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 APR 9 - 1987
 ral Insecticide.
 Rodenticide F.ct.
 for the pesticide
 Index
 EPA Reg. No. 9779-253

ATRAZINE 90 DF

Atrazine 90 DF (Dry Flowable) is a Water Dispersible Granule
 For Season-Long Weed Control in Corn and Sorghum,
 For Weed Control in Certain Other Crops; In Non-Crop Areas; and Industrial Sites

ACTIVE INGREDIENTS	BY WEIGHT:
Atrazine (2-chloro-4-ethylamino-6-isopropylamino-s-triazine)	86.5%
Related Compounds	3.6%
INERT INGREDIENTS	9.9%
	TOTAL 100.0%

EPA Reg. No. 9779-253

EPA Est. No. 9779-AR-13

KEEP OUT OF REACH OF CHILDREN

CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Contact your local poison control center, hospital, or physician. If the patient 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 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.

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS



MANUFACTURED BY
RIVERSIDE/TERRA CORP.
 A SUBSIDIARY OF TERRA INTERNATIONAL, INC.
 TERRA CENTRE - 600 FOURTH STREET - SIOUX CITY, IOWA 51101
 AND BRANCHES TO SERVICE AGRICULTURE - AGRICULTURE 9779-253

PM 25 RC-G# 9779-253

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

Read and follow all Federal law in 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 STATEMENTS

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.

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 usable 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.

GENERAL INFORMATION

This herbicide controls many annual broadleaf and grass weeds in corn, sorghum, sugarcane, and certain other crops specified on the 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.

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 gallons of spray mixture per acre for preplant, preemergence, and postemergence applications (with or without oil or surfactant) with ground equipment.

(continued on other side panel)

Use a pump with capacity to (1) maintain 35-40 psi at nozzles, (2) provide sufficient agitation in tank to keep mixture in suspension, 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 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 18-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 to be applied per acre as follows:

band width in inches	X	broadcast rate	=	amount needed
row width in inches		per acre		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 ATRAZINE 90 DF 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 conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

Avoidance of Injury to Humans or Animals: Farmmen and loaders should avoid inhalation of spray mist and prolonged contact with skin and should wash thoroughly before eating 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 product with liquid fertilizer and/or nitrogen solution as shown below before use. Do not apply if 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.

To determine the compatibility of RIVERSIDE ATRAZINE 90 DF 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 ATRAZINE 90 DF or other dry product to be applied per acre, add 1 level teaspoon of 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 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 slurry with the herbicide before adding fertilizer and use the mixture only if this test shows it is compatible.

APPLICATION IN WATER PLUS EMULSIFIABLE 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:

Use 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 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 1/3 full with clean water, nitrogen 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 container into tank. Let it wet and settle into water. (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 buildup of oil or emulsifiable concentrate residue. Maintain agitation to avoid separation of materials. (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 sprayer thoroughly immediately after use by flushing system with water containing a detergent.

NOTICE

The Directions For Use of this product reflect the opinions 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 material, 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 this 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 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.

SEE ATTACHED BOOKLET FOR COMPLETE DIRECTIONS FOR USE

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

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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.



**ATRAZINE
90 DF**

Atrazine 90 DF (Dry Flowable) is a
Water Dispersible Granule
For Season-Long Weed Control in
Corn and Sorghum,
For Weed Control in Certain Other Crops; In
Non-Crop Areas; and Industrial Sites

ACTIVE INGREDIENTS	BY WEIGHT:
Atrazine (2-chloro-4-ethylamino-6-isopropylamino-s-triazine)	86.5%
Related Compounds	3.5%
INERT INGREDIENTS	9.9%
TOTAL	100.0%

EPA REG. NO. 9779-253

EPA EST. NO. 9779-AR-13

DO NOT DETACH BOOKLET FROM CONTAINER

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See Inside booklet for Precautionary Statements
and Statement of Practical Treatment

dustal 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.

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 gallons of 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 suspension, and (3) to provide a minimum of 26% 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 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 application, calculate the amount to be applied per acre as follows:

$$\frac{\text{band width in inches}}{\text{row width in inches}} \times \text{broadcast rate per acre} = \text{amount needed per acre of field}$$

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 ATRAZINE 90 DF applied per acre. For postemergence treatments on corn and sorghum, apply

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, nitrogen 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 container into tank. Let it wet and settle into water. (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 buildup of oil or emulsifiable concentrate residue. Maintain agitation to avoid separation of materials. (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 sprayer thoroughly immediately after use by flushing system with water containing a detergent.

ATRAZINE 90 DF

Applied Alone—Corn or Grain Sorghum

Preplant Incorporated or Preemergence—Weeds Controlled:

barnyardgrass	rimsonweed
(watergrass)	kocho
giant foxtail	lambsquarters
green foxtail	annual morningglory
large (hairy) crabgrass	mustards
wild oats	nightshade
witchgrass	pigweed
(Panicum capillare)	purslane
yellow foxtail	ragweed
cocklebur	velvetleaf
groundcherry	(buttonweed)

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

annual morningglory	pigweed
cocklebur	ragweed
rimsonweed	smartweed
lambsquarters	wild buckwheat
mustards	velvetleaf

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 STATEMENTS

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.

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 no suitable for use, dispose of in accordance with information given under "DISPOSAL." Repackage and relabel unused 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.

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 in

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 inhalation of spray mist and prolonged contact with skin and should wash thoroughly before eating 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 of preplant 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 occur.

To determine the compatibility of ATRAZINE 90 DF, 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 ATRAZINE 90 DF or other dry product to be applied per acre, add 1 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 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 slurry with the herbicide before adding fertilizer and use the mixture only if this test shows it is compatible.

Application in Water Plus Emulsifiable Oil or Oil Concentrate: Adding emulsifiable oil or oil concentrate, such as Terra 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.

Use a crop oil containing 1-2% suitable emulsifier, or a suitable crop oil concentrate containing not more than 20% surfactant.

Postemergence with Emulsifiable Oil or Oil Concentrate in Water.

Broadleaf and Grass Control: Apply 2.2 lb/A after weed emergence, but before weeds reach 1.5 inches in height. Apply 1 qt. of emulsifiable oil/A for ground application and 0.5 gal. for aerial application. Add 1 qt. of oil concentrate per acre for ground application.

Broadleaf Control: Apply 1.3 lb/A for control of many broadleaf weeds, including annual morningglory, cocklebur, lambsquarters, mustard, pigweed, ragweed, smartweed, and wild buckwheat. Add 1 gal. of emulsifiable oil per acre for ground application. Apply before pigweed and lambsquarters reach 6 inches in height and before all other weeds reach 4 inches in height. A cultivation may be necessary if all weeds are not controlled or if weeds regrow.

Precautions for Applications with Emulsifiable Oil or Oil Concentrate in Water: (1) Do not apply when crop is under stress from prolonged cold, wet weather, poor fertility, or other factors, or when crop is wet and succulent from recent rainfall, as crop injury may occur. (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 concentrated 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 and Canada thistle.

Problem Weeds:

Yellow nutsedge and Canada thistle: This product will control yellow nutsedge (*Cyperus 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 a problem. If yellow nutsedge or Canada thistle regrow following last application, cultivate once.

Six alternative methods of use for control of yellow nutsedge and Canada thistle are listed below in order of preference. If

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.

TABLE 1 Broadleaf and Grass Weed Control on Corn*

Soil texture	Broadcast Rate/A
COARSE Sand, loamy sand, sandy loam	2.2 lb
MEDIUM Loam, silt loam, silt clay loam, sandy clay loam, silty clay loam, sandy clay or silty clay with low organic matter	2.6 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 soils of the Corn Belt)	3.3 lb
Peat, muck, and high organic clay (apply postemergence only)	3.3 lb

* Broadcast control: eastern CO, western KS, western NE, NE OK, Panhandle west TX, and eastern WY. On sand, loamy sand, sandy loam, add 2.0 qt. of oil concentrate per acre after corn and weeds emerge, but before yellow nutsedge reaches a height of 6 inches or preemergence. On other soils in these areas, apply rate in Table 1 for broadcast and grass control.

Lay-by treatment (Broadleaf and grass control): Broadcast 1.1-2.2 lb/A in minimum of 10 gal. of water or nitrogen solution, before weeds are 1.5 inches tall and corn is 20-30 inches tall. When using nitrogen solutions, direct spray to lower 3-4 inches of corn stalks to avoid corn foliage injury. Maintain agitation in spray tank during application.

TANK MIXTURES FOR CORN

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

Dual® (metolachlor)	Bladex®
Dual + ORTHO Paraquat + Plus	Lasso® or Lasso EC (alachlor)
Dual + Roundup® (glyphosate)	Lasso or Lasso EC + Roundup
Dual + Princep®	Lasso or Lasso EC + Paraquat + Plus
Dual + Princep + ORTHO Paraquat + Plus	GHFHO Paraquat + Plus
Dual + Princep + Roundup	Princep
Bexton® or Ramond® (propachlor)	Princep + ORTHO Paraquat + Plus
	Princep + Roundup
	Sutan®

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

Note: When labels of the above herbicides refer to atrazine 80W or atrazine 4L, use equivalent rates of ATRAZINE 90 DF. One lb. of 80W equals 0.89 lb. of 90 DF. One quart of 4L equals 1.1 lb. of 90 DF.

Princep 80W or Princep 4L: Use as tank mixture for control of many annual weeds, including carpetweed, crabgrass, fall panicum, foxtail, lambsquarters, morningglory, pigweed, ray weed, and velvetleaf. Apply before, during, at planting, or after planting, but before crop and weeds emerge, at rates in Table 2. Use 1:1 ratio for control of above weeds. Use 1:2 ratio for expected heavy infestations of crabgrass and fall panicum. Apply in a minimum of 20 gal. of water per acre. Cultivate shallowly if weeds appear.

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

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

Refer to Corn sections of this label and to Princep 80W and Princep 4L label for further directions, limitations, and precautions.

other weed species, including annual grasses, are also excluded, use alternative 2, 3, 5, or 6.

1. Apply 2.2 lb. plus 1 gal. of emulsifiable oil or 1 qt. of oil concentrate per acre after crop and yellow nutsedge or Canada thistle emerge, but before yellow nutsedge reaches a height of 2 inches or Canada thistle reaches a height of 6 inches. Repeat application before lay-by (20-30 inches), 10-20 days after first application.
2. Apply 2.2 lb. per acre preplant. Follow with an application of 2.2 lb. plus 1 gal. of emulsifiable oil or 1 qt. of oil concentrate per acre after corn and weeds emerge, but before yellow nutsedge reaches a height of 3 inches (yellow nutsedge control only).
3. Apply 2.2 lb. per acre during or shortly after planting, but before crop or weed emergence. Follow with an application of 2.2 lb. plus 1 gal. of emulsifiable oil or 1 qt. of oil concentrate per acre after corn and weeds emerge, but before yellow nutsedge reaches a height of 3 inches or Canada thistle reaches a height of 6 inches.
4. Apply 4.4 lb. plus 1 gal. of emulsifiable oil or 1 qt. of oil concentrate per acre after crop emerges, but before lay-by (20-30 inches) and after yellow nutsedge and Canada thistle emerge, but before yellow nutsedge is 3 inches tall or Canada thistle is 6 inches tall.
5. Apply 4.4 lb. per acre preplant (yellow nutsedge control only).
6. Apply 4.4 lb. per acre during or shortly after planting, but before crop or weed emergence (yellow nutsedge control only).

Note: Do not use alternative 1, 2, 3, or 4 when corn is wet or under stress. See "Precautions for Applications with Emulsifiable Oil or Oil Concentrate in Water" for additional directions (Page 7).

Quackgrass Control on Land Going Into Corn Production:

Split Application: Broadcast 2.2 lb/A in fall or spring. Plow 1-3 weeks later. Apply a second application at 2.2 lb/A in spring before, during, or after planting, but before weeds are 1.5 inches high. This split application will control quackgrass and many annual broadleaf and grass weeds.

Single Application: Broadcast 3.3-4.4 lb/A in fall or spring. Plow 1-3 weeks later.

corn. Apply during application. Apply 1 1/2 lb. of this product plus 1/2 5 lb. Princep BOW plus 1-2 pt. Paraquat + Plus in 20-30 gal. of water per acre before, during or after planting, but before corn crop emerges. Add 8 fl. oz. of a nonionic surfactant, such as Riverside Activate per 100 gal. diluted spray. Use low rates of this product and of Princep BOW on coarse soil, and higher rates on fine textured soil. Use the 2 pt. rate of Paraquat + Plus if existing vegetation is 4-6 inches tall. This mixture will not control weeds higher than 6 inches. Refer to further limitations and precautions on labels for this product. Princep BOW and Paraquat + Plus.

Precautions for All Applications to Corn: (1) Do not apply more than 4.4 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 corn in spring seeded crops to grassless. At rate used.

Note for All Applications to Corn: Do not graze or feed forage from treated areas for 21 days following application.

Rotational Crops: (1) Do not rotate to any crop except corn or sorghum until the following year, as injury may occur. (2) If applied after June 10, do not rotate with crops other than corn or sorghum the next year, as crop injury may occur. (3) If used at a rate higher than 3.3 lb. per acre or equivalent band application rate, 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 2.2 lb. per acre or equivalent band application rate, as soybean injury may occur. (6) Injury may occur to soybeans planted in the central and northwestern, south-central and southwest MN, northeast NE, southeast SD, and other areas the year following application on soils having a calcareous surface layer. (7) Do not plant sugarbeets, tobacco, vegetables

Preemergence Broadleaf Weed Control in Furrow Irrigated Bedded Sorghum (AZ and CA only): For preemergence control of many broadleaf weeds, including groundcherry, lambsquarters, morningglory, mustard pigweed, and purslane, apply 0.9 to 1.3 lb. per acre after bed preparation, during or after planting, but before sorghum and weeds emerge, and before the first furrow irrigation. Follow with several regular irrigations making sure to thoroughly wet all soil.

Precautions for Preemergence Application to Furrow Irrigated Bedded Sorghum in AZ 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, hills, or erosion have exposed calcareous or alkali subsoils may cause crop injury. In case of crop failure, do not replant 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

Soil Texture	Minimum Sorghum Height at Treatment	Broadcast Rate Per Acre
Sand or loamy sand	DO NOT USE	
Sandy loam	See Directions for Postemergence Broadleaf Weed Control	
Silt loam to sandy clay loam	Completely Emerged	2-2.2-5 lb
Dillon and Pullman clay soil	6 inches	2-2.2-6 lb
Silty clay loam and finer textured soil	Completely Emerged	3-3 lb

Postemergence Broadleaf Weed Control with Emulsifiable Oil or Oil Concentrate in Water: Apply 1.3 lb. per acre for control of many broadleaf weeds, including annual morningglory, cocklebur, lambsquarters, mustard pigweed, ragweed,

Soil Texture	Broadcast Rate - 1/2 Acre		Broadcast Rate - 1/2 Acre	
	This Product	Princep 4L or Princep BOW	This Product	Princep 4L or Princep BOW
Sand, loamy sand, sandy loam	1.1 lb	2 pt or 1.25 lb	0.73 lb	2.67 pt or 1.67 lb
Loam, silt loam, silt, clay loam, sand, clay loam, silty clay loam, sandy clay or silty clay with low organic matter	1.3 lb	2.4 pt or 1.5 lb	0.88 lb	3.2 pt or 2 lb
Dark, silt loam, silt, clay loam, sandy clay loam, silty clay loam, sandy clay, or silty clay with medium to high organic matter, and clay (including dark prairie soils of the Corn Belt)	1.6 lb	3 pt or 1.8 lb	1.07 lb	3.85 pt or 2.4 lb

*For control of above weeds

**For control of expected heavy weed infestations, including and tall sorghum

Paraquat + Plus: For control of existing vegetation and residual control where corn will be planted directly into a cover crop, established sod, or in previous crop residues, apply 2.2-3.3 lb. of this product and 1-2 pt. of Paraquat + Plus in 20-30 gal. of water per acre. Add 8 fl. oz. of a nonionic surfactant per 100 gal. of spray mixture. Add this product to spray tank, thoroughly mix with water, then add Paraquat + Plus and surfactant. Refer to the Paraquat + Plus label for further directions, limitations, and precautions.

Princep BOW plus Paraquat + Plus: Use as tank mixture with Princep BOW and Paraquat + Plus for control of existing vegetation and 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 BOW in water in spray tank, agitating until thoroughly mixed. Then add Paraquat + Plus and a nonionic surfactant, such as Riverside Activate

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(including dry beans), spring-seeded small grains, or small-seeded legumes and grasses the year following application as injury may occur.

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

Apply before planting, at planting, or after planting, as indicated in the directions below. See Corn section for weeds controlled.

Preplant (Broadleaf and grass control): Apply 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 before planting.

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

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

Soil Texture	Organic Matter	Broadcast Rate Per Acre
COARSE Sand, loamy sand, sandy loam	Any Level	
MEDIUM AND FINE Loam, silt loam, silt, clay loam, sandy clay loam, silty clay loam, sandy clay, silty clay	Under 1%	
	1-1.5%	1.7-2.2 lb
	Over 1.5%	2.2-2.6 lb

*Do not apply preplant in AZ, AR, FL, GA, LA, MS, NC, NM, OK, SC, TN, or TX. Do not apply preemergence in AZ, OK, or TX, except in non-irrigated OK and the TX Gulf Coast.

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

TANK MIXTURES FOR GRASS SORGHUM

Igran® BOW: Use as tank mixture for control of certain broadleaf and grass weeds in grain sorghum. Refer to Igran BOW label for all directions, weeds controlled, precautions, and limitations.

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

ATRAZINE 90 DF Atrazine—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 3.3 to 4.4 lb of Atrazine 90 DF 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 ATRAZINE 90 DF. 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 the list of weeds controlled, see ATRAZINE 90 DF APPLIED ALONE—Corn or Grain Sorghum—Preplant Incorporated or Preemergence (Page 5).

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: 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, 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.

thoroughly mix with water. Then add Paraquat + Plus followed by surfactant. Use the 2 pt. rate of Paraquat + Plus if weeds are 4-6 inches tall. This mixture will not control weeds higher than 6 inches. Apply to stubble ground. Treat only once during same fallow period. Refer to Paraquat + Plus label for further directions, precautions, and limitations.

If 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. Till before planting. For this product applied alone or in tank mixture with Paraquat + Plus, 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 outcrop pings, 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 ATRAZINE 90 DF alone by aircraft at a minimum upwind distance of 400 ft. from sensitive plants, or apply ATRAZINE 90 DF + Igran BOW at a minimum upwind distance of 500 ft. from sensitive plants. When applying ATRAZINE 90 DF plus Igran BOW by aircraft, use a minimum of 5 gal. of water per acre.

PROSO MILLET

For preplant or preemergence control of foxtails, kochia, common lambsquarters, redroot pigweed, Russian thistle, slim leaf lambsquarters and spotted spurge, apply 0.5 to 1 lb. per

acre, and mixtures apply before pigweed and lambsquarters reach 6 inches in height and before all other weeds reach 4 inches in height. In CO, western KS, NE, 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. Add 1 qt. of oil concentrate per acre for ground application. A cultivation may be necessary, if all weeds are not controlled or if weeds regrow.

Precautions for Applications with Emulsifiable Oil or Oil Concentrate in Water: See "Precautions for Applications with Emulsifiable Oil or Oil Concentrate in Water" in Corn section (Page 7).

Postemergence Broadleaf Weed Control with Surfactant (CO, western KS, NE, OK, TX, and desert regions of AZ and CA only): Apply 1.3 to 1.5 pt. 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 following application tends to cause excessive concentrations of herbicide in seed furrows, resulting in possible crop injury. Do not apply to furrow-planted sorghum until furrows are leveled (plowed in). Level deep planter marks or seed furrows before application. (2) Application to sorghum growing under stress caused by minor element deficiency or to sorghum growing 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.

Note: Do not graze or feed forage from treated areas for 21 days following application.

Rotational Crops: See "Rotational Crops" in Corn section (Page 11).

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

Wheat-Fallow-Wheat (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 rotation, broadcast 0.5 to 1.1 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 fallow period.

TANK MIXTURES FOR CHEMICAL FALLOW

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

Igran BOW: Use as tank mixture for control of certain broadleaf and grass weeds in wheat-sorghum fallow or wheat corn fallow rotations. Refer to Igran BOW label for directions, weeds controlled, precautions, and limitations.

Paraquat + Plus: If weeds are present at application, a tank mix with Paraquat + Plus may be used. Broadcast 3.3 lb. of this product plus 1.2 pt. of Paraquat + Plus in 20-60 gal. of water per acre by ground equipment. Add 0.5 pt. of a non-ionic surfactant, such as Riverside Activate, per 100 gal. of spray mixture. Add the ATRAZINE 90 DF to the spray tank first and thoroughly mix with water. Then add Paraquat + Plus followed by surfactant. Use the 2 pt. rate of Paraquat + Plus if weeds are 4-6 inches tall. This mixture will not control weeds higher than 6 inches. Apply to stubble ground. Treat only once during same fallow period. Refer to Paraquat + Plus label for further directions, precautions, and limitations.

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

Paraquat + Plus: If weeds are present at application, a tank mix with Paraquat + Plus may be used. Broadcast 0.5 to 1.1 lb. of this product plus 1.2 pt. of Paraquat + Plus in 20-60 gal. of water per acre by ground equipment. Add 0.5 pt. of a non-ionic surfactant, such as Riverside Activate, per 100 gal. of spray mixture. Add the ATRAZINE 90 DF to spray tank first and

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 ATRAZINE 90 DF Applied Alone—Corn or Grain Sorghum—Preplant Incorporated or Preemergence

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

New seedling: Broadcast 2.2 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.

Establishment Stands: Broadcast 2.2 lbs. per acre in April or early May, before weeds emerge.

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

Rotational Crops: See "Rotational Crops" in Corn section (Page 11)

PERENNIAL RYEGRASS GROWN FOR SEED (Pacific Northwest Only)

For control of annual ryegrass and rattail fescue, broadcast 1.33 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.

SUGARCANE

For control of many broadleaf and grass weeds, including amaranths, crabgrass, wireweed, Florida paintbrush, foxtails,

Apply 4.4 lb/A of ATRAZINE 90 DF preemergence. Follow with one or two applications, as needed, at 3.3 lb/A postemergence to sugarcane and weeds.

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

Precautions: (1) Injury to sugarcane may occur when under moisture stress, when soil is of low absorptive capacity, or when land is first cropped to sugarcane. (2) Do not apply after "close-in." (3) Do not apply more than 11 lb/A to any one crop of sugarcane.

TURF GRASSES FOR SOD

St. Augustinegrass, Centipedegrass, and Zoysia Grass: Broadcast 2.2-4.4 lb. per acre according to soil texture to control those weeds listed under ATRAZINE 90 DF Applied Alone—Corn or Grain Sorghum—Preplant Incorporated or Preemergence (Page 5)

Muck or Peat	4.4 lbs.	Old Beds: Within 2 days after lifting sod
		New Beds: 3-4 days after springing or plugging
Sandy Soil	2.2 lbs.	Old Beds: Within 2 days after lifting sod
		New Beds: 7-10 days after springing or plugging

If weeds regrow, apply an additional 2.2 lbs. per acre on muck or peat, or 1.1 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, Florida paintbrush, sparrowgrass, and wireweed, broadcast 2.2-4.4 lb. per acre

2.2 lb. per acre on soils with 2% or higher organic matter.

Precaution: Make only one application per year.

Rotational Crops: See "Rotational Crops" in Corn section (Page 11)

RANGELAND

To control certain weeds, including cheatgrass (downy brome), common (annual) broomweed, little barley, medusa-head, 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 ATRAZINE 90 DF 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): Broadcast 0.9-1.1 lb. 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 0.5-1.1 lb. per acre in fall before ground freezes.

Southern Great Plains (OK, TX): Broadcast 1.2 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 0.5-0.8 lb. per acre by ground equipment in fall before ground freezes.

Bluegrass and intermediate wheatgrass may be injured by this product at recommended rates.

juniper and wiregrass, broadcast 2.2-4.4 lb. per acre of ATRAZINE 90 DF at time of planting or rangeland, 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 indicated otherwise. The 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 or interline as suggested with the final application being prior to "close-in." Do not exceed the rate of herbicide suggested for any one crop of sugarcane.

Note: Where high rates of ATRAZINE 90 DF are used alone, apply in a minimum of 1 gal. of water for each 1 lb. of product applied per acre.

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 ATRAZINE 90 DF alone by aircraft at a minimum upwind distance of 400 ft. from sensitive plants.

Florida

For control of emergent pelitory weed, Apply 0.4-0.6 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, pelitory (artillery) weed, and spiny amaranth, use one of the following methods at planting or rangeland.

1. Apply 4.4 lb./A preemergence. Follow with one or two applications, as needed, postemergence to sugarcane and weeds at 2.2 lb./A. Treat before weeds exceed 1.5 inches in height.
2. Apply 1.3 lb./A, as needed, at 2.2 lb./A postemergence to sugarcane and weeds. Treat before weeds exceed 1.5 inches in height.

Texas

Use ATRAZINE 90 DF for control of barnyardgrass, pigweed, purslane, and sunflower in plant or rangeland sugarcane.

ON NONCROPS LAND

ATRAZINE 90 DF provides long-term weed control on industrial sites, highway medians and shoulders, railroad rights of way, lumber yards, petroleum tank farms, and in non-crop areas on farms such as around buildings, equipment and fuel storage areas, along fences, and lawns. Do not use near adjacent desirable plants or in greenhouse, or injury may occur.

Apply before or soon after weeds begin growth. Make post-emergence 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 pound of product. Use more if practical.

Note: Do not allow livestock to graze treated areas.

Annual broadleaf and grass weeds (including barnyard grass, cheatgrass, crabgrass, lambsquarters, knotweed, puncturevine, and turkey mullein): Broadcast 5.3 11 1 lb. per acre.

Hard-to-bill annual and many perennial broadleaf and grass weeds (including bluegrass, burlcock, Canada thistle, dog-tail, orchardgrass, plantain, quackgrass, purpletop, red-top, and smooth brome): Broadcast 11 1 22 2 lb. per acre.

Hard-to-bill biennial and perennial weeds (including buff thistle and sowthistle): Broadcast 11 2 21 4 lb. per acre.

For longer residual control in regions of high rainfall and a long growing season, broadcast 22 2 44 4 lb. per acre.

For small areas, 4 oz. per 1,000 sq. ft. is equivalent to 11 1 1 lb.

Berthel® 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.

Igram® trademark of CIBA-GEIGY for terbuthylazine—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 Company for butylate.

before harvest and before weeds emerge. Repeat as necessary. Do not apply when rats are on ground during harvest period. Do not apply by air.

CONIFERS

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, lambert pine, loblolly pine, lodgepole pine (shore pine), arbutus pine, ponderosa pine, Scotch pine, slash pine, blue spruce, and Sitka spruce): Broadcast 2 2 4 4 lb. in a minimum of 5 gal. of water per acre by air or 20-40 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 atrazine before transplanting. In areas where spring and summer rainfall is inadequate to activate atrazine, apply during fall prior to spring transplanting.

For the list of weeds controlled, see ATRAZINE 90 DF Applied Alone—Corn or Grain—Sorghum—Preplant Incorporated or Preemergence (Page 5).

Quackgrass Control: Broadcast 4 4 lb. in a minimum of 5 gal. of water per acre by air or 20-40 gal. by ground between fall and early spring while trees are dormant and before quackgrass is more than 1 5 inches tall.

Note: Temporary injury to trees may occur following the use of atrazine on coarse-textured 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 ATRAZINE 90 DF by aircraft at a minimum upwind distance of 400 ft. from sensitive plants.

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 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.



RIVERSIDE / TERRA CORP.
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ACCEPTED

APR 9 - 1987

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 777-253