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TRAZINE 4L HERBICIDE

For Season-Long Weed Control in EPA REG. NO. 34704-69

TOTAL 100.0%

ATRAZINE 4L CONTAINS 4 LBS. ACTIVE INGREDIENTS PER GALLON

KEEP OUT OF REACH OF CHILDREN

CAUTION

Read Booklet For Additional Precautionary Statements, Warranty And Limitation Of Damages And Directions For Use

FORMULATED FOR: PLATTE CHEMICAL COMPANY, INC. 150 SO. MAIN STREET FREMONT, NEBRASKA 84025

CLEAN CROP is a Registered T.M. of United Agri Products, Inc.

- ANET CONTENTS: 21/21GALLONS

ACCEPTED

NOV 1 0 1987

Under the Pederal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under, EPA Reg. No.



RAZINE 4L HERBI

ACTIVE INGREDIENTS:

For Season-Long Weed Control in Atrazine (2-chloro-4-ethylamino-5-leopropylamino-s-triazine)40.8% Corn and Sorghum and Other Crops.

EPA REG. NO. 34704-69

TOTAL 100.0M
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*NET.CONTENTS 21/2 GALLONS

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS CAUTION

Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Keep away from food and feedstuffs.

STATEMENT OF PRACTICAL TREATMENT

mediately. Drink one or two glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

If On Skin: Remove contaminated clothing. Wash skin with soap and water.

If In Eyes: Flush with plenty of water. Get medical attention if irritation persists.

If Inhaled: Remove victim to fresh air. Apply artificial respiration if indicated.

ENVIRONMENTAL HAZARDS

rdis pesticide is toxic to aquatic invertebrates. Do not apply rectly to water or wetlands. Runoff and drift from treated areas by be hazardous to aquatic organisms in neighboring areas. Keep out of lakes, streams, and ponds. Do not contaminate water by cleaning of equipment or disposal of wastes.

Atrazine can travel (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 this water table (groundwater) is close to the surface and where these soils are very permeable, i.e., well-drained. Your Local Agricultural Agencies can provide futher information on the type of soil in your area and the location of groundwater.

DIRECTIONS FOR USE

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

RE-ENTRY STATEMENT

Do not enter treated areas without protective clothing until sprays have dried.

Protective clothing means, at least, a hat or other suitable head covering, a long sleeved shirt and long-legged trousers or a coverall type garment (all of closely woven fabric covering the body, including the arms and legs), shoes and socks.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers.

When oral warnings are give, warnings shall be given in a language customarily understood by workers.

Writton or oral warnings must include the following information: CAUTION

(Insert area or field description) treated with Atrazine on (insert date of application.)

Do not enter treated areas without protective clothing until sprays have dried.

In case of accidental exposure: Call a doctor (physician), clinic or hospital immediately. Explain that the victim has been exposed to Atrazine and describe his condition. For further information see the "STATEMENT OF PRACTICAL TREATMENT" portion of the pesticide label.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Do not store under conditions which might adversely affect the container or its ability to function properly. STORAGE: Do not store below temperature of OF. If frozen, warm to 40°F, and reconstitute before using by rolling or shaking the container. Store in safe manner. Store in original container only. Keep container tightly closed when not in use.

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Reduce stacking height where local conditions can effect package strength. Personnel should use clothing and equipment consistent with good pesticide handling.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state the least suppositions by by plant. If by not a tay out of amake.

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 the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of Platte Chemical Company or the Seller. All such risks shall be assumed by the Buyer.

WARRANTY AND LIMITATION OF DAMAGES

Platte Chemical Company warrants that this material conforms to the chemical description on the label and is reasonably lit for the purposes referred to in the Directions For Use, and Conditions of Sale, subject to the inherent risks referred to therein. Platte Chemical Company makes no other express or implied warranty of FITNESS or of MERCHANTABILITY, and no agent of Platte Chemical Company is authorized to do so except in writing with a specific reference to this warranty. Any damages, arising from a breach of this warranty shall be limited to direct damages and shall not include consequential commercial damages such as loss of profits or of value, etc.



GENERAL INFORMATION

ATRAZINE 4L herbicide controls* most annual broadleaf and prass weeds in the crops included on this label. It is also effective in noncrop areas and industrial sites for the control of many annual and perennial broadleaf and grass weeds. ATRAZINE 4L may be applied before or after weeds emerge.

*Important Note: Following many years of continuous use of this product and chemically related products, biotypes of some of the weeds listed on this label have been reported which cannot be effectively controlled by this and related herbicides. These weeds may include lambsquarters, pigweed, black nightshade. kochia, and others. Where this is known or suspected, we recommend the use of this product in combination with other registered herbicides which are not triazines. Consult your State Agricultural Extension Service about specific weed resistance to atrazine in your area and weed control recommendations. Within the specific crop directions on this label, certain weeds are indicated for suppression only. Weed suppression is a visual reduction in weed competition (reduced population and/or vigor) as compared to an untreated area. Degree of suppression will vary with rate used, size of weeds, and environmental conditions following treatment.

In each date where a range of rates is given, the lower rate should be used on light soils and soils low in organic matter, and the higher rate should be used on heavy soils high in organic matter.

Since ATRAZINE 4L acts mainly through root absorption, its eftectiveness depends on rainfall or irrigation to move it into the root zone. Should weeds develop, a shallow cultivation or rotary hoeing will generally result in better weed control.

Care should be taken to avoid using ATRAZINE 4L where adjacent desirable trees, shrubs, or plants might be injured.

Note: Platte Chemical Company does not recommend the use of ATRAZINE 4L in combination with other herbicides or oils except as specifically described on the label.

APPLICATION PROCEDURES

Ground Application

For the most uniform distribution of broadcast applications use 80° flat fan type nozzles. For band applications, use flat fan even spray nozzles. Screens and strainers should be no finer than 50 mesh. Use a pump with capacity to (1) provide sufficient hydraulic agitation during mixing and application to keep the material in suspension and (2) maintain 35-40 psi operating pressure. Use a minimum of 5 gallons of water per acre for preplant incorporated, pre-emergence and post (without oil or surfactant) applications. Use a minimum of 10 gallons of water per acre for all postemergence applications combined with oil or surfactant.

For band applications, calculate the amount to be applied per acre as follows:

Band width in Inches Rate/A for Amount Reverse Row width in Inches X broadcast treatment realment

Aerial Application

For preplant and pre-emergence broadcast treatments, apply at a 1:1 ratio of ATRAZINE 4L to water (example: recommendation ealls for 1 quart of product and is mixed with 1 quart of water) to be applied per acre. For postemergence treatments, on corn and sorghum, apply the recommended rate of ATRAZINE 4L or 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 drift may occur.

Avoid application directly to animals or humans. Flagmen or loaders should avoid inhalation of spray mist or contact with skin and should wash thoroughly before eating and at the end of each day's operation.

With fixed-wing aircraft or helicopter application, an exactly even swath deposition cannot be achieved, and consequently crop injury or pesticide nonperformance may result wholly or in part. Do not apply by air during periods of thermal inversion.



ATRAZINE 4L in water application

ATRAZINE 4L, a liquelied formulation, should be mixed with water and applied as a spray. Pour ATRAZINE 4L into the tank during or after filling. Hydraulic (jet) or mechanical agitation is recommended during mixing and application to keep the materials in suspension. All return lines to the tank must 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.

ATRAZINE 4L in liquid fertilizer applications

Nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier for pre-emergence and preplant applications of ATRAZINE 4L on corn or sorghum. Mixing should be accomplished as described under water applications. Do not apply after corn or sorghum has emerged as there is danger of liquidized fertilizers causing crop injury.

IMPORIANT — Check the compatability of this product with liquid, fertilizers and/cr nitrogen solutions before use. Prepare the proposed-mixture on a small scale and evaluate its suitability for spraying before mixing a large quantity.

Application in water plus emulsifiable oil or oil concentrate Adding emulsifiable oil or oil concentrate to postemergence water-based sprays may improve weed control in corn and sorghum. However, under certain conditions, use of either emulsifiable oil of oil concentrate may seriously damage corn or sorghum. To minimize this possibility, follow directions, procedures, and precautions below. Use a crop oil designed for use with this product containing 1-2% suitable emulsifier, or a suitable crop oil concentrate designed for use with this product and containing not more than 20% emulsifier or surfactant blend. Several oils and crop oil concentrates of these types are on the market. Emulsifiable oil and oil concentrate contaminated with water or other materials can cause compatibility problems and/or crop injury.

Mixing procedures - all uses: (1) Be sure sprayer is clean and not contaminated with other products like 2,4-D or other materials, as crop injury may result. (2) Fill tank 1/2 to 2/3 full with clean water. (3) Start agitation. (4) Four product directly from

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even crop part. container Into tank. (5) Add emulsifiable oil, or oil concentrate, or a tank mix herbicide. (6) Finish filling tank with water, nitrogen solution, or liquid fertilizer. (7) Empty tank as completely as possible before refilling to prevent buildup of oil or emulsifiable concentrate residue in tank. Maintain agitation to avoid separation of other materials from water, nitrogen solution, or liquid fertilizer remaining in tank. (8) If an oil or oil concentrate film starts to build up in tank, drain it, and clean with strong detergent solution or solvent. (9) Clean sprayer thoroughly immediately after use by flushing system with water containing a detergent. (10) For liquid nitrogen or liquid fertilizer, use suction screens of 16-mesh or coarser.

NOTE: 1) Do not use oil in ATRAZINE 4L sprays when corn or sorghum is under stress from prolonged cold, wet weather, poor fertility, or other factors or when corn or sorghum is wet and succulent from recent rainfall as crop injury may occur. 2) Do not use oils in sprays when treating inbred lines or any breeding stock as injury may occur. 3) Adding other insecticides, herbicides, liquid fertilizer, or other materials is not recommended because they may cause compatability problems or crop injury. 4) Store and handle emulsifiable oil carefully. Oil contaminated with even a small amount of water may not emulsify properly when added to the tank. 5) Do not make more than one application of ATRAZINE 4L and emulsifiable oil in water per season. 3) All return lines to the tank must discharge below liquid level.

CORN

ne application will control most annual broadleaf and grass weeds such as barnyardgrass*, witchgrass*, (Panicum capillare), yellow foxtail*, green foxtail*, wild oats, large (hairy) crabgrass, giant foxtail*, velvetleaf*, morning-glory, lambsquarters*, ragweed, nightshade*, purslane, and mustard.

(*Local resistance may result in suppression only or lack of control. Refer to IMPORTANT NOTE within GENERAL INFORMATION SECTION of this label.)

ATRAZINE 4L may be applied either before planting, at planting or after planting at the rate indicated in Table 1.

For preplant a or complete li as a carrier of ed as there is PREPLANT: indicated in T Apply before, is tilled or wo of ATRAZINE ATRAZINE 4L PREEMERGE to weed eme-

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Light So sands as Medium loams the organic Heavy S with med

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For preplant and preemergence applications, nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier of ATRAZINE 4L. Do not apply after corn has emerged as there is danger of liquid fertilizer causing crop injury.

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PREPLANT: Broadcast in the spring after plowing at the rate indicated in Table 1.

Apply before, during or after final seedbed preparation. If soil la tilled or worked after application, avoid deep incorporation if the column of the column

PREEMERGENCE: Apply during or shortly after planting prior to weed emergence at the rate indicated in Table 1.

POSTEMERGENCE: Apply before weeds exceed 11/2 inches in height at the rate indicated in Table 1.

TABLE 1

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Rate of ATRAZINE 4L	Depending	Upon Soll Type!
Soil Texture		Atrazine 4L Broadcast Rate/A
Light Soils: sands, load sands and sandy loam	•	4 pints
Medium Soils: silt and loams that are low in organic matter	clay	4¾ pints
Heavy Soils: silt and c with medium to high o matter and clays (inclu dark prairie soils of the Belt)	rganic ding the	6 pints
Peats, muck and high clays (apply postemers only)		6 pints

For Preplant or Preemergence Applications in Western KS, Western NE, Eastern CO, Eastern WY, NM, West TX and the Pan Handle of OK. On sands, loamy sands, sandy loams, mild to strongly alkaline soils and all recently leveled soils, apply 22/s

pis. per acre for broadleaf weed control. Broadleaf weeds such as pigweed, lambsquarters, nightshade, purslane and kuchia 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.

Lay-by treatment (Broadleaf and grass control)
Broadcast 2 to 4 pts. per acre in a minimum of 5 gals. of water or nitrogen solution, before weeds are 1½ inches high and corn ta 20 to 30 inches high. When using nitrogen solutions, direct the apray to lower 3 to 4 inches of complains to avoid corn follage injury. Maintain agitation in spray tank during application.

Postemergence with emulsifiable oil or oil concentrate in water

IMPORTANT: Be sure to read precautions under use with water plus emulsifiable oil or oil concentrate in water.

BROADLEAF AND GRASS CONTROL: Broadcast 4 pts. per acre after weed emergence, but before weeds reach 1½ inches in height. Add emulsifiable oil at rate of 1 gal. per acre for ground applications and ½ gal. per acre for aerial applications. Add oil concentrate at rate of 1 qt. per acre for ground applications.

BROADLEAF CONTROL: Broadcast 2²/₅ pts. per acre for control of broadleaf weeds, such as annual morningglory, cocklebur, lambsquarters, mustard, pigweed, ragweed, smartweed, and wild buckwheat. Add emulsifiable oil at rate of 1 gal. per acre for ground applications and ½ gal. per acre for aerial applications. Add oil concentrate at rate of 1 qt. per acre for ground applications. Apply before pigweed and lambsquarters reach 6 inches in height and before all other weeds reach 4 inches in height. A cultivation may be necessary if all weeds are not controlled or if weeds regrow.

PROBLEM WEEDS

For control of yellow nutsedge* and Canada Thistle*. ATRAZINE 4L will control yellow nutsedge (Cyperus esculentus) and Canada thistle (Cirsium arvense) when applied as indicated below. For best results, ATRAZINE 4L should be used each year until yellow nutsedge or Canada thistle is eliminated or reaches a level of infestation where neither weed species is



a problem. If regrowth of yellow nutsedge or Canada thistle occurs following the last application of ATRAZINE during the season, cultivate once. When ATRAZINE 4L is applied postemergence to the weeds, 1 gallon of emulsifiable crop oil should be added per acre.

For control of yellow nutsedge and Canada thistle with ATRAZINE 4L several alternative methods of use are available. These methods are listed in order of preference below. If other weed species, such as annual grasses, are also expected, use an alternative method that includes a preplant or pre-emergence treatment plus a postemergence combination with emulsifiable oil or apply all the ATRAZINE 4L preplant or pre-emergence.

- 1) Broadcast 4 pts. of ATRAZINE 4L plus 1 gallon of emulsifiable oil per acre after the crop has emerged and after yellow nutsedge or Canada Thistle plants emerge, but before yellow nutsedge plants reach a height of 3 Inches or Canada thistle plants reach a height of 6 inches. Follow with a second application of 4 pts. of ATRAZINE 4L plus 1 gal. of oil per acre 10 to 20 days but prior to lay-by (20 to 30 Inches) after the initial application has been made.
- 2) Broadcast 4 pts. of ATRAZINE 4L per acre preplant. Follow an application of 4 pts. of ATRAZINE 4L plus 1 gallon of oil per acre, after the corn and weeds emerge, but before nutsedge plants reach a height of 3 inches (for nutsedge control only).
- 3) Broadcast 4 pts. of ATRAZINE 4L per acre during or shortly alter planting, but prior to crop or weed emergence. Follow with an application of 4 pts. of ATRAZINE 4L plus 1 gallon of oil per acre after the corn and weeds emerge, but before yellow nutsedge plants reach a height of 3 inches or Canada thistle plants reach a height of 6 inches.
- 4) Broadcast 8 pts. of ATRAZINE 4L plus 1 gallon of oil per acre after the crop has emerged but prior to lay-by (20 to 30 inches) and after yellow nutsedge and Canada thistle plants emerge, but before nutsedge reaches a height of 3 inches or Canada thistle is more than 6 inches tall.
- 5) Broadcast 8 pts. of ATRAZINE 4L per acre preplant (for yellow nutsedge control only).

6) Broadcast I after planting, nutsedge cor NOTE: Oil showet or under a 4L per acre. S plications of Al for additional

For Quackgra Into Corn Pro Split applicat and plow 1 to Broadcast a s in the spring t are 1½ inche

Single applic or spring. Plo ('Local resista trol. Refer to II TION SECTIO

quackgrass a:

TANK MIXTATRAZINE 4L For control of e will be plenter previous crop i 1 to 2 pts. Par acre. Add 8 oz spray. Add ATF with water. Ad Refer to the Pacautions.

ATRAZINE 41 Use a tank mix trol of most an silage corn on black nights



6) Broadcast 8 pts. of ATRAZINE 4L per acre during or shortly after planting, but prior to crop or weed emergence. (For yellow nutsedge control only).

NOTE: Oil should not be used in Atrazine's prays when corn is wet or under stress, especially when using 8 pts. of ATRAZINE 4L per acre. See precaution section under Postemergence Applications of ATRAZINE 4L plus Emulsifiable Oil in Water on Corn for additional directions.

For Quackgrass* Control On Land Going Into Corn Production

Split application: Broadcast 4 pts. per acre in the fall or spring and plow 1 to 3 weeks later.

Broadcast a second application at the rate of 4 pts, per acre in the spring before, during or after planting, but before weeds are 1½ inches high. This split application will control both quackgrass and most annual broadleaf grass weeds.

Single application: Broadcast 6 to 8 pts. per acre in the fall or spring. Plow 1 to 3 weeks after application.

(*Local resistance may result in suppression only or tack of control. Refer to IMPORTANT NOTE within GENERAL INFORMA-

TANK MIXTURES WITH ATRAZINE 4L IN CORN ATRAZINE 4L + Paraguat

For control of existing vegetation and residual control where corn will be planted directly into cover crop, established sod or in previous crop residues - Broadcast 4 to 6 pts. ATRAZINE 4L and 1 to 2 pts. Paraquat per acre in 20 to 60 gallons of water per acre. Add 8 oz. of nonionic surfactant per 100 gallons of diluted spray. Add ATRAZINE 4L to spray tank first and thoroughly mix with water. Add the Paraquat and surfactant last.

Refer to the Paraquat label for further directions, limitations and cautions.

ATRAZINE 4L + Alachior 4EC

TION SECTION of this label.)

Use a tank mixture of ATRAZINE 4L + alachlor 4EC for the control of most annual broadleaf and grass weeds in corn (field and silage corn only) such as annual morning glory, barnyardgrass, black nightshade, brachiaria, buttonweed (velvetleaf),

carpetweed, cocklebur, crabgrass, fall panicum, Florida pusley, giant foxtail, green foxtail, yellow foxtail, goosegrass, lambsquarter, pigweed, pwslane, mustard, common ragweed, smartweed and witchgrass.

Applications may be made preplant, within 7 days of planting; preemergence, or post-emergence, until weeds reach the two leaf stage and the corn is no more than 5 inches tall.

Refer to the alachlor 4EC label for application rates and directions. Applicable limitations and precautions on this and the alachlor 4EC label must also be followed.

ATRAZINE 4L + Alachiof 4EC + Paraquat or Glyphosate For Millimum-Tillage or No-Tillage Systems

For commol of many emerged annual weeds, suppression of many emerged perennial weeds, and preemergence control of many annual masses and weeds in areas where corn will be planted directly into a cover crop; established sod or in previous crop residues. Regrowth from perennial weeds will not be controlled. Do not apply by air.

Make application imprediately before during, or after planting, but before crop emergence. Refer to the alachlor 4EC label for application rates and directions. All applicable directions, limitations, and precautions on this and the alachlor 4EC and paraquat or glyphosate labels must be followed.

ATRAZINE 4L + Propachlor 65W

Use a tank mixture of ATRAZINE 4L + propachlor 65W for control of most annual broadleaf and grass weeds in corn (field, hybrid seed, silage and sweet corn only), such as annual morningglory, annual ryegrass, barn-yardgrass (watergrass), buttonweed (velvetleaf), carpetweed, cocklebur, crabgrass, fall panicum, Florida pusley, giant foxtail, green foxtail, yellow foxtail, goosegrass, groundsel, jimsonweed, lambsquarters, mustard, nightshade, pigweed, purslane, ragweed, smartweed



and sunflower. Broadcast 21/10 to 31/5 pts. of ATRAZINE 4L plus 31/5 to 6.0 lbs. of propachlor 65W per acre on the soil surface any time from immediately after planting until broadleaf and grasses reach the two-leaf stage. Use the lower rates of ATRAZINE 4L and propachlor 65W on light-textured soils low in organic matter. Use the higher rates on heavy-textured soils high in organic matter.

A minimum of 24/5 pts. per acre of ATRAZINE 4L in the tank mixture will give better control of annual morningglory, buttonweed (velvetleaf), cocklebur and sunflower.

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 applications applied to the soil surface before crop and weeds emerge. Add the ATRAZINE 4L to the spray tank first and thoroughly mix with water. Prepare a slurry of propachlor 65W and water and add the slurry to the spray tank.

Refer to propachlor 65W label for further directions, limitations and cautions.

ATRAZINE 4L + Dual® 8E or ATRAZINE 4L + Dual® 8E + Simazine

PREPLANT/PREEMERGENCE

Use a tank mixture of ATRAZINE 4L + Dual 8E or ATRAZINE 4L + Dual 8E + simazine as a preplant surface, preplant inproporated or pre-emergence application for the control of bar-injuring paragrass, crabgrass, crowfootgrass, fall panicum, foxtail millet, priant foxtail, goosegrass, green foxtail, prairie cupgrass, red rice, gnalgrass (Brachiaria), southwestern cupgrass, witchgrass, yellow foxtail, yellow nutsedge, black nightshade, carpetweed, Florida pusley, galinsoga, pigweed, browntop panicum, cocklebur, common purslane, hairy nightshade, lambsquarters, morningglory, ragweed, smartweed, and velvetleaf in corn.

To apply, refer to the tank mix directions appearing on the Dual 8E label. Note, where directions specify AAtrex® 4L, substitute CLEAN CROP ATRAZINE 4L. All applicable directions, limitations, and precautions on this and the Dual 8E and simazine labels must be followed.

POSTEMERGENCE

Use a tank mixture of ATRAZINE 4L plus Dual 8E as a postemergence application for the control of barnyardgrass, crabgrass, crowfootgrass, fall panicum, foxtail (giant, green and yellow), jimsonweed, mustard, pigweed, prickly sida, purslane, ragweed, smartweed, and velvetleaf and for partial control of cocklebur, morning-glory, and yellow nutsedge. To apply, follow the tank mix directions appearing on the Dual 8E label. Note, where directions specify AAtrex 4L, substitute CLEAN CROP ATRAZINE 4L. All applicable directions, limitations, and precautions on the Dual 8E label must be followed.

ATRAZINE 4L + Dual 8E + Paraquat or ATRAZINE 4L + Dual 8E + Glyphosate or ATRAZINE 4L + Dual 8E + Simazine + Paraquat or ATRAZINE 4L + Dual 8E + Simazine + Glyphosate.

For Minimum-Tillage or No-Tillage Systems

Use a tank mixture of ATRAZINE 4L + Dual 8E with paraquat or glyphosate, or ATRAZINE 4L + Dual 8E + simazine with paraquat or glyphosate in minimum-tillage or no-tillage systems where corn is planted directly into a cover crop, stale seedbed, established sed, or previous crop residues.

The paraquat tank mixtures will control most emerged annual weeds and suppress many perennial weeds, in addition to controlling most pre-emergence annual broadleaf weeds and grasses. The glyphosate tank mixtures will control emerged annual and perennial weeds, in addition to controlling most pre-emergence annual broadleaf weeds and grasses.

Make application before, during, or after planting but before the corn emerges. To apply, follow the tank mix directions appearing on the Dual 8E label. Note, where directions specify AAtrex 4L, substitute CLEAN CROP ATRAZINE 4L. All application directions, limitations, and precautions on this and the Dual 8E, simazine, paraguat and glyphosate labels must be followed.

ATRAZINE 4L + Simazine 80W or Simazine 4L or Simazine 90DF

Use a tank mixture of ATRAZINE 4L + simazine for the control of crabgrass, fall panicum and carpetweed, in addition to the control of the weeds listed for ATRAZINE 4L alone.

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control to the Make broadcast application of tank mix before planting, at planting, or after planting, but prior to emergence of corn and weeds. Apply at the rates shown in the table below. Cultivate shallowly if weeds develop.

PREPLANT SURFACE-APPLIED: Use on medium- and fine-textured soils in minimum-tillage or no-tillage systems only in CO, IL, IN, IA, KS, KY, MN, MO, MT, NE, ND, SD, WI, and WY. Apply 25 the recommended rate of ATRAZINE 4L and simazine shown in Table 2 for the soil texture as split treatment 30-45 days before planting. Apply the remainder at planting. Applications want then the Remainder may be discussed as althor a split or single treatment. On coarse-textured soils, do not apply more than two weeks before planting.

If weeds are present at time of treatment, apply in a tank mix combination with a contact herbicide (for example, paraquat or glyphosate). All applicable directions, precautions and limitations on the contact herbicides' label must be followed.

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.

PREPLANT INCORPORATED: Make soil application and incorporate in the spring before, during, or after final seedbed preparation. Avoid deep incorporation. For best results, apply within two weeks before planting.

PREEMERGENCE: Apply during or shortly after planting, but prior to crop and weeds emergence.

All applicable directions, precautions, and limitations on this and the simazine label must be followed.

TABLE 2
Tank Mixtures With Simazine on Corn

lanx	MIXIUI	SZ MIIII	Simaz	ine on	Com	
	BRO	ADCAST R	ATE PER	ACRE		
1:1 F	latro*			1:2 R	atio"	
Simazine 80W	Simazine 90DF	Simazine 4L	Atrazine 4L	Simazine 80W	Sımazine 90F	Simazine 4L
(TURE: my sand, :	sandy loar	n				
1¼ fbs.	14, lbs.	2 pis.	195 pts.	13/5 lbs.	14 lbs	21/5 pis
		sandy cla	y loam, sit	ly clay loar	n, sandy c	lay, or silty
11/2 lbs.	173 lbs.	22/1 pts	13/5 pts.	20 lbs	14s lbs	34, pls
	1:1 F Simazine 80W CTURE: my sand, 1 ¹ 4 lbs. loam, silt, low organi	BRO. 1:1 Ratro* Simazine Simazine 80W 90DF TURE: my sand, sandy loar 1'4 lbs. 14, lbs. loam, siff, clay loam low organic matter	BROADCAST R 1:1 Ratro* Simazine Simazine Simazine 80W 90DF 4L TURE: my sand, sandy loam 1¼ fbs. 1½ fbs. 2 pts. loam, silf, clay loam, sandy clatow organic matter	BROADCAST RATE PER 1:1 Ratio* Simazine Simazine Simazine Atrazine 80W 90DF 4L 4L TURE: my sand, sandy loam 11/4 lbs. 11/4 lbs. 2 pts. 11/5 pts. loam, sif, clay loam, sandy clay loam, sif low organic matter	BROADCAST RATE PER ACRE 1:1 Ratio* 1:2 R Simazine Simazine Simazine Atrazine Simazine 80W 90DF 4L 4L 80W TURE: my sand, sandy loam 1½ lbs. 1½ lbs. 2 pts. 1½ pts. 1½ tbs. loam, silt, clay loam, sandy clay loam, silty clay foar low organic matter	1:1 Ratio* Simazine Simazine Simazine Row 90DF 4L 4L 80W 90F TURE: my sand, sandy loam 114 lbs. 115 lbs. 2 pts. 115 pts. 115 lbs. 115 lbs. loam, sandy clay loam, silty clay loam, sandy clow organic matter



BROADCAST RATE PER ACRE

1:1 Ratio*				1.5 B	alio"		
Atrazina	Simazine	Simazine	Simazine	Alrazine	Sımazıne	Simazine	Simazine
4L	8000	900F	4L	4L	80\Y	90F	4L

oam, silt loam, silt clay loam, sandy clay loam, silty clay foam, sandy clay, or silty clay with medium to high organic matter, and clay (including dark prairie soils of the corn belt)

3 pts 14, ibs 14, ibs 3 pts 14, pts 24, ibs 24, ibs 3 4, pts.

*For control of most weeds

ATRAZINE 4L + Simazine 80W, Simazine 4L, or Simazine 90DF with Glyphosate

Use a tank mixture of ATRAZINE 4L + simazine + glyphosate for control of certain broadleaf weeds and grasses where corn will be planted directly into a cover crop, established sod, or in previous crop residues. Refer to glyphosate label for rates and tank mix directions. All applicable directions, limitations, and precautions on this, the simazine, and the glyphosate label must be followed.

ATRAZINE 4L + Simazine 80W, Simazine 4L, or Simazine 90DF with Paraquat

Use a tank mixture of ATRAZINE 4L + simazine + paraquat to control most emerged weeds and for residual weed control where corn will be planted directly into a cover crop, established and or in provious crop residues. As a ATRAZINE 4L and attracting to which the provious crop residues are ATRAZINE 4L and attracting to which the provious crop residues. As a ATRAZINE 4L and attracting the which the provided and a notionic surfactant, such as X-77. LOVELAND ACTIVATOR 90, or similar nonionic surfactant approved for agricultural use.

Continue agitation during application. Apply 2 to 4 pts. of ATRAZINE 4L plus 1½ to 2½ lbs. simazine 80 (or 2 to 4 pts. simazine 4L, or 1½ to 2½ lbs. simazine 90DF) plus 1 to 2 pts. paraquat in 20 to 60 gals. of water per sprayed acre. Make broadcast application before, during, or after planting, but before emergence of corn. Add ½ pt. of a nonionic surfactant per 100 gallons of spray mixture. Use the higher rate of paraquat if existing weeds are 4 to 6 inches tall. Weeds taller than 6 inches will not be controlled.

All applicable directions, limitations, and precautions on this, the simazine and the paraguat labels must be followed.

PRECAUTIONS FOR ALL APPLICATIONS TO CORN

- 1) Do not apply more than 8 pts. ATRAZINE 4L to corn in any one year.
- 2) Following harvest of a treated crop, plow (moldboard or diskplow) 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) Do not graze treated area or feed treated forage to tvestock for 21 days following application.

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

SUGGESTIONS FOR ROTATIONAL CROPS

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

2)If ATRAZINE 4L is applied after June 1C, do not rotate with cross other than corn or sorghum the next year or injury may

3) If ATRAZINE 4L is used at a broadcast rate higher than 6 pts. per acre (or comparable rates in a band application) or 6 pts. per acre + simazine 4L (or equivalent of another simazine formulation), crop of untreated corn or sorghum should precede the next rotational crop.

4) In the High Plains and Intermountain area of the West where rainfall is sparse and erratic or where irrigation is required, use ATRAZINE 4L to control weeds in corn only when corn is to follow corn or a crop of untreated corn, or sorghum is to precede other rotational crops.



[&]quot;For control of expected heavy infestations of crabgrass and fall panicum.

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5) In eastern parts of the Dakotas, KS, western MN, and NE, do not rotate to soybeans if the rate applied to corn or sorghum was more than 4 pts/A or equivalent band application rate, as soybean injury may occur.

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6) Injury may occur to soybeans planted in north-central and northwest IA, south-central and southwest MN, north-east NE, southeast SD, and other areas the year following application on soils having a calcareous surface layer.

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7) Do not plant sugar beets, tobacco, vegetables (including dry beans), spring-seeded small grains or small-seeded legumes and grasses the year following ATRAZINE 4L application or injury may occur.

Stock

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SORGHUM AND SORGHUM-SUDAN HYBRIDS

•• (GRAIN AND FORAGE TYPES):

PS to any injury ATRAZINE 4L will control most annual broadleaf and grass weeds such as barnyardgrass, witchgrass (Panicum capillare), yellow foxtail, green foxtail, wild oals, large (hairy) crabgrass, giant foxtail, velvetleaf, morningglory, lambsquarters, ragweed, nightshade, purstane and mustard. ("Local resistance may result in suppression only or lack of control. Refer to IMPORTANT NOTE within GENERAL INFORMATION SECTION of this label.)

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ATRAZINE 4L may be applied either before planting, at planting or after planting as indicated below.

6 pts. 6 pts. 1e for-3cede Preplant (Broadleaf and Grass Control): Broadcast in the spring after plowing at the rate in

Broadcast in the spring after plowing at the rate indicated in Table 3. Application may be made before, during or after final seedbed preparation. If soil is tilled or worked after application, avoid deep incorporation of ATRAZINE 4L. Best results have been obtained when ATRAZINE 4L is applied within two weeks prior to planting.

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Pre-emergence (Broadleat and Grass Control):
Apply during or shortly after planting, but prior to weed or crop
emergence at the rate indicated in Table 3.

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Preplant and Pre-emergence Applications¹
In Sorghum

W OUTS NO.				
Soil Texture	Organic Matter	Broadcast Rale of Atrazine 4L Per Acre		
Light Soils: sands, loamy sands, sandy loams and sandy clay loams	any level	DO NOT USE (except for premergence use on bedded sorghum In Arizona and California as indicated below)		
Medium and Heavy Soils:	Less than 196			
Silt loams, clay loams	1%-11/2%	31/ ₅ -4 pts.		
and clays	More than 11/296	31/ ₅ -4-1/ ₄ pts.		

'ATRAZINE 4L should not be applied preplant to sorghum grown in NM, OK, TX, Western KS, Eastern CO, AR, LA, TN, MS, AL, GA, FL, SC, and NC, or pre-emergence to sorghum grown in NM, TX, OK, Western KS, Eastern CO, except in Northeastern OK and the Texas Gulf Coast.

In case of planting failures, sorghum can be replanted into soil previously treated with ATRAZINE 4L. Do not make a second broadcast application or injury may occur. If ATRAZINE 80W is oplied in a band and sorghum is replanted in the untreated w middles, ATRAZINE 4L can be applied in a band to the second planting.

e-emergence Broadleaf Weed Control in Furrow Irrigated Bedded Sorghum (Arizona and California only):

For pre-emergence control of broadleaf weeds such as ground cherry, lambsquarters, morningglory, mustard, pigweed and purslane, broadcast 13/5 to 22/5 pts. per acre. Use the lower rate on coarse-textured soils and soils low in organic matter and use the high rate on fine-textured soils and soils high in organic matter. Make application after bed preparation, during or after planting, but before sorghum and weeds have emerged and before the first furrow irrigation. Several regular irrigations should follow the application, making sure that all soil is thoroughly wet.

Precautions for Pre-emergence Applications for ATRAZINE 4L to Furrow Irrigated Beeded Sorghum Grown in Arizona and California:

To avoid possible sorghum injury, do not use on sand or loamy sand soils or on sorghum planted in the furrow. Additionally, applications made to sorghum growing on alkali soils or where cuts, fills or erosions have exposed calcareous or alkali subsoils, may result in crop injury. In case of crop failure, do not replant sorghum for eight months following application. Corn may be planted immediately.

Postemergence Broadleaf and Grass Weed Control: Apply before weeds exceed 1½ inches in height at the rate indicated in Table 4. Applications may be made up to close-in.

TABLE 4

Postemergence Applications In Sorghum				
Soil Texture	Minimum Height of Sorghum at Treatment	Eroadcast Rate Atrazine 4L		
Sand or loamy sand	DO NOT USE			
Sandy loam	See directions for broadleaf weed control below			
Silt loam to sandy clay loam	Completely emerged	4-4¾ pts.		
Olton and Pullman clay soils	At least 6 inches high	4-4¾ pls.		
Silty clay loams and heavier solls	Completely emerged	6 pts.		

Postemergence Broadleaf Weed Control with ATRAZINE 4L plus Emulsifiable Oil In Water:

Broadcast 2²/₅ pts. per acre for control of broadleaf weeds such as annual morningglory, cocklebur, lambsquarters, mustard, pigweed, ragweed, smartweed and wild buckwheat. Application

ATRAZINE In Arizona

nd or loamy tionally, apwhere culs, bsoils, may not replant orn may be should be made before pigweed and lambsquarters reach six inches in height and before all other weeds reach four inches in height. In TX, NM, OK, Western KS, CO and the desert regions of CA and AZ, apply when sorghum is 6-10 inches in height, but before it reaches the boot stage. In all other areas, apply after sorghum reaches the three-leaf stage. Add emulsifiable oil at the rate of 1 gallon per acre for ground applications and ½ gallon per acre for aerial applications. A cultivation may be necessary if all weeds are not controlled or if regrowth of weeds occur.

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Precautions for Application of ATRAZINE 4L plus multiplication of ATRAZINE 4L plus multiplication of ATRAZINE 4L plus multiplication of the stress for prolonged cold, well weather, poor fertility or other factors or when sorghum is wet and succulent from recent rainfall as crop injury may occur.

2) Do not use oil in ATRAZINE 4L sprays when treating inbred lines or any breeding stock as injury may occur.

- 3) Adding other insecticides, herbicides, liquid fertilizers or other materials is not recommended because they may cause compatability problems or crop injury.
- 4) Store and handle emulsifiable oil carefully. Oil contaminated with even a small amount of water may not emulsify properly when added to the lank.
- 5) Do not make more than one application of ATRAZINE 4L and emulsifiable oil in water per season.

Postemergence Broadleaf Weed Control with ATRAZINE 4L plus Surfactant in OK, NM, TX, Western KS, CO and Desert regions of AZ and CA only:

Broadcast 22/5 pts. of ATRAZINE 4L plus ¾ to 1½ pts. of surfactant per acre after sorghum reaches 6 inches in height, but before weeds reach 1½ inches in height. Apply only on sandy foam and finer textured soils.

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TANK MIXTURES WITH ATRAZINE 4L IN SORGHUM

ATRAZINE 4L + Igran® 80W

Use a tank mixture of ATRAZINE 4L. + Igran 80W to control certain broadleaf weeds and grasses. Refer to Igran 80W label for directions, precautions, limitations, and weeds controlled by Igran 80W.

ATRAZINE 4L + Dual 8E (for use only on seed treated with Concep®)

Use a tank mixture of ATRAZINE 4L + Dual 8E for control of most annual broadleaf weeds and grasses. For use only when the sorghum seed has been properly treated by the seed company with Concep. Refer to the Dual 8E label for directions, precautions, and limitations.

PRECAUTIONS FOR ALL APPLICATIONS TO SORGHUM

- 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 deliciency or to sorghum growing on highly calcareous soils may result in crop injury.
- 3) Do not graze or feed forage from treated areas for 21 days following application.
- 4) Following harvest of a treated crop, plow (moldboard or diskplow) and thoroughly till the soil in the fall or spring to minimize possible injury to rotational spring-seeded crops, regardless of rate used.

For applications to furrow-irrigated bedded sorghum in Arizona and California and for postemergence applications plus emulsifiable oil, see additional precautions under these sections of this label.

SUGGESTIONS FOR ROTATIONAL CROPS:

- 1) Land treated with ATRAZINE 4L should not be planted to any crop except corn or sorghum until the following year or injury may occur.
- If ATRAZINE 4L is applied after June 10, do not rotate with crops other than corn or sorghum the next year or injury may occur.
- 3) If ATRAZINE 4L' is used at a broadcast rate higher than 6 pts. per acre (or comparable rates in a band application), a crop of untreated corn or sorghum should precede the next rotational crop.
- 4) In the High Plains and Intermountain areas of the West where rainfall is sparse and erratic or where irrigation is required, use ATRAZINE 4L to control weeds in sorghum only when sorghum is to follow sorghum or a crop or untreated sorghum, or corn is to precede other rotational crops.
- 5) In Western Minnesota and Eastern parts of the Dakotas, Nebraska, and Kansas, sorghum treated with ATRAZINE 4L should not be followed with soybeans if the broadcast-rate applied was more than 4 pts. per acre (or comparable rate in a band) or injury may occur.
- 6) Injury may occur to soybeans planted in North Central lowa and South Central Minnesota the year following an ATBAZINE of annihilation on Harra Replanted Bit under no other adjustment of calcareous surface layer.
- 7) Do not plant sugar beets, tobacco, vegetables, (including dry beans), spring-seeded small grains or small-seeded legumes and grasses the year following ATRAZINE 4L application or injury may occur.

POSTEMERGENCE WINTER WEED CONTROL IN TEXAS

For use on fall bedded land and in the Gulf Coast and Blacklands of Texas. Broadcast $4/_5$ to 1 qt. per acre postemergence for control of winter weeds only, such as henbit, seedling dock and annual thistle on land that will be planted to corn, grain sorghum, or forage sorghum the following spring.

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For best results, add a suitable surfactant such as X-77 or AC-TIVATOR 90, at a rate of 0.5% of spray volume, an emulsifiable oil at a rate of 1.0% of spray volume, or an oil concentrate at rate of 1 qt. per acro.

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 followir g this treatment.

CHEMICAL FALLOW

WHEAT-SORGHUM-FALLOW

This treatment controls' annual broadleaf and grass weeds following wheat harvest and in the following sorghum crop when growd under minimum tillage.

Apply 6 pts. to wheat studble immediately following wheat harvest. I weeds are present, remove them with a sweep plow or other suitable implement after application. Plant sorghum into wheat stubble the following spring with minimum disturbance of the soil. Use a surface planter or a planter leaving a shallow furrow. If weeds are present at planting, remove them with a sweep plow or other soltable implement before planting.

Precautions: (1) Use only on silt loam or finar textured soil. (2) Wheat-sorghum-fallow cropping sequence must be followed. (3) Do not apply following sorghum harvest.

Note: Do not graze er feed forage from treated area to livestock. Do not plant any crop other than those on this label within 18 months following treatment.

("Local resistance may result in suppression only or lack of control of some weeds. Refer to IMPORTANT NOTE within GENERAL INFORMATION SECTION of this label.)

WHEAT-CORN-FALLOW (KS, NE)

This treatment controls cheatgrass (downy brome, chess), kochia*, mustards, pigweed*, Russian thistle, wild lettuce, wild sunflower, and volunteer wheat following wheat harvest. Control may extend into the following corn crop when grown under minimum tillage.

Apply 6 pts. per acre to wheat stubble immediately following wheat harvest. If weeds are present, remove them with a sweep plow or other suitable implement after application. Plant corn into wheat stubble the following spring with minimum disturbance of the soil. Use a surface planter or a planter leaving a shallow furrow. If weeds are present at planting, remove them with a sweep plow or other suitable implement before planting. PRECAUTIONS: (1) Use only on silt loam or liner textured soil. (2) Wheat-corn-fallow cropping sequence must be followed. (3) Do not apply following corn harvest.

NOTE: Do not graze or feed forage from treated area to livestock. Do not plant any crop other than those on this label within 18 months following treatment.

('Local resistance may result in suppression only or 'ack of control. Refer to IMPORTANT NOTICE within GENERAL INFORMATION SECTION of this label.)

WHEAT-FALLOW-WHEAT (CO, KS, MT, NE, ND, SD, and WY) This treatment controls cheatgrass (downy brome, chess), common lambsquarters*, field pennycress, kochia*, mustard, Russian thistle, wild lettuce, and suppresses volunteer wheat during fallow period of a wheat-fallow-wheat rotation. Apply 1 to 2 pts. per acre. Use higher rate to control wild sunflower and pigweed*. Apply to stubble ground. Apply only once during the same fallow period. Use only on silt loam or liner textured soil. (*Local resistance may result in suppression only or lack of control. Refer to IMPORTANT NOTE within GENERAL INFORMA-/TION SECTION of this label.)

PROSO MILLET PREPLANT INCORPORATED OR PREEMERGENCE

To control foxtails, kochia, common lambsquarters, redroot pigweed, Russian thistle, slimleaf lambsquarters and spotted spurge, apply 1 to 2 pts. per acre on soils with less than 2% organic matter. Apply 2 to 4 pts. per acre on soils with 2% or higher organic matter.

Make only one application per year. Refer to "Suggestions for Rotational Crops" under corn section for rotational crops information. (*Local resistance may result in suppression only or lack of control. Refer to IMPORTANT NOTE within GENERAL INFORMATION SECTION of this label.)

RANGELAND

To control certain weeds, including cheatgrass (downy brome, chess), common (annual) broomweed, little barley, medusahead, sagewort, and tumble mustard. Use lower rate where cheatgrass is major problem weed; use higher rate for other weeds.

Polsonous plants: To control tansymustard, pigweeds', lambsquarters', tumble mustard, cocklebur, and fiodleneck, apply 2 pts. per acre. To control other mustards (*Brassica* spp.) groundcherry (annual), broomweed, and threeawn or poverty grass (*Aristida* spp.) apply 4 pts. per acre. Partial control may be achieved with 2 pts. per acre. Sneezeweed and dogbane are partially controlled at 4 pts. per acre. ('Local resistance may result in suppression only or lack of control. Refer to IMPORTANT NOTE within GENERAL INFORMATIC'N SECTION of this label.) For ground applications, use a minimum of 10 gals. of water per acre. For aerial applications, use a minimum of 5 gals. of water per acre. See "Application Procedures" for additional information.

Establishment of perennial range grasses in West (CA, ID, NV, OR, UT, WA)

Apply $13/_5$ to 2 pts. per acre in fall after rains begin but before ground freezes. Perennial range grass may be seeded when rain begins the next fall following treatment. Plant in deep furrows such as those made by a deep furrow rangeland drill. Treated areas may be grazed 7 months after seeding. However, to provide sufficient time for establishment of desirable range grasses, treated areas should not be grazed until the fall following seeding.

Renovation of existing stands of perennial range grasses Central Great Plains (CO, KS, MT, NE, ND, SD, WY): Apply 1 to 2 pts. per acre in fall before ground freezes.

Southwest (AR, KS, LA, MS, NM, OK, TX). Apply 2 pts. per acre in early spring, before regrowth.

Southern Great Plains (OK, TX): Apply 2 pls. per acre in spring before April 30.

West (CA, ID, NV. OA, UT, WA): Do not graze area to be treated for 6 months prior to application. Apply 1 to 1½ pts. per acre by ground equipment in fall before ground freezes.

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rd, pigweeds*, siddleneck, app-(Brassica spp.) awn or poverty in supplied may result of dogbane are ance may result of important N of this label.) its. of water per 5 gals. of water

West (CA, ID,

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gin but before ded when rain deep furrows I drill. Treated wever, to proange grasses, Iall following

nge grasses WY): Apply 1

pls. per acre

icre in spring

to be treated ots, per acre is, Bluegrass and intermediate wheatgrass may be injured by this product at recommended rates.

Note: Do not cut or feed range grass hay. Do not graze treated areas within 7 months following fall application or 3 months following spring application. Apply only once per year. Apply only on neutral to acid soils.

Warm season perennial range grasses — Midwest Switchgrass and Big Bluestem

For control of many annual broadlest and press weeds including sheatstream installs talent, states, and yellow), lambaquandra, pigweed, ragweed, smartweed, and velvetlest.

For ground application use a minimum of 15 gals, of water per acre.

Use only on loam, silt loam, silty clay loam, clay loam, and silty clay soils with at least 1 percent organic matter.

New seeding: Apply 2 qts. per acre after planting but before weeds emerge. Prepare a good, firm seedbed. Plant ½ inch deep with a grassland drill (preferred 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. Clip weeds that escape in July or August. Avoid clipping switchgrass or big bluestem seedlings.

Established stands: Apply 2 qts. per acre in April or early May, before weed emergence.

Note: Do not cut for hay. Do not graze treated areas within 4 months following application at seeding or 3 months following application to established switchgrass or big bluestem. Treat only once per year.

Rotational crops: See "Rotational crops" in Corn section. (*Local resistance may result in suppression only or lack of control. Refer to IMPORTANT NOTE within GENERAL INFORMATION SECTION of this label.)

SUGARCANE

To control many broadleaf and grass weeds, such as amaranths', crabgrass, fireweed, Flora's paintbrush, foxtails', junglerice', and wiregrass, apply 2 to 4 qts. per acre at the time of planting or rationing, but before emergence of sugarcane. Broadcast by air in a minimum of 5 gallons of spray per acre, or broadcast



or band by ground equipment in a minimum of 20 gallons of spray per acre, unless otherwise indicated. One additional application may be made over sugarcane as it emerges, and two additional applications may be made interline after emergence as directed sprays. Where needed, repeat treatments may be applied broadcast, band, or Interline as suggested with the final application being made prior to close-in. Do not exceed the rate of ATRAZINE 4L recommended for any one crop of sugarcane.

Note: Where high rates of ATRAZINE 4L are used alone, apply in a minimum of 1 qt. of water for each 1 qt. of ATRAZINE 4L applied per acre.

Aerial Application: Apply at a maximum height of 10 feet, 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 ATRAZINE 4L alone by aircraft at a minimum upwind distance of 400 feet from sensitive plants.

('Local resistance may result in suppression only or lack of control. Refer to IMPORTANT NOTE within GENERAL INFORMATION SECTION of this label.)

FLORIDA

To control emerged pellitory weed, apply 4/5 to 11/5 pts. per acre in at least 40 gallons of water per acre. Apply as a directed spray, by ground equipment, prior to election. Add 4 quarts of surfaction for each 100 gallons of spray. Thoroughly sover the weed toliage.

To control alexandergrass*, large crabgrass, pellitory (artillery) weed, and spiny amaranth*, make application by one of the following methods at planting or ratiooning:

- 1. Apply 4 qts. per acre, preemergence. Make one or two additional applications, as needed, postemergence to sugarcane and weeds, at 2 quarts per acre. Make application before weeds are greater than 1½ inches in height.
- 2. Apply one to three times, as needed, at 2 qts. per acre postemergence to both sugarcane and weeds. Make application before weeds are greater than 1½ inches in height.

LOUISIANA

To control annual weeds during summer fallow period, apply 2 qts. per acre to weed free beds, immediately after beds are formed. After planting, follow normal weed control.

Precautions: (1) Do'not apply more than 10 quarts per acre to any one sugarcane crop. (2) If applying 2 quarts per acre during summer fallow period, do not apply more than 4 quarts per acre during the remainder of the growing season.

TEXAS

To control barnyardgrass, pigweed, purstane, and sunflower, in plant or ration sugarcane, apply preemergence at 4 qts. per acre. Make one or two additional applications, as needed, at 3 qts. per acre postemergence to sugarcane and weeds.

To achieve best results when weeds are emerged, add a nonionic surfactant at a concentration of 2 ats. per 100 gattons of spray and apply before the weeds are greater than 11/2 inches in height.

(*Local resistance may result in suppression only or lack of control. Refer to IMPORTANT NOTE within GENERAL INFORMATION SECTION of this label.)

Precautions: (1) Sugarcane may be injured when under mosture stress, when soil is of low absorptive capacity, or when and is first planted to sugarcane. (2) Do not apply after classing. (3) Do not apply more than 10 quarts par acre to any one crop of

To control purslane, Spanishneedles, annual grasses, amual bloweed, ageratom, ameranth, rattlepod, Flora's paintbrush, fireweed, spurge, indigo, and papalo, apply up to 5% qls. per acre as a branket spray after planting or following harvest. Additional blanket or interspace applications of up to 13/5 qls. per acre pray be made at 1 to 2 month intervals as needed, prior to differentiatic. Apply in 20 to 40 gallons of water to assure thorough coverage.

(*Local resistance may result in suppression only of lack of control. Refer to IMPORTANT NOTE within GENERAL INFORMATION SECTION of this label.)



or band by ground equipment in a minimum of 20 gallons of spray per acre, unless otherwise indicated. One additional application may be made over sugarcane as it emerges, and two additional applications may be made interline after emergence as directed sprays. Where needed, repeat treatments may be applied broadcast, band, or interline as suggested with the final application being made prior to close-in. Do not exceed the rate of ATRAZINE 4L recommended for any one crop of sugarcane.

Note: Where high rates of ATRAZINE 4L are used alone, apply in a minimum of 1 qt. of water for each 1 qt. of ATRAZINE 4L applied per acre.

Aerial Application: Apply at a maximum height of 10 feet, 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 ATRAZINE 4L alone by aircraft at a minimum upwind distance of 400 feet from sensitive plants.

('Local resistance may result in suppression only or lack of control. Refer to IMPORTANT NOTE within GENERAL INFORMATION SECTION of this label.)

FLORIDA

To control emerged pellitory weed, apply 4/5 to 11/6 pts. per acre in at least 40 gallons of water per acre. Apply as a directed spray, by pround equipment prior to elected spray, tank for each 100 gallons of spray. Theroughly south the west lotings.

To control alexandergrass*, large crabgrass, pellitory (artillery) weed, and spiny amaranth*, make application by one of the following methods at planting or rateoning:

- 1. Apply 4 qts. per acre, preemergence. Make one or two additional applications, as needed, postemergence to sugarcane and weeds, at 2 quarts per acre. Make application before weeds are greater than 1½ inches in height.
- 2. Apply one to three times, as needed, at 2 qts. per acre postemergence to both sugarcane and weeds. Make application before weeds are greater than 1½ Inches in height.

LOUISIANA

To control annual weeds during summer fallow period, apply 2 qts. per acre to weed free beds, immediately after beds are formed. After planting, follow normal weed control.

Precautions: (1) Do not apply more than 10 quarts per acre to any one sugarcane crop. (2) If applying 2 quarts per acre during summer fallow period, do not apply more than 4 quarts per acre during the remainder of the growing season.

TEXAS

To control barnyardgrass*, pigweed*, purslane, and sunflower, in plant or ration sugarcane, apply preemergence at 4 qts. per acre. Make one or two additional applications, as needed, at 3 qts. per acre postemergence to sugarcane and weeds.

To achieve best results when weeds-are emerged, add a nonionic surfactant at a concentration of 2 ats. per 100 gattons of spray and apply before the weeds are greater than 11/2 mohes in height.

('Local resistance may result in suppression only or lack of control. Refer to IMPORTANT NOTE within GENERAL INFORMATION SECTION of this label.)

Precautions: (1) Sugarcane may be injured when under mosture stress, when soil is of low absorptive capacity, or when and is first planted to sugarcane. (2) Do not apply after clessing. (3) Do not apply more than 10 quarts par acre to any one erop of

To control pursiane spanishneedles, annual grasses, arnual blooweed, ageratom, amaranth, rattlepod, Flora's paintbrush, fireweed, spurge, indigo, and papalo, apply up to 61/s qls. per acre as a blanket spray after planting or following harvest. Additional blanket or interspace applications of up to 13/s qls. per acre may be made at 1 to 2 month intervals as needed, prior to differentiation. Apply in 20 to 40 gallons of water to assure thorough coverage.

(*Local resistance may result in suppression only of lack of control. Refer to IMPORTANT NOTE within GENERAL INFORMATION SECTION of this label.)



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Precautions (1) Do not apply more than 10 quarts per acre to any one sugarcane crop. (2) If applying 2 quarts per acre during summer fallow period, do not apply more than 4 quarts per acre during the remainder of the growing season.

per acre to er acre durl quarts per

YEXAS

To control bernyardgrass, pigweed, pursizee, and sunflower, in plant or ration sugarcane, apply preemergence at 4 qts. per acre. Make one or two additional applications, as needed, at 3 qts per acre postemergence to sugarcane and weeds.

I sunflower, it 4 qrs. per needed, at wants.

To achieve best results when weeds are emerged, add a nogionic surfactant at a concentration of 2 dts. per 100 gallons of spray and apply belong the weeds are greater than 1½ inches in height.

11/2 inches

NFORMA

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(Local resistance may result in suppression only or lack of control. Refer to IMPORTANT NOTE within GENERAL INFORMA-TION SECTION of this label.)

ir moisture entand is estrip. (3) Precautions: (1) Sugarcañé may be injured when under moisture stress, when soil is of low absorbtive capacity, or when land is first planted to sugarcane (2) Do not apply after close in: (3) Do not apply more finañ 1/2 quarts per acre to any one crop of sugarcañe.

PINEAPPLE

s, armual sintbrush, /s qis. per rvest. Ad/s qis. per lea, prior
/s assure

To control purslane, Spanishneedles, annual grasses, annual bindweed, ageratum, amaranth, rattlepod, Flora's paintbrush, fireweed, spurge, indigo, and papalo, apply up to 62/s qts. per acre as a blanket spray after planting or following harvest. Additional blanket or interspace applications of up to 13/s qts. per acre may be made at 1 to 2 month intervals as needed, prior to differentiation. Apply in 20 to 40 gallons of water to assure thorough coverage.

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("Local resistance may result in suppression only or lack of control. Refer to IMPORTANT NOTE within GENERAL INFORMA-TION SECTION of this label.)



230+25

Apply at the rates indicated in the table below:

Soil Texture	Broadcast Rate Per Acre	Application Timing
Muck or Peat	4 qts.	Old Beds: Within 2 days after lifting sod. New Beds: 3 to 4 days after sprigging or plugging.
Sandy Soil	2 qts.	Old Beds: Within 2 days after lifting sod. New Beds: 7 to 10 days after sprigging or plugging.

If weeds regrow, apply an additional 2 qts. per acre on muck or peat, or 1 qt. per acre on sandy soil.

PRECAUTIONS: (1) Do not apply within 30 days before cutting, or lifting. (2) Do not apply in combination with surfactants or other; spray additives. (3) Use only on turfgrass that is reasonably free of insect, nematode, and disease infestations. (4) On newly sprigged turfgrass, temporary slowing of growth may follow application.

TURFGRASS FOR FAIRWAYS, LAWNS, SOD PRODUCTION (in states other than Florida) and SIMILAR AREAS

BERMUDAGRASS, CENTIPEDEGRASS, ST. AUGUSTINE-GRASS, AND ZOYSIA GRASS.

To control annual bluegrass*, burclover, carpet burweed, chickweed, corn speedwell, henbit, hop clover, and spurweed, make application after October 1, prior to emergence of winter annual weeds. Annual bluegrass will be controlled even if it is emerged at time of treatment. To control summer annual weeds such as barnyardgrass*, witchgrass* (Panicum capillare), yellow

o not apply more than 30 qts. (7.5 gallons) (2) Repeated monthly applications to plant lant growth and celay fruiting.

y within 45 days of fruit harvest or forage to be fed to livestock.

MACADAMIA NUTS

control of many broadleaf and grass weeds is, foxtall, wiregrass, Flora's paintbrush, id fireweed, apply 2 to 4 qts. per acre before necessary. Do not apply when nuts are on harvest period. Do not apply by air.

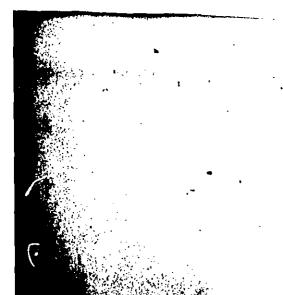
GUAVA

nany annual broadleaf and grass weeds, inursiane, scarlet pimpernel, Spanishneedles bly only on established plantings, at least 18 preemergence or early postemergence to d spray at 2 to 4 qts. per acre in 20 to 50 x. When applying postemergence, the use greater spray volume (80 to 100 gallons of) may enhance weed control.

ow spray to come into contact with foliage apply more frequently than at 4 month interally more than 8 quarts of ATRAZINE 4L per

F GRASSES FOR SOD (FLORIDA ONLY) RASS, CENTIPEDEGRASS, AND ZOYSIA

ost annual broadleaf and grass weeds such witchgrass* (Panicum Capillare), yellow tail*, wild oats, large (hairy) crabgrass, glory, lambsquarters*, ragweed, nightshade*, rd. (*Local resistance may result in suppressentrol. Refer to IMPORTANT NOTE within AATION SECTION of this label.)





velvetleaf*, morningglory, lambsquarters*, ragweed, nightshade, pursiane and mustard apply 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 sq. ft. ("Local resistance may result in suppression only or lack of control. Refer to IMPORTANT NOTE within GENERAL INFORMATION SECTION of this label.) In areas where the major weed is annual bluegrass, apply 1 qt. per acre (0.75 ft. oz. per 1,000 sq. ft.). To control the other weeds listed above, apply 2 qts. per acre (1.5 ft. oz. per 1,000 sq. ft.). Do not apply more than 1 qt. per treatment on newly springed turing a property of the per acre of the per treatment on newly springed turing a property of the per treatment on newly springed turing a property of the per treatment on newly springed.

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For continued summer annual weed control, apply another 1 qt. per acre at least 30 days after the previous application, but not after April 15. Do not make more than 2 applications of this product per year.

Precautions: On newly sprigged turgrass and hybrid bermudagrass, temporary slowing of growth and yellowing may occur following application. To avoid turf injury, (1) Use only on turgrass that is reasonably free of insect, nematode, and disease infestations. (2) Do not use on golf greens. (3) Do not use north of NC (may be used in Virginia Coastal Plains) or west of the high rainfall areas of eastern OK and eastern TX): (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. (6) Do not overseed with desirable turgrass within 4 months before or 6 months after treatment;

Note: Do not graze or feed turf clippings to animals.

CONIFERS

For control of annual broadleaf and grass weeds such as barnyardgrass, witchgrass (Panicum capillare), yellow loxtall, green foxtall, wild oats, large (hairy) crabgrass, velvetleaf, morningglory, lambsquarters, ragweed, nightshade, purslane, and mustard, in Douglas fir, grand fir, noble fir, white fir, Austrian pine, bishop pine, Jeffrey pine, knobcone pine, lobiolly pine, lodgepode pine (shore pine), monterey pine, ponderosa pine, Scotch pine, slash pine, blue spruce, and Silka spruce.

BEST AVAILANT

Hard-to-kill annual and many perennial broadleaf and grass weeds (including bluegrass', burdock, Canada thistle', dogfennel, orchardgrass*, plantain, quackgrass*, purpletop, redtop, and smooth brome): Broadcast 10 to 20 qts. per acre.

Hard-to-kill blennial and perennial weeds (including buil thistle and sowthistle): Broadcast 20 to 40 cts. per acre.

For longer residual control in regions of high rainfall and a long growing season, broadcast 20 to 40 qts. per acre.

For small areas, 0.28 pt. per 1,000 sq. ft. is equivalent to 10 qts. per acre.

(*Local resistance may result in suppression only or lack of control. Refer to IMPORTANT NOTE within GENERAL INFORMA-TION SECTION of this label.)

ROADSIDES

For control of certain annual weeds such as cheatgrass (downy brome, chess), common (annual) broomweed, little barley, medusahead, sagewort, and tumble mustard in established perennial grasses along roadsides in CO, KS, MT, NE, ND, SD, and WY. Apply 2 pts. per acre in a minimum of 10 gallons of water per ground equipment. Apply in the fall before spring thawing, but before established grasses green up and weeds emerge. Apply only once per year. Following application, temporary discoloration or other forms of injury may occur to the peren-Mreakuliakai (1) de noi grase treases areas, (4) se not out at

leed roadside grass for hay.

AAtrex® trademark of CIBA-GEIGY for atrazine. Concept trademark of CIBA-GEIGY. Dual® trademark of CIBA-GEIGY. Igran® trademark of CIBA-GEIGY for terbutryn U.S. Patent No. 3,634,062

X-77º trademark of KALO Agricultural Chemicals, Inc.

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