid illegal residues and crop injury, do not plant any crop other than those on this label within 18 months following treatment.

Wheat-Fallow-Corn (CO.KS. NO.NE. SD. AND WY): This product controls cheat grass (downy brome, chess), kochia, mustards, pigweed, Russian thistie, wild lettuce, wild sunflower, and volunteer wheat during the period after wheat harvest. Weed control may extend into the following corn crop grown under minimum tillage.
On soils in ND and SD with a ph greater than 7.5, do not exceed 1.5 lb. a.i. / A Liquid Atrazine 4L. For soils with a ph less than 7.5 in ND and SD, apply 1-2 lb. a.i. / A. Use the higher rate on finer textured soils and where heavy weed infestations

are expected. Use ver rate on coarse textured soils and where light weed infestation axpected. In the event grasses are present made following spring, use a grass herbicide registered for use on corn.

Follow directions for use, notes and precautions in the Wheat-Fallow-Sorghum section above, substituting corn where references to sorghum are made.

Wheat-Fallow-Wheat (CO, KS, NO, NE, SO and WY): For preemergence control of cheatgrass (downy brome, chess), common lambaquarters, field pennycress, kochia, musterd, Russian thistle, wild lettuce, and suppression of volunteer wheat during fallow period of a wheat-fallow-wheat rotation, broadcast 1-2 pts. / A on all soils except those listed under the cautions. For control of pigweed and wild sunflower, use only the higher rate. Apply to stubble ground. Treat only once during the same fallow period.

TANK MIXTURES FOR CHEMICAL FALLOW

Wheat-Fallow-Sorghum or Wheat-Fallow-Corn (KS, NE)

Gramoxone Extra; If weeds are present at application, a tank mix with Gramoxone Extra may be used. Broadcast 6 pints of Liquid Atrazine 4L plus a suitable amount of Gramoxone Extra in 20-60 gallons of water per acre by ground equipment. Add 0.5-1 pint of a nonionic surfactant, such as Penetrate II, per 100 gallons of sprey mixture. Add this product to the spray tank first and thoroughly mix with water. Then add Gramoxone Extra followed by surfactant. Use the higher rate of Gramoxone Extra specified on label if weeds are 4-6 inches tall. This mixture will not control weeds taller than 6 inches. Apply to stubble ground. Treat only once during the same fallow period. Refer to label for Gramoxone Extra for further directions, precautions and limitations.

Wheat-Fallow-Wheat (CO, KS, ND, NE, SD, and WY)

Gramoxone Extra: If weeds are present at application, a tank mix with Gramoxone Extra may be used. Broadcast 1-2 pints of Liquid Atrazine 4L plus a suitable amount of Gramoxone Extra in 20-60 gallons of water per acre by ground equipment. Add 0.5-1 pint of a nonionic surfactant, sich as Penetrate II. per 100 gallons of spray mixture. Add this product to the spray tank first and thoroughly mix with water. Then add Gramoxone Extra followed by surfactant. Use the higher rate of Gramoxone Extra specified on label if weeds are 4-6 inches tall. This mixture will not control weeds taller than 6 inches. Apply to stubble ground. Treat only once during the same fallow period. Refer to label for Gramoxone Extra for further directions, precautions and limitations.

If weeds are present at application of this product alone, use an approved contact herbicide either before or after treatment, or tillage after treatment.

Use tillage to control weeds which escape during fallow period. Till before planting. For this product applied alone or in tank mixture Gramoxone Extra, plant at least 2 inches deep and 12 months or more after applications.

<u>Precautions</u>: To avoid crop injury, (1) do not use on sand soil. (2) Do not treat eroded hillsides, caliche and rocky outcroppings, or exposed calcarerous subsoil. (3) Do not treat soils of the Rosebud and Canyon series in western Nebraska and adjoining counties in CD and WY. (4) Do not treat soils with calcareous surface layers. (5) Avoid spray overlap.

Note: Do not graze treated areas within 6 months after application.

Agrial Application: In order to assure that spray will be controllable within the target area when used according to label directions, make applications at a maximum height of 10 ft., using low drift nozzles at a maximum pressure of 40 psi., and restrict application to periods when wind speed does not exceed 10 mph. To assure that spray will not adversely affect adjacent sensitive nontarget plants, apply Liquid Atrazine 4L by aircraft at a minimum upwind distance of 400 ft. from sensitive plants.

CONSERVATION RESERVE PROGRAM (CRP) (NE, OK, OR AND TX)

For control or suppression of the following weeds: annual ragweeds, barnyardgrass, black nightshade, cheat, cocklebur, downy brome, fall penicum, field peninycress, giant foxtail, yellow foxtail, Japaness brome, Kentucky bluegrass, kechia, lambsquarters, little barley, marestail, pigweed, prickly lettuce, smooth grome; and sunflower, refer to directions, notes, and precautions below.

Pure stands of newly seeded big bluestem, switchgrass and eastern camagrass.

Use only on loam, silt loam, silty clay roam, clay loam, and silty clay soils with at least 1% organic maker

Establishment: Broadcast 2 qt. / A of Liquid Atrazine 4L, preplant incorporated or preemergence, at time of seeding and

prior to emergence of week. Appare a good firm seedbed. Plant 1/2 inch deep with a grassland. Apreferred method) or a conventional drill. If a conventional drill is used on prepared seedbeds, remove all tension from the disk openers. For best results, cultipack or roll after planting.

Renovation of existing stand of big bluestern and switchgrass planted on CRP acres.

Broadcast 1-2 qt. / A to extisting stands of big bluestem and switchgrass prior to the emergence of weeds. Use the low rate on soils containing from 1-2% organic matter. Use the high rate on soils with 2% or greater organic matter content.

Renovation of existing stands of the following perennial range grasses planted on CRP acres: Blue grams. Indiangrass, little bluestem, sand lovegrass, sidepats, grams and western wheatgrass. Broadcast 0.5 - 1 qt. /A in the spring prior to weed emergence, or in the fall before the ground freezes and prior to weed emergence after these species have been established for at least 1 growing season, for control or partial control of the weeds listed above. Use the low rate for weeds that are controlled or suppressed easily.

Aerial Application: Make applications at a maximum height of 10 ft. above vegetation. Use low drift nozzles at a maximum pressure of 40 psi. To control drift, restrict application to periods when wind speed does not exceed 10 mph. To assure that drift will not adversely affect adjacent sensitive nontarget plants, apply Liquid Atrazine 4t by aircraft at a minimum upwind distance of 400 ft. from sensitive plants. Use 3-5 gallons / Acre total water volume when a dense heavy ground cover is present.

Note: (1) Do not cut or feed grass hay to livestock. (2) Do not graze treated areas. (3) Do not use seeds for bird food. (4) Do not dump or spill product or dispose of product containers within the reach of livestock. (5) Follow all applicable restrictions of the Conservation Reserve Program.

<u>Precautions:</u> To avoid crop injury, make only one (1) application per year. Slight discoloration of desirable grasses may occur following treatment. Injury may be enhanced when used on neutral or alkaline soils.

SEVERE DROUGHT CONDITIONS

Do not graze forage or cut forage for hay from CRP acres if treated with atrazine.

Under severe drought conditions, the Conservation Reserve Program allows grazing and making of hay from CRP acres, as so specified by the local Agricultural Stabilization & Conservation Service (ASCS) office. This labul does not allow for grazing or making of hay from atrazine treated acres, under those or any other circumstance.

SUGARCANE

For control of many broadleaf weeds and grass weeds, including amaranths, crabgrass, fireweed, Flora's paintbrush, foxtails, junglerice and wiregrass, apply 4-8 pts. / A of Liquid Atrazine 4L at time of planting or ratooning, but before sugarcane emerges. For aerial application, broadcast in a minimum of 5 gals. / A spray volume. For application by ground, broadcast or band, apply in a minimum of 20 gals. / A, unless indicated otherwise. One (1) additional application may be made over the sugarcase as it emerges, and two (2) additional applications may be made interline, after emergence, as directed sprays. Repeat treatments, where needed, may be applied broadcast, band, or interline as suggested with the final application being made prior to "close-in".

Do not apply more than 10 quarts / A to any one grop of sugarcane.

NOTE: Where high rates of Liquid Atrazine 4L are used alone, apply in a minimum of 1 qt. of water for each 1 qt. of Liquid Atrazine 4L applied per sare.

Aerial Application: In Order to acsure that spray will be controllable within the target area when used according to label directions, make applications at a maximum height of 10 ft., using low drift nozzles at a maximum pressure of 40 psi, and restrict application to periods when wind speeds do not exceed 10 mph. To assure that spray will not adversely affect adjacent sensitive nontaget plants, apply Liquid Atrazine 4L alone by aircraft at a minimum upwind distance of 400 ft. from sensitive plants.

<u>Florida</u>

For control of emerged pellithby (artillery) weed: Apply 0.8 - 1.2 pints / A in at least 40 gallons of water as a directed spray, by ground equipment, prior to close-in. Add 4 quarts of surfactant for each 100 gallons of spray. Thoroughly wet weed foliage with spray.

For control of alexandergrass, large crabgrass, pellitory (artiflery) weed, and spiny amaranth, use one of the following methods at planting or atophing:

- 1. Apply 8 pts. / A preemergence. Follow with 1 or 2 applications as needed, postemergence to sugarcane and weeds at 4 pts. / A. Treat bifterly weeds exceed 1.5 inches in height.
- 2. Apply 1-3 times, au needs. Treat before weeds exceed 1.5 inches in height.

Louisiana

For control of annual weeds during the summer fallow period, apply pts. / A to weed-free barls immediately after bad formation. Follow normal weed control program after planting.

Precautions: If making 4 pts. / A applications during the summer fallow period, do not exceed 8 gts. / A during the remainder of the season in order to evoid crop injury and/or illegal residues.

Texa

Use Liquid Atrazine 4L for control of barnyardgrass, pigweed, nursiane, and sunflower, in plant or ration sugarcane. Apply 8 pts. / A of Liquid Atrazine 4L preemergence. Follow with 1 or 2 applications as needed, at 6 pts. / A postemergence to sugarcane and weeds.

For best results, when weeds are emerged, add a nonionic surfectant at a concentration of 2 qts. / 100 gals, to the spray and apply before weeds exceed 1.5 inches in height.

Precautions: (1) Injury to sugarcane may occur when under moisture stress, when soil is of low adsorptive capacity, or when land is first cropped to sugarcane. (2) Do not apply after close-in.

TURFGRASS FOR SOD (Florida Only)

St. Augustinegrass, Centinedegrass, and Zovsiagrass

Broadcast 4-8 pts. / A according to soil texture (Table 4) to control those weeds listed under "General Information" for Liquid Atrazine 4L applied alone.

Table 4. Broadcast Rates of Liquid Atrazine 4L for use on Turfgrass in Florida

Muck or Peat	8 pints	Uid Beds: Within 2 days after lifting sod. New Beds: 3-4 days after sprigging or plugging
Sandy Soil	4 pints	Old Beds: Within 2 days after lifting sod. New Beds: 7-10 days after sprigging or plugging

If weeds regrow, apply an additional 4 pts. / A on muck or peat, or 2 pts. / A on sandy soil.

Precautions: To avoid crop injury, (1) Do not apply within 30 days prior to cutting or lifting. (2) Do not apply in combination with surfactants or other spray additives. (3) Use only on turforess reasonably free of infestations of insects, nematodes and diseases. (4) On newly sprigged turforess, temporary slowing of growth may follow applications.

TURFGRASS FOR FAIRWAYS, LAWNS, SOD PRODUCTION (in states other than Florida*) AND AIMILAR AREAS:

Bermudagrass, Centinedegrass, St. Augustinegrass and Zoysiaurass

Apply Liquid Atrazine 4L after October 1 before emergence of winter annual weeds, for control of annual bluegrass, burclover, carpet burweed, chickweed, corn speedwell, henbit, hop clover and spurweed. Liquid Atrazine 4L will control annual bluegrass even if it is emerged at the time of treatment. For control of summer annual weeds listed "GENERAL INFORMATION" section of this label, also apply Liquid Atrazine 4L in late winter before the weeds emerge. Apply in a minimum of 15 gallons of water per acre or 1 gallon per 1,000 square feet.

Where annual bluegrass is the major weed, use 1 qt. / A at least 30 days after the previous application, but not after April 15. However, do not make more than two (2) applications of this herbicide per year.

<u>Precautions</u>; On newly sprigged turfgrass and hybrid bermudagrass, temporary slowing of growth and yellowing may occur following application. To avoid turf injury,

- (1) Use only on turfgress reasonably free of infestations of insects, nemátodes and diseases
- (2) Do not use on golf greens.
- (3) Do not use north of North Carolina, (with the exception of the Virginia Coarre! Plain) or west of the high rainfall areas of Eastern Okiahoma and Eastern Texas.
- (4) Do not use on muck or alkaline soils.
- (5) Do not apply over the rooting area of trees or ornamentals not listed on this label.
- (i) Do not overseed with desirable turfgrass within 4 months before or 6 months after treatment.
- (7) Do not apply this product to newly seeded Bermudagrass until it has overwintered and has now ell-developed rhizome system. Do not exceed 2 qts. / A of this product within 12 months of seeding Bermudagrass.

Note: Do not graze or feed turf clippings to animals, or illegal residues may result.

^{*}For use on turfgrass for sod in Florida, see "TURFGRASS FO" SOD (Florida Only)" in above section.

MACADAMIA NUTS

For preemergence control of many broadleaf and gress weeds, including crabgress, foxtail, wiregress, Flora's paintbrush. spanishneedles and fireweed, broadcast 4-8 pts. / A of Liquid Atrazine 4L before harvest and before weeds emerge. Repeat as necessary. Do not spray when nuts are on the ground or during the harvest period. Do not apply by air.

GUAVA

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Use only on established plantings which are at least 18 months old. Apply as a directed spray, at 4-8 pts. / A of Liquid Atrazine 4L in 20-50 gallons of spray mix, preemergence or early postemergence to weeds. When applying postemergence, the use of a surfactant and greater spray volume (80-100 gallons of spray mix per acre) may enhance weed control. This product controls many annual broadleaf and grass weeds, including fireweed, purslane, scarlet pimpernel, spanishneedles and sowthistles.

Note: To avoid illegal residues, (1) Do not allow spray to contact guava foliage or fruit. (2) Do not apply more frequently than at 4 month intervals. (3) Do not apply more than 16 pints of Liquid Atrazine 4L per acre per year.

CONIFERS

For control of annual broadleaf and grass weeds prior to transplanting, after transplanting, or in established confiers (including Douglas fir, grand fir, noble fir, white fire, Austrian pine, bishop pine, Jeffrey pine, knobcone pine, loblolly pine, iodgepole pine, (shore pine), monterey pine, ponderose pine, Scotch pine, slash pine, blue spruce and Sitka spruce): Broadcast 4-8 pints in a minimum of 5 gallons of water per acre by air or 10 gallons of water per acre by ground, before weeds are 1.5 inches tall. Apply to established trees between fall and early spring while trees are dormant. For new transplants, apply during or soon after transplanting. For applications prior to transplanting wait for sufficient pracipitation to activate Liquid Atrazine 4L before transplanting. In areas where spring and summer rainfall is inadequate to activate Liquid Atrazine 4L, apply during fall prior to spring transplanting.

For the list of weeds controlled, see "GENERAL INFORMATION" section of this label.

Quackgrass control: Broadcast 8 pints in a minimum of 5 gallons of water per acre by air or 10 gallons per acre by ground, between fall and early spring while trees are dormant and before quackgrass is more than 1.5 inches in height.

Precautions:

- (1) In areas west of the Rocky Mountains (except the Great Sasin) grazing may begin 7 months after a fall application, or 3 months after a winter or spring application.
- (2) To prevent illegal residues, do not graze treated areas of the Great Basin or east of the Rocky Mountains.
- (3) Temporary injury to trees may occur following use of Liquid Atrazine 4L on coarse textured soil.
- (4) To avoid crop injury, do not apply to seedbeds.
- (5) Apply only once per year.

Aerial Application: In order to assure that spray will be controllable within the target area when used according to label directions, make applications at a maximum height of 10 ft, using low drift nozzles at a maximum pressure of 40 psi, and restrict application to periods when wind speeds do not exceed 10 mph. To assure that spray will not adversely affect adjacent sensitive nontarget plants, apply Liquid Atrazine 4L alone by aircraft at a minimum upwind distance of 400 ft. from sensitive plants.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements is this box-apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural posticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on ferms, forests, nerseite of greenhouses.

Do not enter treated broad without projective clothing until sprays have dried.

ROADSIDES

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Apply Liquid Atrazine 4L control certain annual weeds in established perennial grasses alon roadsides in CO, KS, MT, ND, NE, SD and WY, including cheekiness (Downy brome, chass) common (annual) broomweed, little barley, medusahead, sagewort, and fumble muskerd. Broadcast this product at a rate of 2 pts. / A in a minimum of 10 gallons of water by ground equipment, in the fall before the ground freezes, or after thawing in the spring before the established grasses green-up and before weeds emerge^e Examples of established desirable grasses include big bluestem, bluegrama, bromegrass, buffalograss, crested wheatgrass, Indiangrass, little bluestem, side-oats grama, switchgrass and Western wheatgrass. Apply only once per year. Temporary discoloration or other form of injury to the desirable perennial grasses may occur

following application. NOTE: Do not cut or feed road-side hay. Do not allow livestock to graze in treated areas

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