

RESTRICTED USE PESTICIDE

(GROUND WATER CONCERNS)

FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.

THIS PRODUCT IS A RESTRICTED USE HERBICIDE DUE TO GROUND WATER CONCERN. USERS MUST READ AND FOLLOW ALL PRECAUTIONARY STATEMENTS AND INSTRUCTIONS FOR USE IN ORDER TO MINIMIZE POTENTIAL FOR ATRAZINE TO REACH GROUND WATER.

ATRAZINE 4L HERBICIDE

ACTIVE INGREDIENTS:	43.0%
Atrazine (2-chloro-4-ethylamino-6-isopropylamino-s-triazine)	40.8%
Related Compounds	2.2%
INERT INGREDIENTS:	57.0%
TOTAL	100.0%

ATRAZINE 4L CONTAINS 4 LBS. ACTIVE INGREDIENTS PER GALLON.

EPA REG. NO. 2749-336-AA
EPA EST. NO. 9779-AR-13

KEEP OUT OF REACH OF CHILDREN

CAUTION
SEE BELOW FOR ADDITIONAL PRECAUTIONARY STATEMENTS

SHAKE WELL BEFORE USING

NET CONTENTS: 2 1/2 GAL.

26844

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PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS **CAUTION**

Harmful if swallowed. Wash thoroughly after handling. Avoid contact with skin, eyes and clothing. Avoid breathing spray mist. Users are required to wear long sleeve shirts and long pants or equivalent, chemical resistant gloves, and boots (waterproofed). In addition, persons involved in mixing/packing operations are required to use chemical resistant rubber or neoprene gloves and a face shield or goggles.

ENVIRONMENTAL HAZARDS

Do not apply directly to lakes, streams, ponds, or wetlands by direct applications, cleaning of equipment or disposal of waste. Do not contaminate water through disposal of equipment washwaters.

Do not apply when weather conditions favor drift from areas treated. 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.

Ground water contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material. This product may not be mixed/loaded, or used within 50 feet of all wells including abandoned wells, drainage wells, and sink holes.

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 apply this product through any type of irrigation system. Postemergence application to corn and sorghum must be made before corn and sorghum reaches 12 inches in height. The maximum application rate for corn and sorghum is 3 lbs. a.i. per acre per calendar year. Applications for quackgrass suppression in corn and sorghum are restricted to a spring application only. No fall applications are permitted.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not give anything by mouth to an unconscious person. Get medical attention.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

IF IN EYES: Flush with water for 15 minutes. Get medical attention.

DIRECTIONS FOR USE

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

REENTRY STATEMENT

Do not enter treated areas without protective clothing until sprays have dried. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Do not apply this product in such a manner as to directly or through drift expose workers or other persons.

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

Written or oral warnings must include the following information.

CAUTION

Area treated with ATRAZINE 4L on (date of application). Do not enter without appropriate protective clothing until spray has dried. In case of accidental exposure, refer to STATEMENT OF PRACTICAL TREATMENT. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage or disposal. Do not store under conditions which might adversely affect the container or its ability to function properly. Such conditions include, but are not limited to, positioning of the container in storage, storage temperature, potential for crushing, or damage due to stacking, and penetration of moisture.

STORAGE: Store in a safe manner. Store in original container only. Store in cool, dry place. Reduce stacking height where local conditions, such as humidity or pallet overhang can affect package strength.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. 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 and Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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

ATRAZINE 4L herbicide controls most annual broadleaf and grass weeds in corn and sorghum.

Apply at the rates given under each crop before or after weeds emerge. Use lower rates on light soils and low organic matter soils. Use higher rates on heavy soils and high organic matter soils.

Atrazine acts mainly through root absorption so rainfall or irrigation is needed to move it into the root zone. Should weeds develop, a shallow cultivation or rotary hoeing will generally result in better weed control. Avoid using Atrazine near adjacent desirable trees, shrubs, or plants, or injury may occur.

ATRAZINE 4L HERBICIDE

EPA REG. NO. 2749-336-AA

APPLICATION PROCEDURES

ATRAZINE 4L, a liquefied formulation, should be mixed with water or liquid fertilizer and applied as a spray. Pour ATRAZINE 4L into the tank during or after filling. Hydraulic (jet) or mechanical agitation is recommended during mixing and application to keep the material in suspension. All return lines to the tank must discharge below liquid level and agitation should not be so violent as to cause air bubbles to form in the liquid. Wash sprayer thoroughly after use.

Ground Application: Apply ATRAZINE 4L in 10-40 gallons of water per acre to assure even coverage unless otherwise specified. Use TeeJet 8002, 8003, or 8004 fan type or other appropriate nozzles with equal or greater size openings for broadcast applications. Use TeeJet 8002-E, 8003-E, or 8004-E or similar nozzles for band applications. Screen in nozzles and in suction and in-line strainers should be no finer than 50-mesh. Use a pump with capacity sufficient to maintain 35-40 psi operating pressure.

Aerial Application: Use only where broadcast applications are specified. Apply a minimum of 1 gallon of water for each 2 pints of ATRAZINE 4L to be applied per acre. Do not apply where uniform coverage cannot be obtained or where excessive spray drift may occur. Avoid application directly to animals or humans. Flagmen or loaders should avoid inhalation or spray mist to contact with skin and should wash thoroughly before eating and at the end of each day's operation.

Post-emergence Weed Control with Atrazine plus Emulsifiable Oil in Water: The addition of oil to Atrazine in water sprays may speed the activity of Atrazine and provide quicker kill of weeds. However, under certain conditions the use of oil may seriously damage corn or sorghum. To minimize the possibility of damage, follow directions, procedures, and precautions given below.

For combining with Atrazine, use a crop oil designated for use with Atrazine containing at least 1% suitable emulsifier. Oils contaminated with water or other materials can cause compatibility problems and/or crop injury.

Equipment Procedures for Atrazine and Emulsifiable Oil: 1. Thoroughly clean sprayer prior to use. Do not use sprayer contaminated with 2, 4-D or other materials as crop damage or sprayer clogging may result. 2. Fill the spray tank with water, allowing for the addition of the Atrazine. 3. With the agitation system in operation, add the Atrazine. 4. Add the emulsifiable oil last. 5. Empty the tank as completely as possible before refilling to prevent a buildup of oil in the tank. 6. Stop 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 in Atrazine sprays when corn or sorghum is under stress from prolonged cold, wet weather, poor fertility, or other factors or when corn or sorghum is wet and succulent from 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. Store and handle emulsifiable oil carefully. Oil contaminated with even a small amount of water may not emulsify properly when added to the tank.
4. Do not make more than one application of Atrazine and emulsifiable oil in water per season.
5. All return lines to the tank must discharge below liquid level.

DIRECTIONS FOR USE

CORN

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

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

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

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

Pre-emergence: Apply during or shortly after planting prior to weed emergence at the rate indicated below.

Post-emergence: Apply before weeds exceed 1 1/2 inches in height at the rate indicated below.

Soil Texture	Rate per acre of ATRAZINE 4L		
	Broadcast in 10-40 gals. of water/A	20-in. band* in 5-20 gals. of water/A	13-in. band* in 4-14 gals. of water/A
Light soils: Sands, loamy sands and sandy loams	4 pints	2 pints	1 1/4 pints
Medium soils: Silt and clay loams that are low in organic matter	4 3/4 pints	2 1/2 pints	1 1/2 pints
Heavy soils: Silt and clay loams with medium to high organic matter and clays	6 pints	3 pints	2 pints
Peats, mucks, and high organic clays (Apply post-emergence only)	6 pints	3 pints	2 pints

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

Northern Nutgrass or Yellow Nutsedge (*Cyperus esculentus*) Suppression: Broadcast 6 pts. per acre preplant, pre-emergence, or post-emergence before nutgrass is more than 1 1/2 inches high. If applied before nutgrass begins growth, cultivate within 2-3 weeks. If applied after nutgrass has emerged, cultivate within 10-14 days.

Quackgrass Suppression on Land Going Into Corn Production:

Split Application: Broadcast 3 pts. per acre in the spring. Broadcast a second application at the rate of 3 pts. per acre in the spring before, during or after planting, but before weeds are 1 1/2 inches high.

Single Application: Broadcast 6 pts. per acre in the spring. Plow 1-3 weeks after application.

Post-emergence weed control with Atrazine plus emulsifiable oil in water:

Ground Application: Broadcast 4 pts. of Atrazine and 1 gal. of emulsifiable oil in 20-40 gals. of water per acre after emergence but before weeds reach 1 1/2 inches in height.

Aerial Application: Broadcast 4 pts. of Atrazine and 1/2 gal. of emulsifiable oil in no less than 5 gals. of water per acre after weed emergence but before weeds reach 1 1/2 inches.

Precautions: 1) Do not apply more than 6 pts. per acre of ATRAZINE 4L to corn in any one year. 2) Land treated with Atrazine 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 disklow) and thoroughly till the soil in fall or spring to minimize possible injury to rotational spring-seeded crops, regardless of the rate used. 4) If Atrazine is applied after June 10, do not rotate with crops other than corn or sorghum the next year or injury may occur. 5) If ATRAZINE 4L is used at a broadcast rate of 6 pts. per acre (or comparable rates in a band application with simazine), 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 to control weeds in corn only when corn is to follow corn or a crop of untreated corn or sorghum is to precede other rotational crops. 7) In western Minnesota and eastern parts of the Dakotas, Nebraska and Kansas, corn treated with Atrazine should not be followed with soybeans if the broadcast rate applied was more than 4 pts. per acre (or comparable rate in a band) or injury may occur. 8) Do not plant sugar beets, tobacco, vegetables (including dry beans), spring-seeded, small grains, or small-seeded legumes and grasses the year following Atrazine application or injury may occur. 9) Do not graze treated area or feed treated forage to livestock for 21 days following application.

SORGHUM AND SORGHUM-SUDAN HYBRIDS (GRAIN AND FORAGE TYPES)

Preplant or pre-emergence (Eastern and Central Nebraska and Northeast Kansas only)

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

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

Pre-emergence: Apply during or shortly after planting prior to weed emergence at the rate indicated in the table below.

Post-emergence broadleaf weed control with Atrazine plus emulsifiable oil in water (New Mexico, Oklahoma & Texas only):

Apply when sorghum is about 6-10 inches high and no higher than 12 inches. Treat broadleaf weeds before they reach 6 inches.

Ground Application: Broadcast 2 1/2 pints of Atrazine and 1/2-1 gal. of emulsifiable oil in 20-40 gals. of water per acre.

Aerial Application: Broadcast 2 1/2 pints of Atrazine and 1/2 gal. of emulsifiable oil in no less than 5 gallons of water per acre.

Sandy loams and heavier soils in Okla., New Mexico, Texas, West Kan., Colo., and desert regions of Ariz. and Calif. only

At least 6 ins. high	2 1/2 pts. plus 3/4-1 1/2 pts. surfactant	1 1/4 pts. plus 3/4-3/4 pt. surfactant	1 pt. plus 1/4 pt. surfactant
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*Based on 40-inch row spacing.
**Up to 12 inches.

Precautions: 1) Heavy rains immediately following application tend to result in excessive concentrations of herbicide in seed furrow, resulting in possible crop injury. Applications to furrow-planted sorghum should not be made until furrows are leveled (plowed-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 diskplow) and thoroughly till the soil in fall or spring to minimize possible injury to rotational spring-seeded crops, regardless of the 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 2 1/2 pts. per acre fall wheat may be planted 15 months after application.

NOTICE OF WARRANTY

Aceto Agricultural Chemicals Corporation warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purposes stated on such label only when used in accordance with the directions inherently associated with the use of the 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 Aceto Agricultural Chemicals Corporation. In no case shall Aceto Agricultural Chemicals Corporation be liable for consequential, special or indirect damages resulting from the use or handling of this product. All such risks shall be assumed by the buyer. Aceto Agricultural Chemicals Corporation makes no warranties of merchantability or fitness for a particular purpose nor any other express or implied warranty except as stated above.
MADE IN U.S.A.

Preplant and Pre-emergence Application (in Eastern and Central Nebraska and Northeastern Kansas only)

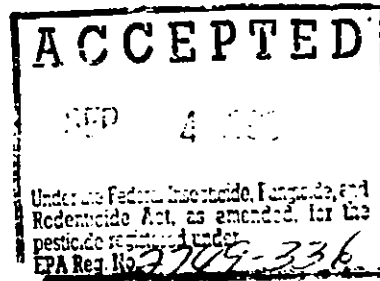
Soil Texture	Rate per acre of ATRAZINE 4L		
	Broadcast in 10-40 gals. of water/A	20-in. band* in 5-20 gals. of water/A	13-in. band* in 4-14 gals. of water/A
Sand to sandy loam, eroded slopes and soils low in organic matter	DO NOT USE		
Other soils (shallow incorporation may improve control)	4-4 3/4 pints	2-2 1/2 pints	1 1/4-1 1/2 pints

*Based on 40-inch row spacing. When making band applications, reduce the broadcast rate per acre in proportion to the area treated.

Post-emergence: For the control of broadleaves and grasses, apply post-emergence applications of ATRAZINE 4L in no less than ten gallons of water per acre at the rate indicated in the table below. Weeds should not exceed 1 1/2 inches in height at application.

Post-emergence Application** (weeds should not be more than 1 1/2 inches high)

Weeds to be controlled and soil texture	Stage or hgt. of sorghum at treatment	Rate per acre of ATRAZINE 4L		
		Broadcast in 10-40 gals. of water/A	20-in. band* in 5-20 gals. of water/A	13-in. band* in 4-14 gals. of water/A
Broadleaf and grass weeds				
Sandy or loamy sand		DO NOT USE		
Sandy loam		See broadleaf weeds below		
Silt loam to sandy clay loam	Completely emerged	4-4 3/4 pts.	2-2 1/2 pts.	1 1/4-1 1/2 pts.
Olton and Pullman clay soils	At least 6 inches high	4 3/4 pts.	2-2 1/2 pts.	1 1/4-1 1/2 pts.
Silty clay loams and heavier soils	Completely emerged	6 pts.	3 pts.	2 pts.
Broadleaf weeds				



Manufactured For:
ACETO AGRICULTURAL CHEMICALS CORPORATION
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8 1/2 x 11
500 C