

# ATRAZINE 80 WP

1 of 5

Revised: 7/86

### ACTIVE INGREDIENTS:

Atrazine (2-chloro-4-ethylamino-6-n-propylamino-s-triazine)	78%
Related Compounds	4%
INERT INGREDIENTS	18%
TOTAL	100%

EPA Reg. No. 7901-188-AA  
EPA Est. No. 7901-CA-1

## KEEP OUT OF REACH OF CHILDREN WARNING AVISO

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicado completamente.

### HAZARD TO HUMANS & DOMESTIC ANIMALS

Causes eye irritation. Do not get in eyes or on clothing. Harmful if swallowed, or absorbed through skin. Avoid contact with skin. Wash thoroughly after handling. Remove and wash contaminated clothing before reuse.

In case of contact, for skin, wash with plenty of soap and water; for eyes, flush with water for 15 minutes and get medical attention.

### ENVIRONMENTAL HAZARDS

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.

ALL CROPS—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.

### RE-ENTRY STATEMENT

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

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. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Written and oral warnings must include the following information: "WARNING: Area treated with Atrazine on (date of application). Do not enter without appropriate protective clothing until dust has settled." REQUIRED PROTECTIVE CLOTHING: Long sleeved shirt, long legged pants, rubber gloves and a respirator approved by the Mining Enforcement and Safety Administration and by the National Institute for Occupational Safety and Health.

### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

STORAGE: Store in a cool, dry area.

DISPOSAL: Completely empty bag into application equipment. Dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

### DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Observe all cautions and limitations on labeling of all products used in mixtures. Do not apply to water drainage areas where runoff or flooding will contaminate ponds, lakes, or streams. This herbicide will control most annual broadleaf and grass weeds in corn, sorghum, sugarcane, pineapple, and certain other crops. It is also effective for control of most annual and many perennial broadleaf and grass weeds in non-crop areas and industrial sites. May be applied before or after weeds emerge. In each case where a range of rates is given, the lower rate should be used on light soils and soils low in organic matter; the higher rate should be used on heavy soils and soils high in organic matter. Since Atrazine 80 WP acts mainly through root absorption, its effectiveness depends on rainfall or irrigation to move it onto the root zone. Should weeds develop, a shallow cultivation or rotary hoeing will generally result in better weed control. It is a wettable powder that should be mixed with water and applied as a spray. Mix a slurry by adding to water. Pour the slurry into the spray tank during or after filling. Sufficient hydraulic (jet) or mechanical agitation must be provided during mixing and application to keep the material in suspension. Wash sprayer thoroughly after use. It is noncorrosive to equipment and metal surfaces, nonflammable, and has low electricity conductivity.

NOTE: J. R. Simplot Company does not recommend the use of Atrazine 80 WP in combination with other herbicides or oils except as specifically described on the label.

GROUND APPLICATION: For uniform distribution in broadcast applications, Tee-Jet 8003 or 8004 fan type or similar nozzles with openings of equal or greater size should be used. For band applications, use Tee-Jet 8003-E or 8004-E or similar type nozzles. Screens in nozzles as well as those in suction and in-line nozzles should be no finer than 50-mesh size. A suitable pump with capacity to deliver 10 to 12 gpm should be used and operating pressures should be 35 to 40 psi. Use 20 to 40 gallons of water per acre to assure even coverage unless otherwise specified.

AERIAL APPLICATION: Use only where broadcast applications are specified. Apply a minimum of 1 gallon of water for each 1 lb. to 1 1/2 lbs. of Atrazine 80 WP to be applied per acre.

Avoid applications under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur. INSTRUCTIONS FOR SAFE HANDLING: Avoid application directly to humans or animals. Although it is unnecessary for flagmen or loaders to wear protective clothing or equipment, care should be taken to avoid inhalation of dust or spray mist, or prolonged contact with skin. Flagmen and loaders should wash thoroughly before eating and at the end of each day's operation.

CORN: One application will control most annual cereals, yellow foxtail, green foxtail, wild quackgrass, pigweed, ragweed, nightshade, purple plantain using 2 1/2 to 5 pounds per acre at mid-

For preplant and preemergence applications, no water is a carrier for Atrazine 80 WP. Do not use crop injury.

PREPLANT — Broadcast in the spring after plow during or after final seedbed preparation. If soil is 80 WP. Best results have been obtained when it is PREEMERGENCE - Apply during or shortly after POSTEMERGENCE - Apply before weeds emerge. NOTE: For band applications, reduce the broadcast

Soil Texture	
Light Soils: Sands, loamy sands s-d sandy loams	2
Medium Soils: Silt & clay loams that are low in organic matter	3
Heavy Soils: Silt & clay loams with medium to high organic matter and clays (including the dark prairie soils of the Corn Belt)	3
Peats, mucks, and high organic clays (Apply postemergence only)	3

\*Based on 40 inch row spacing. For other band

LAYBY TREATMENT — Broadcast 1 1/2 to 2 1/2 lbs. weeds are 1 1/2 inches high. Apply when corn is 2 to 4 inches of cornstalks to avoid corn. Postemergence Weed Control with Atrazine 80 WP. The addition of oil to Atrazine 80 WP in water sprays under certain conditions the use of oil may seriously affect directions, procedures and precautions given by

GROUND APPLICATION — Broadcast 2 1/2 lbs. per acre after emergence but before weeds reach 1 1/2 in.

AERIAL APPLICATION — Broadcast 2 1/2 lbs. and weed emergence but before weeds reach 1 1/2 in.

For combining with Atrazine 80 WP, use a crop emulsifier. Several oils of this type are on the market and/or crop injury.

PROCEDURES — (1) Thoroughly clean sprayer or corn damage or sprayer clogging may result. Thoroughly wetting it. (2) Fill the spray tank with in operation, add the product slurry. (3) Add the refilling to prevent a buildup of oil in the tank. Keep water in the spray mixture still remaining in the tank with a strong detergent solution or solvent. (4) Do not use water containing a detergent.

NOTE: (1) Do not use oil Atrazine 80 WP sprays when treating inbred lines or any breeding stock. Cars, or other materials is not recommended and crop injury. (4) Store and handle emulsifiable emulsify property when added to the tank. (5) Do in water per season.

NORTHERN NUTGRASS ON YELLOW NUTSED plant, preemergence, or postemergence before growth, cultivate within 2 to 3 weeks. If applied

QUACKGRASS CONTROL ON LAND GOING IN the fall or spring and plow 1 to 3 weeks later. Broadcast during or after planting but before weeds are 1 1/2 annual broadleaf and grass weeds.

Single Application: Broadcast 3 1/2 lbs. to 5 lbs. per

PRECAUTIONS—(1) Do not apply more than 5 lb. should not be planted to any crop except corn in crop, plow (no-tillage or disc-plow) and thorough spring-seeded crops, regardless of the rate used, sorghum the next year or injury may occur. (5) If it in a band application, a crop of unweeded corn or intermountain areas of the West where rainfall control weeds in corn only when corn is to follow. (7) In western Minnesota and eastern parts of the followed with soybeans if the broadcast rate applied may occur. (8) Do not plant sugar beets, broad-seeded legumes and grasses the year following application to livestock for 21 days following applica-

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**CORN:** One application will control most annual broadleaf and grass weeds such as barnyardgrass, witchgrass (*Panicum capillare*), yellow foxtail, green foxtail, wild oat, large (heavy) crabgrass, giant foxtail, velvetleaf, morningglory, lambsquarters, pigweed, ragweed, nightshade, purslane, and marestail. May be applied either before planting, at planting, or after planting using 2½ to 5 pounds per acre as indicated below.

For preplant and preemergence applications, nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier for Atrazine 80 WP. Do not apply after corn is emerged as there is danger of liquid fertilizers causing crop injury.

**PREPLANT** — Broadcast in the spring after plowing at the rate indicated in the table below. Application may be made before, during or after final seedbed preparation. If soil is tilled or worked after application, avoid deep incorporation of Atrazine 80 WP. Best results have been obtained when it is applied within two weeks prior to planting.

**PREEMERGENCE** — Apply during or shortly after planting prior to weed emergence at the rate indicated in the table below.

**POSTEMERGENCE** — Apply before weeds exceed 1½ inches in height, at the rate indicated in the table below.

**NOTE:** For band applications, reduce the broadcast rate in proportion to the area treated.

Soil Texture	Rate per acre of Atrazine 80 WP		
	Broadcast in 20 to 40 gals. of water per acre	20 inch Band* in 10 to 20 gals. of water per acre	13 inch Band* in 7 to 14 gals. of water per acre
<b>Light Soils:</b> Sands, Loamy sands and sandy loams	2½ lbs.	1½ lbs.	1½ oz.
<b>Medium Soils:</b> Silt & clay loams that are low in organic matter	3 lbs.	1½ lbs.	1 lb.
<b>Heavy Soils:</b> Silt & clay loams with medium to high organic matter and clays (including the dark prairie soils of the Corn Belt)	3½ lbs.	1 lb. 14 oz.	1½ lbs.
Peats, mucks, and high organic clays (Apply postemergence only)	3½ lbs.	1 lb. 14 oz.	1½ lbs.

\*Based on 40 inch row spacing. For other band or row widths, adjust the rate in proportion to the area actually treated.

**LAYBY TREATMENT** — Broadcast 1½ to 2½ lbs. per acre in 20 to 40 gallons of water or sufficient nitrogen solution before weeds are 1½ inches high. Apply when corn is 20 to 30 inches high. When nitrogen solutions are used direct the spray to the lower 3 to 4 inches of cornstalks to avoid corn foliage injury. Agitation in the spray tank during application is essential. Postemergence Weed Control with Atrazine 80 WP and Emulsifiable Oil in water.

The addition of oil to Atrazine 80 WP in water sprays may speed the activity and provide quicker kill of weeds. However, under certain conditions the use of oil may seriously damage corn. To minimize the possibility of damage to corn, follow the directions, procedures and precautions given below.

**GROUND APPLICATION** — Broadcast 2½ lbs. of Atrazine 80 WP and 1 gallon of emulsifiable oil\* in 20 to 40 gallons of water per acre after emergence but before weeds reach 1½ inches in height.

**AERIAL APPLICATION** — Broadcast 2½ lbs. and ½ gallon of emulsifiable oil\* in not less than 5 gallons of water per acre after weed emergence but before weeds reach 1½ inches in height.

\*For combining with Atrazine 80 WP, use a crop oil designated for use with this product containing at least 1 percent suitable emulsifier. Several oils of this type are on the market. Oils contaminated with water or other materials can cause compatibility problems and/or crop injury.

**PROCEDURES** — (1) Thoroughly clean sprayer prior to use. Do not use sprayer contaminated with 2,4-D or other materials as corn damage or sprayer clogging may result. (2) In a separate container, make a thin slurry of Atrazine 80 WP in water, thoroughly wetting it. (3) Fill the spray tank with water, allowing for the addition of this product. (4) With the agitation system in operation, add the product slurry. (5) Add the emulsifiable oil last. (6) Empty the tank as completely as possible before refilling to prevent a buildup of oil in the tank. Keep the agitation system in operation to avoid a separation of the oil from the water in the spray mixture still remaining in the tank. (7) If an oil film starts to build up in the tank, drain the tank and clean out with a strong detergent solution or solvent. (8) Clean the sprayer thoroughly immediately after use by flushing the system with water containing a detergent.

**NOTE:** (1). Do not use oil Atrazine 80 WP sprays when corn is under stress from prolonged cold, wet weather, poor fertility, or other factors or when corn is wet and succulent from recent rainfall as crop injury may occur. (2). Do not use oils in sprays when treating inbred lines or any breeding stock as injury may occur. (3). Adding other insecticides, herbicides, liquid fertilizers, or other materials is not recommended and emulsifiable oil in water because they may cause compatibility problems or crop injury. (4). Store and handle emulsifiable oil carefully. Oil contaminated with even a small amount of water may not emulsify properly when added to the tank. (5). Do not make more than one application of Atrazine 80 WP and emulsifiable oil in water per season.

**NORTHERN NUTGRASS OR YELLOW NUTSEDGE (CYPERUS ESCULENTUS) CONTROL** — Broadcast 5 lbs. per acre preplant, preemergence, or postemergence before nutgrass is more than 1½ inches high. If applied before nutgrass begins growth, cultivate within 2 to 3 weeks. If applied after nutgrass has emerged, cultivate within 10 to 14 days.

**QUACKGRASS CONTROL ON LAND GOING INTO CORN PRODUCTION** — Same Application: Broadcast 2½ lbs. per acre in the fall or spring and plow 1 to 3 weeks later. Broadcast a second application at the rate of 2½ lbs. per acre in the spring before, during, or after planting but before weeds are 1½ inches high. This split application will control both quackgrass and most annual broadleaf and grass weeds.

Single Application: Broadcast 3½ lbs. to 5 lbs. per acre in the fall or spring. Plow 1 to 3 weeks after application.

**PRECAUTIONS** — (1). Do not apply more than 5 lbs. of this product to corn in any one year. (2). Land treated with this product should not be planted to any crop except corn until the following year or injury may occur. (3). Following harvest of a treated crop, plow (moldboard or disc-plow) and thoroughly till the soil in the fall or spring to minimize possible injury to rotational spring-seeded crops, regardless of the rate used. (4). If it is applied after June 10, do not rotate with crops other than corn or sorghum the next year or injury may occur. (5) If it is used at a broadcast rate higher than 3½ lbs. per acre (or comparable rates in a band application), a crop of untreated corn or sorghum should precede the next rotational crop. (6). In the high plains and intermountain areas of the West where rainfall is sparse and erratic or where irrigation is required, use Atrazine 80 WP to control weeds in corn only when corn is to follow or a crop of untreated corn or sorghum is to precede other rotational crops. (7). In western Minnesota and eastern parts of the Dakotas, Nebraska and Kansas, corn treated with this product should not be followed with soybeans if the broadcast rate applied was more than 2½ lbs. per acre (or comparable rate in a band) or injury may occur. (8). Do not plant sugar beets, tobacco, vegetables (including dry beans), spring-seeded small grains, or small-seeded legumes and grasses the year following application or injury may occur. (9). Do not graze treated area or feed treated forage to livestock for 21 days following application.

**ACCEPTED**

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Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 7001-188

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3 of 5

**CHEMICAL FALLOW**

**Summer Fallow-Winter Wheat (Pacific Northwest Only):** To control annual weeds and grasses such as spiny bromegrass (sheepgrass) and mustard as well as volunteer grain.

**One Year Fallow Program:** Broadcast 1/2 lb. Atrazine 80 WP per acre in combination with 2/3 lb. of product labels or state recommendations for rate). Apply to stubble following fall rains after volunteer grain has begun growth (but not later than January 1). If weeds germinate in the spring, they should be controlled with stubble-tillage tillage.

Do not make a second application. Do not plant spring cereals; follow only with winter wheat.

**Two-year Fallow Program:** Broadcast 2 lbs. Atrazine 80 WP per acre in combination with 2/3 lb. of product labels or state recommendations for rate). Apply to stubble following fall rains after volunteer grain has begun growth (but not later than January 1). Do not plant any crop for 2 years following application and then only to winter wheat.

**PRECAUTIONS:** Apply with ground sprayers equipped with mechanical or hydraulic jet application, using a maximum of 70 gallons of water per acre. Avoid overlapping. Treat only soils classified as silt loam, clay loam, or clay, do not treat sandy soils. Do not graze livestock on growing wheat within 5 months after application.

**WHEAT-SORGHUM-FALLOW**

To control annual broadleaf and grass weeds following wheat harvest and continuing into the following sorghum crop when grown under minimum tillage. Broadcast 3 1/2 lbs. per acre to the wheat stubble immediately following wheat harvest. Use 10 to 40 gallons of water per acre to assure thorough coverage. If weeds are present, remove them with a sweep plow or other suitable implement after application.

**NOTE:** Sorghum should be planted into wheat stubble in the spring following treatment with minimum disturbance of the soil. Use a surface planter or a planter leaving a shallow furrow. If weeds are present at planting, remove them with a sweep plow or other suitable implement before planting. Do not apply following sorghum harvest.

**PRECAUTIONS:** Use only on a silt loam or heavier soil. Wheat-sorghum-fallow cropping sequence must be followed. Do not graze treated area or feed treated forage to livestock. Do not plant treated area to any crop other than those on this label within 18 months following treatment.

**SUGARCANE**

For control of most nonrhizomatous weeds, such as crabgrass, junglerice, wiregrass, foxtail, amaranth, Florida's paintbrush, fireweed and similar plants: Broadcast 2 1/2 to 5 lbs. per acre in 20 to 50 gallons of water for adequate coverage of the soil surface at time of planting or ratooning, but before the cane emerges. One additional application may be made over the cane as it emerges, and two additional applications may be made in-line after emergence, as directed spray.

For control of emerged Perennial Weed (artillery weed) Florida Only: Apply 1/2 to 1 lb. per acre in at least 40 gallons of water per acre.

Directed spray Add 2 quarts of surfactant for each 50 gallons of spray and be sure weed foliage is thoroughly covered. **PRECAUTIONS:** Do not apply Atrazine 80 WP after "close-in". Do not apply more than 12 1/2 lbs. of Atrazine 80 WP to any one crop of cane.

**TURF GRASSES FOR SOD PRODUCTION**

(St Augustine, Centipede, and Zoysia Grass): Broadcast 2 1/2 to 5 lbs. per acre according to soil type as indicated below. Apply in 20 to 40 gallons of water per acre for thorough coverage.

Muck	5 lbs.	OLD BED: Within 2 days after lifting of sod
		NEW BEDS: 3 to 4 days after sprigging or plugging
Sandy Soils	2 1/2 lbs.	OLD BEDS: Within 2 days after lifting of sod
		NEW BEDS: 7 to 10 days after sprigging or plugging

Apply additional 2 1/2 lbs. on muck or peat, or 1 1/2 lbs. on sandy soils, if weed growth recurs.

**PRECAUTIONS:** Do not apply within 30 days of cutting or lifting. Do not apply Atrazine 80 WP in combination with surfactants or other spray additives, as these combinations may cause injury. Do not use north of North Carolina.

**FRUIT AND NUT CROPS**

**MACADAMIA NUTS:**

For preemergence control of many broadleaf and grass weeds such as crabgrass, foxtail, wiregrass, Florida's paintbrush, Spanish needles, and fireweed: Broadcast 2 1/2 to 5 lbs. in 50 gallons of water per acre before harvest and just prior to weed emergence. Repeat applications as necessary. Do not spray when nuts are on the ground during harvest period. Do not make aerial applications.

**PINEAPPLE:**

For the control of purslane, Spanish needles, annual grasses, and annual bindweed, ageratum, amaranth, rattlegod, Florida's indigo, papaya, and other similar weed species: Make an initial application of up to 8 lbs. per acre as a blanket spray immediately after planting or following plant crop harvest. Make additional blanket or interspace applications of up to 2 lbs. per acre of soil actually sprayed, at 1 to 2 month intervals as needed, prior to differentiation. Applications should be made in 20 to 40 gallons of water per acre to assure thorough coverage.

**PRECAUTIONS:** Do not apply more than 37 1/2 lbs. Atrazine 80 WP per acre per cycle. Do not apply within 46 days of fruit harvest, or forage harvest if forage is to be fed to livestock. Repeated monthly applications to plant foliage may slow plant growth and delay fruiting.

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Sorghum and Sorghum-sudan Hybrids (Grain and Forage Types). May be used to control annual broadleaf and grass weeds in sorghum. Apply at the rate indicated in the tables below. Weeds should not be more than 1 1/2 inches high at the time of application. When making band applications, reduce the broadcast rate per acre in proportion to the area treated.

Preplant** and Preemergence Application (In Eastern and Central Nebraska and Northeast Kansas Only)			
Broadleaf and Grass Weed Control	Rate Per Acre of Atrazine 80 WP		
Soil Texture	Broadcast in 20 to 40 gals. of water/acre	20 inch Band* in 10 to 20 gals. water/acre	13 inch Band* in 7 to 14 gals. of water/acre
Sand to sandy loam, eroded slopes and soils low in organic matter	DO NOT USE		
Other soils (shallow incorporation may improve control)	2 1/2 to 3 lbs.	1 1/2 to 1 3/4 lbs.	13 oz. to 1 lb.

\*based on 40 inch row spacing. \*\*see preplant recommendation for corn.

Non-pressure nitrogen solutions or complete liquid fertilizers may be substituted for all or part of the water as a carrier for Atrazine 80 WP. Do not apply nitrogen solutions or fertilizers after crop emergence as damage may result.

Postemergence Application*				
Weeds to be controlled	Soil Texture	Stage or height of sorghum at treatment	Rate per Acre of Atrazine 80 WP	
			Broadcast in 20 to 40 gals. of water per acre	**20 inch Band in 10 to 20 gals. of water per acre
Broadleaf and Grass Weeds	Sand or loamy sand Sand loam		DO NOT USE	
	Silt loam to sandy clay loam Oilon and Pullman clay soils Silty clay loams and heavier soils	Completely emerged	2 1/2 to 3 lbs.	1 1/2 to 1 3/4 lbs.
		At least 6 inches high	2 1/2 to 3 lbs.	1 1/2 to 1 3/4 lbs.
	Completely emerged	3 1/2 lbs.	1 lb., 14 oz.	1 1/2 lbs.
Broadleaf Weeds	Sandy loams and heavier soils in Oklahoma, New Mexico, Texas, Western Kansas, Colorado and desert regions of Arizona and California only	At least 6 inches high	1 1/2 lbs. plus 1/2 to 1 1/2 pts. surfactant	1/2 lb. plus 1/2 to 1/2 pt. surfactant

\*Up to "close-in". \*\*Based on 40 inch row spacing.

The addition of oil to postemergence Atrazine 80 WP in water sprays may speed the activity of Atrazine 80 WP and provide quicker kill of annual broadleaf weeds. However, under certain conditions, the use of oil may seriously damage sorghum. To minimize the possibility of damage to sorghum follow the directions and procedures given below. Apply only in New Mexico, Oklahoma and Texas.

**Ground Application:** Broadcast 1 1/2 lbs. of Atrazine 80 WP and 1 gallon of emulsifiable oil in 20 to 40 gallons of water per acre when sorghum is 6 to 10 inches in height and before it reaches the boot stage. Treat before broadleaf weeds reach 6 inches in height.

**Aerial application:** Broadcast 1 1/2 lbs. of Atrazine 80 WP and 1/2 gallon of emulsifiable oil in no less than 5 gallons of water per acre when sorghum is 6 to 10 inches in height and before it reaches the boot stage. Treat before broadleaf weeds reach 6 inches in height.

\*For combining with Atrazine 80 WP, use a crop oil designated for use containing at least 1% suitable emulsifier. Several oils of this type are on the market. Oils contaminated with water or other materials can cause compatibility problems and/or crop injury.

**PROCEDURES—**(1). Thoroughly clean sprayer prior to use. Do not use sprayer contaminated with 2,4-D or other materials as sorghum damage or sprayer clogging may result. (2). In a separate container, make a thin slurry of Atrazine 80 WP in water. Thoroughly wetting the Atrazine 80 WP. (3). Fill the spray tank with water, allowing for the addition of the Atrazine 80 WP. (4). With the agitation system in operation, add the Atrazine 80 WP slurry. (5). Add the emulsifiable oil last. (6). Empty the tank as completely as possible before refilling to prevent a buildup of oil in the tank. Keep the agitation system in operation to avoid a separation of the oil from the water in the spray mixture still remaining in the tank. (7). If an oil film starts to buildup in the tank, drain the tank and clean out with a strong detergent solution or solvent. (8). Clean the sprayer thoroughly immediately after use by flushing the system with water containing a detergent.

**NOTE:** (1). Do not use oil in Atrazine 80 WP sprays when sorghum is under stress from prolonged cold, wet weather, poor fertility, or other factors or when sorghum is wet and succulent from recent rainfall as crop injury may occur. (2). Do not use oil in sprays when treating inbred lines or any breeding stock as injury may occur. (3). Adding other insecticides, herbicides, liquid fertilizers, or other materials is not recommended because they may cause compatibility problems or crop injury. (4). Store and handle emulsifiable oil carefully. Oil contaminated with even a small amount of water may not emulsify properly when added to the tank. (5). Do not make more than one application of Atrazine 80 WP and emulsifiable oil in water per season.

**PRECAUTIONS:** (1). Heavy rains immediately following application tend to result in excessive concentrations of herbicide in seed furrows, resulting in possible crop injury. Applications to furrow-planted sorghum should not be made until furrows are leveled (prowed-in). Deep planter marks or seed furrows should also be leveled before application. (2). Application made to sorghum growing under stress caused by minor element deficiency or to sorghum growing on highly calcareous soils may result in crop injury. (3). Do not plant any rotational crops other than those specified in the Suggestions for Rotational Crops section below for 18 months following application. (4). Do not graze or feed forage from treated areas for 21 days following application. (5). Following harvest of a treated crop, plow (moldboard or disc-plow) and thoroughly till the soil in the fall or spring to minimize possible injury to rotational spring-seeded crops, regardless of rate used.

**Suggestions for Rotational Crops:** (1). Sorghum or corn may be planted the year following treatment. (2). All other rotational crops may be planted 18 months after application. (3). When the broadcast rate used does not exceed 1 1/2 lbs. per acre, fall wheat may be planted 15 months after application.

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5 of 5

**FOREST AND CHRISTMAS TREE PLANTATIONS:**

Douglas Fir, Grand Fir, Noble Fir, White Fir, Lodgepole Pine, Penzance Pine and Scotch Pine (Pacific Northwest—West of Cascade only).

**Annual broadleaf and grass weed control:** Broadcast 2 1/2 to 5 lbs. in 20 to 40 gallons of water per acre to assure thorough coverage. For band application, reduce the rate of Atrazine 80 WP and volume of water in proportion to the area treated. For example, when treating a 4 foot band over trees planted in rows 8 feet apart, apply 1 1/2 to 2 1/2 lbs. per acre. Apply between fall and early spring while trees are dormant or soon after transplanting and before weeds are 1 1/2 inches high.

**Quackgrass control:** Broadcast 5 lbs. per acre in 20 to 40 gallons of water for adequate coverage. Apply in fall or early spring while trees are dormant and before weed seedlings are more than 1 1/2 inches high. This application will also control most annual broadleaf and grass weeds.

**PRECAUTIONS:** Do not graze treated area. Do not apply to seedbeds. Do not make more than one application per year.

**NON-SELECTIVE WEED CONTROL ON NON-CROP LAND**

Apply Atrazine 80 WP at rates recommended below before or soon after weeds begin growth. Postemergence applications should be made when weeds are young and actively growing. Use the higher rates on heavy clay and muck soils. Do not contaminate domestic or irrigation water supplies, or lakes, streams, or ponds.

Atrazine 80 WP can be used to provide long-term weed control on industrial sites, highway medians and shoulders, railroad rights-of-way, lumberyards, petroleum tank farms, and in non-crop areas on farms, such as around buildings, equipment and fuel storage areas along fences and lanes.

Use sufficient water to assure thorough coverage. Use at least 1 gallon of water for each pound of Atrazine 80 WP, more if practical. Mechanical bypass or jet agitation is necessary to keep Atrazine 80 WP in suspension during application.

To control most annual broadleaf and grass weeds (such as barnyardgrass, cheatgrass, crabgrass, lambsquarters, foxtail, rigweed, puncturevine, and turkey mullein): Broadcast 6 to 12 1/2 lbs. per acre.

To control hard-to-kill annual and many perennial broadleaf and grass weeds (such as bluegrass, burdock, Canada thistle, dogpaw, orchardgrass, plantain, quackgrass, purple top, redtop and smooth brome): Broadcast 12 1/2 to 25 lbs. per acre.

To control hard-to-kill biennial and perennial weeds (such as bull thistle and southwistle): Broadcast 25 to 50 lbs. per acre.

For longer residual control in regions of high rainfall and a long growing season: Broadcast 25 to 50 lbs. per acre.

For small areas, 4 1/2 ounces per 1,000 sq. ft. is equivalent to 12 1/2 lbs. per acre.

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**J. R. SIMPLOT COMPANY  
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