ACCEPTED

SEP 1 1 1986

Under the result of Insecticide. Funginde, and Rodenticide Act, as amended, for the pesticide registered under 19-054

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-	
isopropy mino-s-triazine)	76.8%
Related 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 conscious 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 INHALFD: 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.

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

EPA Reg. No. EPA Est. No.		Net Contents:
BIA ESC. NO. 3773-	3773-	Gallons
		L'ters
		•

(Riverside "R")

Manufactured by:

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

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 emasis of 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 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 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 Afrazine on (date). Do not enter without appropriate protective clothing until sprays have dried. In case of accidental exposure, refer to the "STATEMENT OF PRACTICAL TREATMENT" on the label.

STORAGE AND DISPOSAL

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 Statements."

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 for specific recommendations.

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, nonflammable, 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 label.

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 warrants 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 assumes 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 nozzles 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 galtons at spray mixture per acre for all preplant, preemergence, and postemergence applications (with or without oil or surfactant) with ground equipment.

use a pump with capacity to (1) maintain 35-40 psi 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 dispensing and mixing this product. The pump should provide a minimum of 10 gallons per minute per 100 gallons tank size circulated through a 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 be applied per acre as follows:

band width in inches

row width in inches

x

broadcast rate
per acre

amount needed per acre of field

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 80N applied per acre. For postemergence treatments on worn and sorghum, apply recommended rate in a minimum of 2 gallons of water per acre. Avoid applications under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

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

replacement in Mater Or Liquid Fertilizer: Nitrogen solution or complete liquid tentilizer may replace all or part of the water as a carrier for preemergence or proplant ground application on corn and sorghum. Check the compatibility of this product 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 under.



To determine the compatibility of RIVERSIDE ATRASIDE 80W, alone or in tank mixtures, with fluid tertilizer, 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 bound of RIVERSIDE ATRASIDE80W or other dry product to be applied per acro, and I level teaspoon or 5 milliliters 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 teaspeon or 2.5 milliliters of the product to one pint of fluid fertilizer (assuming a volume of 25 gallons per acre).

After the rough 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 siurry with the herbicide before adding fertilizer and use the mixture only if this test shows it is compatible.

Application in Water Plus EmulsIflable Oil or Oil Concentrate: Adding emulsifiable oil or oil concentrate, such as Prime Oil or Prime Oil II, to postemergence water-based sprays on corn and sorghum may improve weed 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.

thus a crop oil containing 1-2% suitable emulsifier, or a suitable crop oil concentrate containing not more than 20% emulsifier or surfactant blend. Emulsifiable oil and all concentrate contaminated with water or other materials can cause compatibility problems and/or crop injury.

thixing Procedures-All Uses: (1) Be sure sprayer is clean and not contaminated with any other materials, or crop injury or sprayer clogjinn may result. (2) Fill tank 1/4 tull with clean water, niti jen solution, or complete liquid fertilizer. (3) Start aditation. (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) Empty tank as completely as possible before refilling to prevent heritage of oil or emulsifiable concentrate residue. Maintain agitation to avoid supporation of materials. (10) If an oil or emulsifiable concentrate film starts to build at in tank, drain it and clean with strong detergent solution or solvent. (11) Clean apprayer thoroughly immediately after use by flushing system with water containing a detergent.

RIVERSIDE ATRASIDE 80W Applied Alone - Corn or Grain Sorghum

Preplant Incorporated or Preemergence Weeds Controlled:

Barnyandgrass cocklebur nightsnade (watergrass) groundcherry piqweed giant foxtail jlmsonweed purslane green foxtail kochia ragweed large (hairy) crabgrass lambsquarters velvetleaf annual morningglory wild oats (buttonweed)

witchgraus mustards

(Panicum capillare)

yellow foxtall

Postemergence with Emulsifiable Oil or Cil Concentrate in Water Weeds Controlled:

annual morningglory pigweed cocklebur ragweed jimsonweed smartweed labsquarters wild buckwheat welvetleaf



CORN

Proplant (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.

FABLE 1: broadleaf and Grass Meed Control on Corn*

Soil Texture	Broadcast Rate/A
COARSE Sand, Loamy sand, sandy loam	2.5 16.
HEDILIP 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, silt, clay loam, sandy clay loam, silty clay loam, sandy clay, or silty clay with medium to high organic matter, and clay (including the dark prairie solls of the Corn Bells	3.75 lb.
Peat, muck, and high organic clay (apply postemorgence only)	3./5 lb.

*Broadleaf contro! (eastern CO, western KS, western NE, NM, OK Pan Handia, wast TX. and eastern WY) On sand, loamy sand, sandy I am, mild to strongly alkaline soil, and all recently leveled soil, apply no more than 1.5 It./A either preplant or pre-emergence. On other soils in these areas, apply rate in Table:1 for broadleaf and grass control.

tay-by treatment (Broadlenf and grass control): Broadcast 1.25-2.5 Fb/A hefore 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.

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

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

Broadleat Control: Broadcast 2.4 lb. per acre plus emulsifiable oll 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 wasds regrow.

Precautions for Applications with Emulsiflable Oil or Oil Concentrate:

(1) Do not apply when crop is under stress from prolonged cold, wet weather, 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 insectleides, herbicides, 'iquid 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 thistle.

Problem Weeds:

Yellow Nutsedge and Canada 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, cultivate once.

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.

- i. Broudcast 2.5 Ib/A plus 1 gal. of emulsifiable oil or 1 qt. of oil concentrate. Apply after crop and yellow nutsedge or Canada thistle emerge but before yellow nutsedge reaches a height of 3 inches or Canada thistle reaches a height of 6 inches. Repeat 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 shorty after planting, but prior to crop or weed emergence for control of Canada thistle. Follow with an application of 2.5 lb/A plus I gal. of emulsiflable oil or 1 it. of oil concentrate after corn and weeds emerge, but before yellow nutsedie or Canada the tile reaches a height of 6 Inches.
- 3 Broudcust 5 lb/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 nut-sedge and Canada thistle emerge, but before yellow nutsedge is 3 inches tall or Canada thistle is 6 inches tall.
- 4. Broadcast 5 lb/A before, during, or shortly after planting, but before crop 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 Going 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 before weeds are 1.5 inches high. This split application will control quackgrass and 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 it is mixed with these herbicides for control of certain broadleaf and grass weeds in corn:

Dual (metolach(or)

Dual + ORTHO Paraquat CL (paraquat)

Hual → Poundup' (glyphosate)

Dual + Princep'

Dual + Princep + ORTHO Paraquat CL

Dual + Princep + Roundup

Bexton or Ramrod (propachlor)

Bladex:

Lasso or Lasso EC (alachlor) Lasso or Lasso EC + Roundup Lasso or Lasso EC + Paraguat CL

ORTHO Paraquat CL

Princep

Princep + ORTHO Paraguat CL

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 to. of 80W. One lb. of 90 dry flowable equals 1.125 lb. of 80W.

Princep 80W, Princep 4L(4LC), or Princep Caliber 9C In addition to the weeds listed under RIVERSIDE ATRASIDE 80W Applied Alone - Corn and Grain Sorghum - Preplant or Preemergence, this combination controls crabgrass, fall panisum, 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 ratic for expected heavy infestations of crabgrass and fall panicum. Cultivate shallowly it weeds develop.

Preplant: Apply in spring during or after final seedbed prepartion. If soil is titled or worked after application, avoid deep incorporation. For best results, apply within two weeks prior to planting.

Preemergance: Apply during or shortly after planting, but before crop and weeds emerge.

Refer to CORH sections of this label and to Princep 80W, Princep Caliber JO, or Princep 41(4LC) labels for further directions, limitations, and precautions.

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TABLE 2: Tank Mixtures with orincep on Corn

	T	BROADCAST RATE PER ACRE		
	1.	1.1 Ratio 1:2 Ratio		Ratio
Soil Texture	This Product	Princep 80W ¹	This Product	Princep 80W ¹
Sand, loamy sand, sandy loam	1.25 16	1.25 16	0.83 lb	1.67 16
Loam, silt loam, silt, clay loam, sandy clay loam, silty clay loam, sandy clay, or silty clay with low organic matter	1.5 16	1.5 16	. 1 1b	2 lb
toam, silt toam, silt, clay loam, sandy clay toam, silty clay loam, sandy clay, or silty clay with medium to high organic matter, and clay (including dark prairie soils of the Corn Belt)	1.8 lb	1.8 16	1.2 lb	2.4 lb

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

Princep 80W, Princep 4L(4LC), or Princep Callber 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 nonionic surfactant, such as X-77°. Continue agitation during application. Broadcast 1.25-2.5 lb. of this product plus 1.25-2.5 lb. Prince, 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 nonionic 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 Paraguat CL

Precautions for all applications to corn: (1) Do not apply more than 5 tb/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.

Note for all application to corn: Do not graze or feed forage from treated areas for : 21 days tellowing application.



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

When using Princep Caliber 90 or Princep 4L(4LC), use equivalent rates. One 1b. of Princep 80W equals 0.9 15. 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 lb/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 solls 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)

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 after application, avoid deep incorporation. For best results, apply within two weeks prior to planting.

Programming on shortly after planting, but prior to weed or crop emergence at rate in Table 3.

TABLE 3. Preplant and Preemargence Broadleaf and Grass Weed Control in Sorghum* ORGANIC BROADCAST RATE PER ACRE SOIL TEXTURE MATTER COARSE Sand, loamy sand, DO NOT USE Any Level sandy loam (except for preemergence use on bedded sorghum in MEDIUM AND FINE less than 1% AZ and CA) 1-1.5% 2-2.5 lb. Leam, silt loam, silt, clay loam, sandy clay loam, silty clay loam, More than 1.5% sandy clay, silty clay, clay 2.5-3 16.

The not apply preplant in AL, AR, FE, GA, LA, MS, NC, NM, OK, SC, TN, or TX. Do not apply prepared in NM, OK, or TX, except in northeast OK, and the TX Gulf 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 band and sordhum or corn is replanted in untreated row middles, this product may be applied in a band to the second planting.

Preemergence broadlest weed control in furrow irrigated bedded sorghum (AZ and CA only): for preemergence control of many broadlest weeds, broadcast 1-1.5 It. per acre after bed preparation during or after planting, but before sorghum and weeds emerge and before the riest furrow irrigation. Follow with several regular icri-qations, making sure to thoroughly wet all soil.

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Precautions for Preemergence Application to Furrow Irrigated Bedded Sorghum in A7 and CA: To avoid possible sorghum injury, do not use on sand or loamy sand soil or on sorghum planted in furrows. Applications to sorghum growing on alkali soils or, where cuts, fills, or erosion have exposed calcareous or alkali subsoils may cause crop injury. In case of crop failure, do not replant sorgrum for 8 months following application. Corn may be planted immediately.

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

TABLE 1: Postemergence Broadleaf and Grass Weed Control In Sorghum

Soil Texture	Minimum Sorghum Height at Treatment	
Sand or loamy sand DO NOT USE		SE
Sandy loam	See Directions For Postemergence Broadleaf Weed Control.	
Silt leam to sandy clay loam	Completely Emerged	2.5-3 lb.
Olton and Pullman clay soil	6 Inches	2.5-3 lb.
silty clay loam and finer textured soil	Completely Emerged	3.75 lb.

Postemergence Broadleaf Weed Control with Emulsifiable Oll or Oll Concentrate In Nater: 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 oil concentrate, such as Prime Oll or Prime Oll it, for ground application, n=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 RIVERS DE ATRASIDE 30W Applied Alone - Corn or Grain Sorghum - Postemergence with Emulsifiat e Oil or Oil Concentrate.

Precautions for Applications with Emulsifiable Oll or Oll Concentrate in Water: See "Precautions for Applications with Emulsifiable Oil or Oll Concentrate in Water" in Corn section.

Postemergence Broadleaf Weed Control with Surfactant (CO, western KS, NN, OK, TX, and desert regions of AZ and CA only): Broadcast 1.5 Jb/A plus 0.75-1.5 pt. of surfactant often 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 following application tends to cause excessive concentrations of herbicide in seed furrow, resulting in possible crop injury. Do not apply to furrow-planted sorghum until furrows are leveled (plowed in). Level deep planter marks or seed furrow, before application. (2) Application to sorghum growing under stress caused by minor element deficiency or to sorghum gro ing on highly calcareous soil may result in crop injury. (3) 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. (4) injury may occur if both this herbicide, preplant or preemergence, and an at-planting systemic insecticide applied in-furrow are used.

cation.

Rotational Crops: See "Rotational Crops" in Corn section

TANK MIXTURES FOR GPAIN SORGHUM

Igran' 80W: Use as tank mixture for control of certain broadleaf and grass weeds in grain sorghum. Refer to Igran 80W label for all directions, 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 label. Use this tank mixture only on Conceptateated sorghum seed. Refer to the Dual 8E label for all directions, precautions, and limitations.

RIVERSIDE ATRASIDE 80W Alone - Chemical Fallow

Wheat-Sorghum-Fallow: To control annual broadleaf and grass weeds following wheat harves: and in the following sorghum crop when grown under minimum tillage, broadcast 2.15 Hz - 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 80W. Plant sorghum into wheat stubble the following spring with minimum soil 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 loam or finer textured soil. (2) Wheat-sorghum-fallow cropping sequence must be followed. (3) Do not apply following sorghum harvest.

Note: No 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, Russian thistle, wild lettuce, wild sunflower, and volunteer wheat during period after wheat harvest. Weed control may extend into following corn crop grown under minimum tillage.

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

Wheat-Fallow-Whea (CO, KS, MT, NE, ND, SD, and WY): For preemergence control of cheatgrass (downy brome, chess), common lambsquarters, field pennycress, kochia, 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 soils 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 railow period.

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TANK MIXTURES FOR CHEMICAL FALLOW

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

agran 800 Use a tank mixture for control of certain broadleaf and grass weeds in wheat-sorphum-fallow or wheat-corn-fallow rotations. 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 nonlonic 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 fallow period. Refer to Paraquat CL label for further directions precautions, and limitations.

Wheat-Fallow-Wheat (CO, KS, MT, NE, ND, SP, and WY)
Igran 80W: Use as tank mixture for control of certain broadleaf and grass weeds in wheat-fallow-wheat rotations. 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 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 nonionic 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.

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

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

Precautions: (1) Do not use on sand soil. (2) Do not treat eroded hillsides, caliche 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 soils 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 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 4L alone by aircraft at a minimum upwind distance of 400 ft. from sensitive plants, or apply RIVERSIDE ATRASIDE 80W + Igran 80W at a miminum 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 proposal or preemergence control of foxtalls, kochia, common lambsquarrers, redroot pigweed, Russlon thistle, slimleaf lambsquarters and spotted spurge, apply $0.0-1.25\,$ lb/A on soils with less than 2% organic matter, or apply $1.25-2.5\,$ lL/A on soils with 2% or higher organic matter.

Precaution: Make only one application per year.

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

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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.

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 80W by aircraft at a min!mum upwind distance of 400 ft. from sensitive plants.

Establishment of perennial range grasses in West (CA, ID, NV, OR, UT, WA): Broadcast 1-1.25 (b) 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 range and 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 80w Applied Alone - Corn or Grain Sorghum - Preplant Incorporated or Pre-emergence.

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. Clip weeds that escape in July or August. Avoid clipping switchgrass or 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 blue tem. Treat only once per year.

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



PEREINDIAL RYEGRASS GROWN FOR SEED (Pacific Northwest Only)

For control of annual ryegrass and rattall fescue, broadcast 1.5 lb. per acre after first fall rain.

Precautions: (1) Apply only to perennial ryegrass from which seed crop has been harvested. (2) Do not apply to ryegrass more than 2 years in succession.

Note: Do not graze treated land within 10 days after application. Do not plant treated land to other crops for 16 months.

TURF GRASSES FOR SOD

St. Augustinegrass, Centipedegrass, and Zoysla Grass

Broadcast 2.5-5 lb. per acre according to soil texture to control those weeds this test under RIVERSIDE ATRASIDE 80W Applied Alone - Corn or Grain Sorghum - Preplant the appointed or Preemergence.

Muck or Peat 5 lb.	5 16	Old beds: Within 2 days after lifting sod.
	<i>J</i> 10.	New beds: 3-4 days after sprigging or plugging.
Sant. wit 2.5 lb.	2 5 15	Old beds: Within 2 days after lifting sod.
	New beds: 7-10 days after sprigging or plugging.	

It would 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 north of NC.

MACADAMIA NUTS

for preemergence control of many broadleaf and grass weeds, including crabgrass, foxtail, wiregrass, Flora's paintbrush, spanishneedles, and fireweed, broadcast 2.9-9-11, 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, foxtails, junglerice and wiregrass, broadcast 2.5-5 lb. per acre of RIVERSIDE ATRASIDE 80W at time of planting or ratooning, but before sugarcane 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 80W are used alone, apply in a minimum of 1 gal. of water for each 1 lb. of RIVERSIDE ATRASIDE 80W 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 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 ATRAZINE 80W by aircraft at a minimum upwind distance of 400 ft, from sensitive plants.

HOUSELECTIVE 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 15, of product; use more if practical.

note: Up not allow livestock to graze treated areas.

Annual proadleaf and grass weeds (Including barnyardgrass, cheatgrass, crabgrass, lambsquarters, foxtail, ragweed, puncturevine, and turkey mullein): Broadcast 6-12.5 lb. processes.

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

Bard-te-kill biennial and perennial weeds (Including built thistle and sowthistle): Broadcast 19-50 lb. per acre.

For small urgas, 4.5 uz. per 1,000 sq. ft. Is equivalent to 12.5 lb. per acre.

Bexton' trademark of Dow Chemical Company for propachlor

Caliber' trademark of CIBA-GEIGY

Concep' trademark of CIBA-GEIGY

Dual' trademark of CIBA-GEIGY for metolachlor - 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

Roundum' trademark of Monsanto Company for glyphosate herbicide

Sutan'+ trademark of Stauffer Chemical Co. for butylate

x-77' trademark of KALO Laboratories, Inc.

Aerial application: In order to assure that spray will be controllable within the target area when used according to label directions, make applications at a maximum height of 10 ft. using low drift nozzles at a maximum pressure of 40 psi, and restrict application to periods when wind speed does not exceed 10 mph. To assure that spray will not adversely affect adjacent sensitive nor arget plants, apply RIVERSIDE ATRASIDE 80W alone by alreraft at a minimum upwind distance of 400 ft. from sensitive plants.

rlorida

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 qt. of surfactant for each 100 gal. of spray. Thoroughly cover weed foliage.

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

- 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 2.5 lb per acre postemergence to sugarcane and weeds. Treat before weeds exceed 1.5 inches in height.

Texas

Use RIVERSIDE 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 lb. per acre postemergence to sugarcane and weeds.

For best results when weeds are emerged, add a nonionic surfaciant at a concentration of 2 qt. per 100 gal. to the spray and apply before weeds exceed 1.5 inches in height.

Precautions: (1) Injury to sugarcane may occur when under molsture 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.

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, loblolly pine, lodgepole pine (shore pine), monterey pine, ponderosa pine, Scotch pine, slash 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 80% activate atrazine, apply during fall prior to spring transplanting.

for the list of weeds controlled, see RIVERSIDE ATRASIDE80% Applied Alone - Corn or Grain 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.