ACCEPTED

JUN 1 1 1987

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as assended, for the pesticide registered under EPA Reg. No. 777-25,

ATRASIDE 80W

Atraside 80W is a Wettable Powder

For Season-Long Weed Control in Corn and Sorghum.

For Weed Control in Certain Other Crops; in Noncrop Areas; and Industrial Sites.

ACTIVE INGREDIENTS	
Atrazine (2-chloro-4-ethylamino-6-	
isopr nylamino-s-triazine)	76.8%
Relate Compounds	3.2%
INERT INGREDIENTS	20.0%
TOTAL	100.0%

KEEP OUT OF REACH OF CHILDREN CAUTION STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Contact your local poison control center, hospital, or physician. If the person is unconscious, maintain breathing and heartbeat (Cardiopulmonary resuscitation). If the patient is consc. us and alert, induce vomiting (syrup of ipecac or stimulate the back of the throat with a finger). NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

IF INHALED: Remove victim to fresh air and apply respiration if indicated.

IF ON SKIN: Remove contaminated clothing and wash with soap and water.

IF IN EYES: Flush with plenty of water. Get medical attention if irritation persists.

persists.	
SEE LEFT PANEL FOR ADDITIONAL PRECAUTION	NARY STATEMENTS.
EPA Reg. No. 9779-254 EPA Est. No. 9779-	Net Contents: Gallons
	Liters
at at la links	•••

(Riverside "R")

Manufactured by:

Riverside/Terra Corporation A subsidiary of Terra International, Inc. Terra Centre, 600 Fourth Street Sioux City, Iowa 51101

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PRECAUTIONARY STATEMENTS CAUTION HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed, inhaled, or absorbed through skin. Do not breathe dust or spray mist. Avoid contact with eyes, skin or clothing. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling.

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.

Atrazine leaches readily and accepted label rates have been found to result in contamination of water supplies by way of groundwater. Therefore users are advised to avoid use of atrazine in well drained soils, particularly in areas having high groundwater tables.

NOTE TO PHYSICIANS: There is no specific antidote for atrazine. If this product is ingested, induce emesis or lavage stomach. The use of an aqueous slurry of activated charcoal may be considered.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water or wetlands. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This product may not be used against any pests not named on the label.

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 "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 re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

NOTICE TO CROP OWNERS

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, in case of accidental exposure follow the information given under "STATEMENT OF PRACTICAL TREATMENT" and have exposed person(s) see a physician When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is a reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information:

CAUTION

Area treated with Atrazine on (date). Do not enter without appropriate protective clothing until sprays have died in case of accidental exposure, refer to the "STATEMENT OF PRACTICAL TREATMENT" on the label.

STORAGE AND DISPOSAL

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DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.

STORAGE

Store in a dry location away from children, animals, foods, feeds, seeds or other agricultural chemicals.

Handle in accordance with information given under "Precautionary State-ments."

In the event of spillage, scrape up spillage. If spillage is not suitable for use, dispose of in accordance with information given under "DISPOSAL." Repackage and relabel useable product in a sound container.

In case of fire or other emergency, report at once by toll-free telephone to 800-424-9300.

DISPOSAL

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 and local authorities, by burning. If burned, stay out of smoke.

READ ENTIRE LABEL BEFORE USING THIS PRODUCT GENERAL INFORMATION

This herbicide controls many annual broadleaf and grass weeds in corn, sorghum, sugarcane, and certain other crops specified on this label. It is also effective in noncrop areas and industrial sites for control of most annual and many perennial broadleaf and grass weeds. This product may be applied before or after weeds emerge.

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. Where this is known or suspected, we recommend the use of this product in combination with other registered herbicides which are not triazines. Consult with your State Agricultural Extension Service:

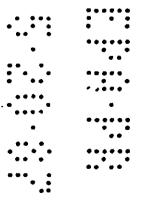
Since this product acts mainly through root absorption, its effectiveness depends on moisture to move it into the root zone. If weeds develop, a shallow cultivation or rotary hoeing will generally result in better weed control.

This product is noncorrosive to equipment and metal surfaces, nonflam- •• mable, and has low electrical conductivity.

Avoid using near adjacent desirable plants or in greenhouses, or injury may occur.

Where the use directions give a range of rates, use the lower rate on coarse-textured soil and soil high in organic matter.

Note: Riverside/Terra Corporation does not recommend applications in combination with other herbicides or oils, except as specifically described on the la......



NOTICE: 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 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 Riverside/Terra Corporation or the Seller. All such risks shall be assumed by the Buyer.

Riverside/Terra Corporation warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not foreseeable to Riverside/Terra Corporation and buyer as umes the risk of any such use. Riverside/Terra Corporation shall not be responsible for incidental damages, if any, resulting from a breach of warranty.

Application Procedures

Ground Application: Use conventional ground sprayers equipped with nozzles that provide accurate and uniform application. Be certain that uozzles are uniformly spaced and are the same size. Calibrate sprayer before use and recalibrate at the start of each season and when changing carriers. Unless otherwise specified, use a minimum of 10 gallons of spray mixture per acre for all preplant, preemergence, and postemergence applications (with or without oll or surfactant) with ground equipment.

Use a pump with capacity to (1) maintain 35-40 psl at nozzles, (2) provide sufficient agitation in tank to keep mixture in suspensions, and (3) to provide a minimum of 20% bypass at all times. Use centrifugal pumps which provide propeller shear action for dispersing and mixing this product. The pump should provide a minimum of 10 gallons per minute per 100 gallons tank size circulated through—correctly positioned sparger tube or jets.

Use screens to protect the pump and to prevent nozzles from clogging. Screens placed on the suction side of the pump should be 16-mesh or coarser. Do not place a screen in the recirculation line. Use 50-mesh or coarser screens between the pump and boom, and where required, at the nozzles. Check nozzle manufacturer's recommendations.

For band applications, calculate amount of he applied per acre as follows:

tow width in inches

X broadcast rafe per acre

amount needed per acre of field

Aerial Application: Use aerial application only where broadcast applications are specified. Apply in a minimum of 1 gal. of water for each 1 lb. of RIVERSIDE ATRASIDE 80W applied per acre. For postemergence treatments on corn and sorghum, apply recommended rate in a minimum of 2 gallons of water per acre. Avoid applications under 2 daditions where uniform coverage cannot be obtained or where excessive spray drift has occur.

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

Application in Water Or Liquid Fertilizer: Nitrogen solution or complete liquid fertilizer may replace all or part of the water as a carrier for preemergence or preplant ground application on corn and sorghum. Check the compatibility of this expendence with liquid fertilizer and/or nitrogen solution as shown below before use. Do not apply in nitrogen solution or complete liquid fertilizer after corn or sorghum emerges, except as noted under Lay-by Treatment for corn or crop injury may occur.



io determine the compatibility of RIVERSIDE ATRASIDE 80M, alone or in tank mixtures, with fluid fertilizer, pour the products into a small container of fluid fertilizer in the proportions shown below. For different spray volume or herbicide rate, make appropriate changes in the ingredients.

For each pound of RIVERSIDE ATRASIDE80W or other dry product to be applied per acre, add I level teaspoon or 5 millilliters of the product to one pint of fluid fertilizer (assuming a volume of 25 gallons per acre).

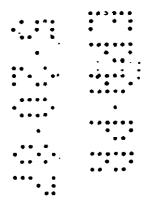
For each pint of a liquid or flowable product to be applied per acre, add 0.5 teaspoon or 2.5 milliliters of the product to one pint of fluid fertilizer (assuming a volume of 25 gallons per acre).

After thorough mixing, let stand 5 minutes. If the herbicide/fertilizer combination remains mixed, or can be remixed readily, the mixture is compatible and can be sprayed. If it is not compatible, make a water sturry with the herbicide before adding fertilizer and use the mixture only if this test shows it is compatible.

Application in Water Plus EmulsIflable Oll or Oll Concentrate: Adding emulsIflable oil or oil concentrate, such as Prime Oil or Prime Oil II, to postemergence water-based sprays on corn and sorghum may improve wead control. However, under certain conditions, the use of either type of oil may seriously injure the crop. To minimize this possibility, observe the following directions.

Use a crop oil containing 1-2% sultable emulsifier, or a sultable crop oil concentrate containing not more than 20% emulsifier or surfactant blend. 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 any other materials, or crop injury or sprayer clogging may result. (2) fill tank 1/4 full with clean water, nitr jen solution, or complete liquid fertilizer. (3) Start agitation. (4) Be certain that the agitation system is working properly and creates a rippling or rolling action on the liquid surface. (5) Pour product directly from bag into tank. (6) Continue filling tank until 90% full. Increase agitation if necessary to maintain surface action. (7) Add emulsifiable oil, oil concentrate, or tank mix herbicide(s) after this product is thoroughly suspended. (8) finish filling tank. (9) Emply tank as completely as possible before refilling to prevent buildup of oil or emulsifiable concentrate residue. Maintain agitation to avoid separation of materiats. (10) If an oil or emulsifiable concentrate film starts to build up in tank, drain it and clean with strong detergent solution or solvent. (11) Clean spraye thoroughly immediately after use by flushing system with water containing a determent.



RIVERSIDE ATRASIDE SOW Applied Alone - Corn or Grain Sorghum

Preplant Incorporated or Preemergence Weeds Controlled:

Barnyardgrass (watergrass) glant foxtall green foxtall large (halry) crabgross lambsquarters wild oats

cock!ebur groundcherry Limsonweed kochla annual morningglury

nightsnade plaweed purslane ragweed velvetleaf (buttonwaed)

mustards

(Panicum capillara) yellow foxtall

Postemergence with Emulsifiable () II or OII Concentrata in Water Weeds Controlled:

annual morningglory cocklebur **iimsonweed** lambsquarters mustards

witchgrass

piqweed ragweed smartweed wild buckwheat velvetleaf

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CORN

Preplant (Broadleaf and grass control): Broadcast in spring after plowing at rate in Table 1. Apply before, during, or after final seedbed preparation. If soil is tilled or worked after application, avoid deep incorporation. For best results, apply within two weeks prior to planting.

Preemergence (Broadleaf and grass control): Apply during or shortly after planting before weed emergence, at rate in Table 1.

Postemergence (Broadleaf and grass control): Apply before weeds exceed 1.5 inches in height, at rate in Table 1.

IABLE 1: Broadleaf and Grass Meed Control on Corn*

Soil Texture	Broadcast Rate/A
COARSE	
Sand, loamy sand, sandy loam	2.5 lb.
MEDIUM	
Loam, silt loam, silt, clay loam, sandy clay loam, silty clay loam, sandy clay, or silty clay with low organic matter	3 lb.
FINE	
Loam, silt loam, slit, clay icam, sandy clay loam, slity clay	3.75 lb.
lcam, sandy clay, or silty clay with medium to high organic	• • • • • • • • • • • • • • • • • • • •
matter, and clay (Including the dark prairie soils of the	
Corn Belt)	•
Peat, muck, and high organic clay (apply postemorgence only)	3:16 lb.

*Broadleat control (eastern CO, western KS, western NE, NM, OK Pan Handle, wast TX. and eastern WY). On sand, loamy sand, sandy loam, mild to strongly alkaling soil; **** and all recently leveled soll, apply no more than 1,5 15/A either preplant or preemergence. On other soils in these areas, apply rate in Tablesi for broadlest, and grass control.

Lay-by Treatment (Broadleaf and grass control): Broadcast 1.25-2.5 lb/A hetore weeds. are 1.5 inches tall and corn is 20-30 Inches tall. When using nitrogen solutions, direct the spray to lower 3-4 Inches of cornstalks to avoid corn follage injury.

flable oil per acre for ground application, or 0.5 gal. per acre for serial application, or add 1 qt. of oil concentrate, such as Prime Oil or Prime Oil II, per acre for ground application, or application, or 1 pt. per acre for serial application.

Broadleaf and Grass Control: Broadcast 2.5 lb. per acre plus emulsifiable off or off concentrate after weed emergence, but before weeds reach 1.5 inches in height.

Broadleaf Control: Broadcast 2.4 lb. per acre plus emulsifiable oil or oil concentrate 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.

Precautions for Applications with Emulsifiable Oll or Oll Concentrate:

(1) Do not apply when crop is under stress from prolonged cold, wet wenther, poor fertilizer, or other factors, or when crop is wet and succulent from recent rainfall, or crop injury may occur. (2) inbred lines or any breeding stock may be severely injured by applications with emulsifiable oil or oil concentrate. (3) Adding other insecticides, herbicides, liquid fertilizers, or other materials is not recommended because they may cause compatibility problems or crop injury. (4) Store and handle emulsifiable oil and oil concentrate 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 per season except as recommended for control of yellow nutsedge, quackgrass, and Canada thistie.

Problem Weeds:

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Yellow Nutsedge and Carada Thistle: This roduct will control yellow nutsedge (Cyerus esculentus) and Canada thistle (Cirsium arvense) when applied according to directions. For best results, apply each year until yellow nutsedge or Canada thistle is eliminated or reaches a level of infestation where neither weed is an economic problem. If yellow nutsedge or Canada thistle regrow following last application, c itivate onco.

Four alternative methods of use for control of yellow nutsedge and Canada thistle are listed below in order of preference. If other weed species, such as annual grasses, are also expected, use alternative 2 or 4.

- 1. Broadcast 2.5 lb/A plus I gal. of emulsifiable oil or 1 qt. of oil concentrate. Apply after crop and yellow nutsedge or Canada thistle emerge but before yellow nutsedge maches a height of 3 inches or Canada thistle reaches a height of 6 inches. Reliat application before lay-by (20-30 inches), 10-20 days after the first application.
- 2. Broadcast 2.5 lb/A preplant for control of yellow nutsedge, or broadcast 2.5 lb/A... during or shorly after planting, but prior to crop or weed emergence for control of Canada thistle. Follow with an application of 2.5 lb/A plus igal. of emulsidable oil or 1 qt. of oil concent ateratter corr and weeds emerge, but before yellow nutsedge or Canada thistle in school a height of 6 inches.
- 3. Broadcast 5.1b/A plus I gal. of emulsifiable oil or 1 qt. of oil concentrate after crop emerges, but prior to lay-by (20-30 inches). Apply after yellow nutsedge is 3 inches fall or canada thistle emerge, but before yellow nutsedge is 3 inches fall or canada thistle is 6 inches fall.
- 4. Broadcast 5 lb/A before, during, or shortly after planting, but before the or weed emergence (yellow nutsedge control only).



Note: Do not use emulsifiable oil or oil concentrate when corn is wet or under stress, especially when using 5 lb/A of this product. See Precautions for Applications with Emulsifiable Oil or Oil Concentrate in Water for additional directions.

Quackgrass control on Land Colng Into Corn Production:

Split Application: Broadcast 2.5 lb/A in fall or spring. Plow 1-3 weeks later, Apply a second application at 2.5 lb/A in spring before, during, or after planting, but most annual broadleaf and grass weeds.

Single Application: Broadcast 3.75-5 lb/A in fall or spring. Plow 1-3 weeks later.

Tank Mixtures For Corn

This product may be tank mixed with these he pictures for control of certain broadleaf and grass weeds in corn-

Dual + ORTHO Paraquat CL (paraquat)

Dual + Princep + ORTHO Paraquat CL

Dual + Princep + Roundum

Dual + Princep + Roundup

Rayton of Ramond (Arthurstein Princep + ORTHO Paraquat CL

Bexton or Ramrod (propachior)

Bladex

Princep + Roundup
Sutan

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 or products used in a particular tank mix.

Note: When labels of the above herbicides refer to atrazine 4L or atrazine 90 dry flowable, use equivalent rates of RIVERSIDE ATRASIDE 80W. One quart of 4L equals 1.25 lb. of 80W. One lb. of 90 dry flowable equals 1.125 lb. of 80W.

Princep 80V, Princep 4L(4LC), or Princep Caliber 90
In addition to the weeds listed under RIVERSIDE ATRASIDE 80V Applied Alone - Cornand Grain Sorghum - Preplant or Preemergence, this combination controls crabgrass, fall panicum, and carpetweed.

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

Preplant: Apply in spring during or after final seedbed prepartion. If soil is tilled or worked after application, avoid deep incorporation. For best results, apply within

Preemergence: Apply during or shortly after planting, but before crop and years this go

Refer to CORII sections of this label and to Princep 80W, Princep Caliber 10, or Princep 4L(4LC) labels for further directions, limitations, and precautions.

TABLE 2: Tank Mixtures with Princep on Corn

	BROADCAST RATE PER ACRE			
	1:1 Satio		1:2 Ratio	
Soil Texture	This Product	Princep 80W1	This	Princep 80W
Sand, loamy sand, sandy loam	1.25 16	1.25 16	0.83 16	1.67 16
Loam, silt loam, sllt, clay loam, sandy clay loam, sllty clay loam. sandy clay, or sllty clay with low organic matter	1.5 16	1.5 16	1 16	2 lb
Loam, silt loam, silt, clay loam, sandy clay loam, silty clay loam, sandy clay, or silty clay with medium to high organ a matter, and clay (including pack prairie soils of the Corn Belt)	1.8 16	1.8 16	1.2 16	2.4 16

^{&#}x27;For control of most weeds.

Princep 80V, Princep 4E(4EC), or Princep Caliber 90 plus Roundup: Use as tank mixture for preemergence and postemergence control of certain broadleaf 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(4LC), or Princep Caliber 90 plus Paraquat CL: Use as tank mixture with Princep and Paraquat CL to kill existing vegetation and for residual weed control where corn will be planted directly into a cover crop, established sod, or in previous crop residues. Add this product and Princep to water in spray tank, agitating until thoroughly mixed. Then add Paraquat CL and a nonlonic surfactant, uch as X-77°. Continue agitation during application. Broadcast 1.25-2.5 lb. of this product plus 1.25-2.5 lb. Princep 80W (or 2-4 pt. Princep 4L(4LC), or 1.1-2.2 lb. Princep Caliber 90) plus 1-2 pt. Paraquat CL in 20-60 gallons of water per acre. Apply before, during, or after planting, but before corn emerges. Add 0.5 pt. of a nonlonic surfactant, such as X-77, per 100 gallons of spray misture. Use the 2 pt. rate of Paraquat CL 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 labels for this product, Princep, and Paraquat CL.

Precautions for all applications to corn: (1) Do not apply more than 5 lb/A of this product per year. (2) Following harvest, plow (moldboard or disk-plow) and thoroughly till soil in fall or spring to minimize possible injury to spring-seeded rotational crops, regardless of rate used.

tlote for all application to corn. Do not graze or feed forage from treated creas for 21 days following application.

^{&#}x27;For control of expected heavy infestations of crabgrass and fall panicum.

When using Princepade ar 90 or Princep 4L(4LC), use equivalent rates. One 16. of Princep 80V equals 0.5 lb. of Princep Caliber 90 or 1.6 pt. of Princep 4L(4LC).

'ROTATIONAL CROPS: (1) Do not rotate to any crop except corn or sorghum until the following year, or injury may occur. (2) If applied after June 10, do not rotate with crops other than corn or sorghum the next year, or crop injury may occur. (3) If the broadcast rate, or equivalent band application rate, exceeds 3.75 lb/A of RIVERSIDE ATRASIDE 80W or 3.75 16/A or RIVERSIDE ATRASIDE 80W plus Princep 80W (or equivalent of another Princep formulation), 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 only when corn or sorghum is to follow corn or sorghum or when a crop of untreated corn or sorghum is to precede other rotational crops. (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 2.5 lb/A or equivalent band application rate, or soybean injury may occur. (6) Injury may occur to soybeans planted the year following application on soils having a calcareous surface layer. (7) Do not plant sugar beets, tobacco, vegetables (including dry beans), springseeded small grains, or small-seeded legumes and grasses the year following application, or injury may occur.

SORGHUM AND SORGHUM-SUDAN HYBRIDS (Grain and Forage Types)

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Preplant (Broadleaf and grass control): Broadcast In spring after plowing at rate in Table 3. Apply before, during, or after final seedbed preparation. If soil is tilled or worked siter application, avoid deep incorporation. For best results, apply within two weeks prior to planting.

Preemergence (Broadleaf and grass control): Apply during or shortly after planting, but prior to weed or crop emergence at rate in Table 3.

TABLE 3: Preplant and Preemergence Broadleaf and Grass Weed Control in Sorghum

ORGANIC
MATTER

BROADCAST RATE PER ACRE

COARSE

Sand, loamy sand,
sandy loam

Any Level*

DO NOT USE
(except for preemergence

sandy loam

MEDIUM AND FINE

Leam, silt loam, silt, clay loam, sandy clay loam, silty clay loam, sandy clay, silty clay, clay

More than 1.5\$

1-1.5\$

2-2.5 lb.

2.5-3 lb.

Do not apply preplant in AL, AR, FL, GA, LA, MS, NC, NM, OK, SC, TN, or TX, Do not apply preemergence in NM, OK, or TX, except in northeast OK, and the TX buil Coast.

In case of planting failure, sorghum or corn may be replanted. Do not make a second broadcast application, or injury may occur. If originally applied in a bard and sorghum or corn is replanted in untreated row middles, this product may be applied in a band to the second planting.

Preemergence broadleaf weed control in furrow irrigated bedded sorghum (\$7.5md CA*** only): for preemergence control of many broadleaf weeds, broadcast 1-1.5 \$\frac{1}{2}\$, per acre after bed preparation during or after planting, but before sorghum and weeds emerge and before the rirst furrow irrigation. Follow with several regular irrigations, making sure to thoroughly wet all soil.

1 4 9 1 ATAILABLE DE

Precautions for Preemergence Application to Furrow 'rrigated Bedded Sorghum.in AZ and CA: To avoid possible sorghum injury, do not use on sand or loamy sand soll or on sorghum planted in furrows. Applications to sorghum growing on alkali soils or where cuts, fills, or erosion have exposed calcareous or alkali subsolls may cause crop injury. In case of crop failure, do not reptant sorghum for 8 months following application. Corn may be planted immediately.

Postemergence (Broadleaf and grass control): Apply at rate in Table 4 before weeds exceed 1.5 inches in height. Apply up to "close-in".

TABLE 4: Postemergence Broadleaf and Grass Weed Control In Sorghum

Soll Texture	Minimum Sorghum Height at Treatment	Broadcast Rate Per Acre		
and or loamy sand	DO NOT U	DO NOT USE		
Sandy Toam	ľ	See Directions For Postemergence Broadleaf Weed Control.		
Silt loam to sandy clay loam	Completely Emerged	2.5-3 lh.		
Olton and Pullman clay soll	6 Inches	2.5-3 lb.		
Silty clay loam and finer textured soil	Completely Emerged	3.75 lb.		

Postemergence Broadleaf Weed Control with Englishable Oll or Oll Concentrate in Water Broadcast 1.5 lb/A for control of many broadleaf weeds. Apply before pigweed and lambsquarters reach 6 inches in height and before all other weeds reach 4 inches in height. In CO, western KS, NM, OK, TX, and desert regions of AZ and CA, apply when sorghum is 6-10 inches in height, but before it reaches boot stage. In all other areas, apply after sorghum reaches the 3-leaf stage. Add 1 gal. of emulsifiable oil per acre for ground application and 0.5 gal. per acre for aerial application, or add 1 qt. per acre of oll concentrate, such as Primo Oll or Prime Oll il, for ground application, or 1 pt/A for aerial application. A cultivation may be necessary if all weeds are not controlled or If weeds regrow.

For the list of weeds controlled, see RIVERSIDE ATRASIDE 80W Applied Alone - Corn or Grain Sorghum - Postemergence with Emulsifiable Oll or Oll Concentrate.

Precautions for Applications with Emulaifiable Oil or Oil Concentrate in Water: Sca "Pracoulisms to applications with Emulaifiable Oil or Oil Concentrate in Water" in Corn section.

Postemergence Broadleaf Weed Control with Surfactant (CO, western KS, NA, DK, TX, **** and desert regions of AZ and CA only): Broadcast 1.5 Jb/A plus 0.75-1.5 t.: Of surfactant after sorghum reaches 6 inches in height, but before weeds exceed 1.5 inches in height. Apply only on sandy loam and finer textured soil.

Precautions for All Applications to Sorghum: (1) Heavy rain immediately in bying application tends to cause excessive concentrations of herbicide in sead
turrow, resulting in possible crop injury. Do not apply to furrow-planted.sprghum until furrows are leveled (plowed in). Level deep planter marks or seed
furrows before application. (2) Application to sorghum growing under sfrees
caused by minor element deficiency or to sorghum growing on highly calcareous
soil mar result in crop injury. (3) Following harvest, plow (oluboard or
disk-plow) and thoroughly till soil in fall or spring to minimize possible
injury to spring-seeded rotational crops, regardless of rate used. (4) injury
may occur if both this herbicide, preplant or preemergence, and an at-planting
systemic insertlete applied in-furrow are used.

when by not graze on feed forage from treated areas for 21 days following application.

Rotational Crops: See "Rotational Crops" in Corn section

TANK MIXTURES FOR GRAIN SORGHUM

ignor." ACM: the as tank mixture for control of certain broadleaf and grass weeds in grain sorghum. Refer to tigran our racer for air differences, weeds controlled, precautions, and limitations.

Dual 8E: Use as tank mixture with Dual 8E for control of those weeds listed on the Dual label, as well as on this tabel. Use this tank mixture only on Concep'-treated sorghum seed. Refer to the Dual 8E label for all directions, precautions, and limitations.

RIVERSIDE ATRASIDE BOW Alone - Chemical Fallow

Wheat-Sorghum-Fallow: To control annual broadleaf and grass weeds following wheat harvest and in the following sorghum crop when grown under minimum tillage, broadcast 3.75 IL/Y to wheat stubble immediately following wheat harvest. If weeds are present at application, remove them with a sweep plow or other suitable implement after application, or use an approved contact herbicide before or after the application of Riverside ATRASIDE 80%. Plant sorghum into wheat stubble the following spring with minimum soll disturbance. 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.

For a list of weeds controlled, see RIVERSIDE ATRASIDE 90W Applied Alone - Corn or Grain Sorghum - Preplant Incorporated or Preemergence.

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

Wheat-Corn-Fallow(KS, NE): This product controls cheatgrass (downy brome, chess), kochia, mustards, pigweed, Russlan thistle, wild lettuce, wild sunflower, and volunteer wheat during period after wheat harvest. Weed control may extend into following corn crop grown under minimum !!!lage.

Follow directions for use, notes and (recautions in the Wheat-Sorghum-Fallow section above, substituting corn for references to sorghum.

Wheat-Fallow-Wheat (CO, KS, MT, NE, ND, SD, and WY): For preemergence control of cheatgrass (downy brome, chess), common lambsquarters, field pennycress, kochla, mustard, Russian thistle, wild lettuce and suppression of volunteer wheat during fallow period of a wheat-fallow-wheat rotations, broadcast 0.6-1.25 lb/A on all solls, except those listed under Precautions. For control of pigweed and wild sunflower, use the higher rate. Apply to stubble ground. Treat only once during same raflow period.

TANK MIXTURES FOR CHEMICAL FALLOW

Wheat-Sorghum-Fallow on Wheat-Corn-Fallow (KS, NE):

Igran 800: Use a tank mixture for control of certain broadleaf and grass weeds in the wheat-sorghum-tallow or wheat-corn-fallow notations. Refer to Igran 80W label for directions, weeds controlled, precautions, and limitations.



Paraquat CL: If weeds are present at application, a tank mix with Paraquat CL may be used. Broadcast 3.75 lb of RIVERSIDE ATRASIDE 80W plus 1-2 pt of Paraquat CL in 20-60 gal. of water per acre by ground equipment. Add 0.5-1 pt. of a nonionic surfactant, such as X-77, per 100 gal. of spray mixture. Add RIVERSIDE ATRASIDE 80W to spray tank first and thoroughly mix with water. Then add Paraquat CL, followed by surfactant. Use the 2 pt. rate of Paraquat CL 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 same fallows: The studies to Paraquat CL label for further directions precautions, and limitations.

Wheat-Fallow-Wheat (CO, KS, MT, NE, ND, SD, and MY)
Igran 80W: Use as tank mixture for control of certain broadleaf and grass weeds in wheat-fallow-wheat rotations. Refer to Igran 80W tabel for directions, weeds controlled precautions, and limitations.

Paraquat CL: If weeds are present at application, a tank mix with Paraquat CL may be used. Broadcast 0.6-1.25 lb of RIVERSIDE ATRASIDE 80W plus 1-2 pt of Paraquat CL in 20-60 gal. of water per acre by ground equipment, Add 0.5-1 pt. of a nonlonic surfactant, such as X-77, per 100 gal. of spray mixture. Add RIVERSIDE ATRASIDE 80W spray tank first and thoroughly mix with water. Then add Paraquat CL, followed by surfactant. Use the 2 pt. rate of Paraquat CL 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 same fallow period. Refer to Paraquat CL label for further directions, precautions, and limitations.

It weeds are present at application and this product is used alone, use either an approved contact herbicide before or after treatment, or tillage after treatment.

use tillage to control weeds which escape during fallow period. Illi before planting. For this product applied alone or in tank mixture with Faraquat CL, plant at least 2 inches deep and 12 months or more after application.

Precautions: (1) Do not use on sand soll. (2) Do not treat eroded hillsides, callche and rocky outcroppings, or exposed calcareous subsoil. (3) Do not treat soils of the Rosebud and Canyon Series in western NE and adjoining counties in CO and WY. (4) Do not treat solls with calcareous surface layers. (5) Avoid spray overlap.

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

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 psl, 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 RIVERSIDE ATRASIDE 4L alone by aircraft at a minimum upwind distance of 400 ft..... from sensitive plants, or apply RIVERSIDE ATRASIDE 80W + Igran 80W at a minimum upwind distance of 500 ft. from sensitive plants. When applying RIVERSIDE ATRASIDE 80W and Igran 80W by aircraft, use a minimum of 5 gal. of water per acre.

PROSO MILLET

For proplant or preemergence control of foxtalls, kochla, common lambsquarrers, redroot pigweed, Russian thistle, silmleaf lambsquarters and spotted scurre, apply 0.6-1.25 fb/A on soils with less than 2% organic matter, or apply 1.25-2.5 il.// on soils with 2% or higher organic matter.

Precaution: Make only one application per year.

Rotational Crops: See "Rotational Crops" in Corn section.

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.

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. above vegetation, 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 RIVERSIDE ATRASIDE 80M by aircraft at a minimum upwind distance of 400 ft. from sensitive plants.

Establishment of perennial range grasses in West (CA, ID, NV, OR, UT, WA): Broad-cast 1-1.25 Ib. 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): Broadcast 0.6-1.25 lb. per acre in fall before ground freezes.

Southern Great Plains (OK, TX): Broadcast 1.25 lb. per acre in spring before April 30.

West (CA, ID, NV, OR, UT, WA): Do not graze area to be treated for 6 months prior to application. Broadcast 0.6-0.9 lb./A by ground equipment in fall before ground freezes.

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.

Warm season perennial range grasses - Midwest 🦠

Switchgrass and Big Bluestem: For control of those weeds listed under RIVERSIDE ATRASIDE 80% Applied Alone - Corn or Grain Sorghum - Preplant Incorporated or Premergence.

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

New seeding: Broadcast 2.5 lb per acre after planting but before weeds emerge. Prepare a good, firm seedbed. Plant 1/2 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. Cilp weeds that escape in July or August. Avoid clipping switchgrass are big bluestem seedlings.

Established stands: Broadcast 2.5 lb per acrein 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 himstem. Treat only once per year.

Rotational crops: See "Rotational-Crops" in Corn section.



St. Augustinegrass, Centipedegrass, and Zoysia Grass

Broadcast 2.5-5 lb. per acre according to soll texture to control those weeds listed under RIVERSIDE ATRASIDE 80W Applied Alone - Corn or Grain Sorghum - Preplant Incorporated on Preemergence.

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Nuck or Peat	ck or Peat 5 lb.	Old beds: Within 2 days after lifting sod.
FIGUR OF TEAT		New beds: 3-4 days after sprigging or plugging.
Sandy Soil 2.5 lb.	2 5 15	Old beds: Within 2 days after lifting sod.
	New beds: 7-10 days after sprigging or plugging.	

If weeds regrow, apply an additional 2.5 lb. per acre on muck or peat, or 1.25 lb. per acre on sandy soil.

Precautions: (1) Do not apply within 30 days prior to cutting or lifting. (2) Do not apply in combination with surfactants or other spray additives, or injury may occur. (3) Do not use worth of NC.

MACADAMIA NUTS

For preemergence control of many broadleaf and grass weeds, including crabgrass, foxtail, wiregrass, Flora's paintbrush, spanishneedles, and fireweed, broadcast 2.5-5 Hz per acre before harvest and before weeds emerge. Repeat as necessary. Do not spray when nuts are on ground during harvest period. Do not apply by air.

PINEAPPLE

For control of purslane, spanishneedles, annual grasses, annual bindweed, ageratum, amaranth, rattlepod, Flora's paintbrush, fireweed, spurge, indigo, and papalo, apply up to 8 lbs./acre as a blanket spray immediately after planting or following harvest. Make additional blanket or interspace applications of up to 2 lbs./acre at 1-2 month intervals as needed prior to differentiation. Apply in 20-40 gal. of water/acre to assure thorough coverage.

Precautions (1) Do not apply more than 37.5 lbs./acre per cycle (2) Repeated monthly applications to plant foliage may slow plant growth and delay fruiting.

Note: Do not apply within 45 days of fruit harvest or forage harvest if forage. is to be fed to livestock.

SUGARCANE

For control of many broadleaf grass weeds, including amaranths, crabgrass, fireweed, Flora's paintbrush, foxtalls, junglerice and wiregrass, broadcast 2.5-5 lb.
per acre of RIVERSIDE ATRASIDE80Wat time of planting or rationing, but before sugar
cane emerges. Broadcast aerially in a minimum of 5 gal. of spray per acre, or broadcast or band by ground equipment in a minimum of 20 gal. per acre, unless indicuted
otherwise. One additional application may be made over the sugarcane as it emerges,
and two 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 prior to "close-in". On not
exceed the rate of herbicide suggested for any one crop of sugarcane.

Note: Where high rates of RIVERSIDE ATRASIDE BOW are used alone, apply in a minimum of 1 gal of water for each 1 lb. of RIVERSIDE ATRASIDE BOW applied per acre.

Note: Temporary Injury to trees may occur following the use of atrazine on coarsetextured soil.

Precautions: (1) Do not graze treated areas. (2) Do not apply to seedbeds. (3) 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. above vegetation, using low drift nozzles at a maximum pressure of 40 psl, 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 RIVERSIDE ATRAZINE 80W by aircraft at a minimum upwind distance of 400 ft. from sensitive plants.

NOUSELECTIVE WEED CONTROL ON NONCROP LAND

This product provides long-term weed control on industrial sites, highway medians and shoulders, railroad rights-of-ways, lumberyards, petroleum tank farms, and in noncrop areas on farms, such as around buildings, equipment and fuel storage areas, along fences, and lanes. Do not use near adjacent desirable plants or in greenhouses, or injury may occur.

Apply before or soon after weeds begin growth. Make postemergence applications when weeds are young and actively growing. Use the higher rates on fine clay and muck soils. Use sufficient water to assure thorough coverage. Use at least 1 gal. of water for each th. of product; use more if practical.

Note: Do not allow livestock to graze treated areas.

Annual broadleaf and grass weeds (Including barnyardgrass, cheatgrass, crabgrass, lambsquarters, foxtall, ragweed puncturevine, and turkey mulleln): Broadcast & 12.5 lb. pur agree.

Hard-to-kill annual and many perennial broadleaf and grass weeds (including biver grass, burdock, Canada thistle, dogfennel, orchardgrass, plantain, quackgrass, purpletop, redtop, and smooth brome): Broadcast 12.5-25 lb. per acre.

Hard-to-kill biennial and perconial weeds (Including bull thistle and sowthistie): Broadcast 75-50 lb. pur acre.

For small areas, 4.5 oz. per 1,000 sq. ft. is equivalent to 12.5 lb. pr - acre



Bexton' trademark of Dow Chemical Company for propachlor

Callber' trademark of C1BA-GEIGY

Concep' trademark of CIBA-GEIGY

Dual trademark of CIBA-GEIGY for metalachlor - U.S. Patent No. 3,937,730

Igran' trademark of CIBA-GEIGY for terbutryn - U.S. Patent No. 3,634,062

Lasso' trademark of Monsanto Company for alachlor

Princep' trademark of CIBA-GEIGY for simazine

Ramrod' trademark of Monsanto Company for propachlor

Roundup' trademark of Monsanto Company for glyphosate herbicide

Sutan'+ trademark of Stauffer Chemical Co. for butylate

x-77' trademark of KALO Laboratories, Inc.

Aerlai 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 tow 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 RIVERSIDE ATRASIDE 80W alone by aircraft at a minimum upwind distance of 400 ft. from sensitive plants.

Florida

for control of emerged pellitory weed: Apply 0.5-0.75 lb. per acre in at least 40 gal. of water as a directed spray by ground equipment prior to "close-in". Add 4 gt. of surfactant for each 100 gal. of spray. Thoroughly cover weed follage.

For control of alexandergrass, large crabgrass, pellitory (artillery) weed, and splny amaranth, use one of the following methods at planting or ratconing:

- 1. Apply 5 to, per acre preemergence. Follow with one or two applications, as needed, postemergence to sugarcane and weeds, at 2.5 lb per acre. Treat before weeds exceed 1.5 inches in height.
- 2. Apply 1-3 times, as needed, at 2.516 per acre postemergence to sugarcane and weeds. Treat before weeds exceed 1.5 Inches In height.

Texas

Use RIVER TOE ATRASIDE 80W for control of barnyardgrass, plgweed, purslane and sunflower, in plant or ration sugarcane.

Apply 5 to, per acre of RIVERSIDE ATRASIDE BOW preemergence. Follow with one or two applications as needed at 3.75 to per sore postemergence to sugarcane and weeds...

For hist results when weeds are emerged, add a nonlonic surfactant at deconcentration of 2 qt. per 100 gal. to the spray and apply before weeds exceed 1.5 inches in height.

Precautions: (1) Injury to sugarcana 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". (3) Do not apply more than 12.5 lb. per acre to any one crop of sugarcane.

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for control of annual broadleaf and grass weeds prior to transplanting, after transplanting or in established conifers (including Douglas fir, grand fir, noble fir, white fir, Austrian pine, bishop pine, Jeffrey pine, knobcone pine, lobiolly pine, lodgepole pine (shore pine), monterey pine, ponúerosa pine, Scotch pine, siash pine, blue spruce, and Sitka spruce): Broadcast 2.5-5 lb. in a minimum of 5 gal. of water per acre by air or 10 gal. 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, allow sufficient precipitation to activate RIVERSIDE ATRASIDE 20% activate atrazine, apply during fall prior to spring transplanting.

For the list of weeds controlled, see RIVERSIDE ATRASIDE80W Applied Alone - Corn Oracle Sorghum - Preplant Incorporated or Preemergence.

Quackgrass control: Broadcast 5 lb. In a minimum of 5 gal. of water per acre by air before quackgrass is more than 1.5 inches tall.

