



464-482
ACCEPTED
August 16, 1973
FEDERAL

ATRAZINE

For Season-long Weed Control in Corn and Sorghum

Contains 4 pounds active ingredient per gallon.

ACTIVE INGREDIENTS:	43%
Atrazine (2-chloro-4-ethylamino-6-isopropylamino-s-triazine)	40.8%
Related compounds.....	2.2%
INERT INGREDIENTS:	57%

E.P.A. Registration No. 464-482-AA

CAUTION

**KEEP OUT OF REACH OF CHILDREN
HARMFUL OR FATAL IF SWALLOWED • DO NOT GET
IN EYES • AVOID CONTACT WITH SKIN, INHALA-
TION OF VAPORS OR SPRAY MIST AND CONTAMI-
NATION OF FOOD AND FEED**

**Do not contaminate domestic or irrigation water supplies
or lakes, streams, or ponds.**

Do not reuse container. Destroy when empty.

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

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 of spray mist or 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 the 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. 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.
6. If an oil film starts to build up in the tank, drain the tank and clean out with a strong detergent solution or solvent.
7. Clean the sprayer thoroughly immediately after use by flushing the system

Related compounds..... 2.3%
INERT INGREDIENTS: 57%
E.P.A. Registration No. 464-482-AA

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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.

Note: Dow does not recommend Atrazine 4L in combination with other herbicides or oils except as specifically described on the label.

Atrazine 4L is non-flammable.

APPLICATION PROCEDURES

Atrazine 4L, a liquified 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. Screens in nozzles and in suction and in-line

excessive spray drift may occur. Avoid application directly to animals or humans. Flagmen or loaders should avoid inhalation of spray mist or 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 the 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. 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.
6. If an oil film starts to build up in the tank, drain the tank and clean out with a strong detergent solution or solvent.
7. Clean the sprayer thoroughly immediately after use by flushing the system with water containing a detergent.

Note:

1. Do not use oil 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 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 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 and emulsifiable oil in water per season.
6. All return lines to the tank must discharge below liquid level.

CORN

One application will control most annual broadleaf and grass weeds such as barnyardgrass, witchgrass (*Panicum capillare*), yellow foxtail, green foxtail,

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SPECIMEN LABEL

ATRAZINE 4L HERBICIDE

Season-long Weed Control in Corn and Sorghum

ainers should be no finer than 50-mesh. Use a pump with capacity sufficient maintain 35-40 psi operating pressure.

Application: Use only where broadcast applications are specified. Apply 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. Operators or loaders should avoid inhalation of spray mist or 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 the directions, procedures, and precautions given below.

When 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. 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.
- 6. If an oil film starts to build up in the tank, drain the tank and clean out with a strong detergent solution or solvent.

wild oats, large (hairy) crabgrass, giant foxtail, velvetleaf, morningglory, lambs-quarters, 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 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 gal of water/A	20-inch band† In 5-20 gal of water/A	13-inch band† In 4-14 gal 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 or- ganic matter	4 3/4 pints	2 1/2 pints	1 1/2 pints
Heavy soils:			

cessive spray drift may occur. Avoid application directly to animals or humans. Bagmen or loaders should avoid inhalation of spray mist or 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 the directions, procedures, and precautions given below.

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Equipment Procedures for Atrazine and Emulsifiable Oil:

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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. 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.
6. If an oil film starts to build up in the tank, drain the tank and clean out with a strong detergent solution or solvent.
7. Clean the sprayer thoroughly immediately after use by flushing the system with water containing a detergent.

Note:

1. Do not use oil 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 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 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 and emulsifiable oil in water per season.
6. All return lines to the tank must discharge below liquid level.

CORN

One application will control most annual broadleaf and grass weeds such as barnyardgrass, witchgrass (*Panicum capillare*), yellow foxtail, green foxtail,

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 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 1½ inches in height at the rate indicated below.

Soil texture	Rate per acre of Atrazine 4L		
	Broadcast In 10-40 gal of water/A	20-inch band† In 5-20 gal of water/A	13-inch band† In 4-14 gal of water/A
Light soils: Sands, loamy sands, and sandy loams	4 pints	2 pints	1¼ pints
Medium soils: Silt and clay loams that are low in or- ganic matter	4¾ pints	2½ pints	1½ 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-emer- gence only)	6 pints	3 pints	2 pints

† Based on 40-inch 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*) Control: Broadcast 8 pints per acre preplant, pre-emergence, or post-emergence before nutgrass is more than 1½ 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 Control on Land Going Into Corn Production: Split Application: Broadcast 4 pints per acre in the fall or spring and plow 1-3 weeks later. Broadcast a second application at the rate of 4 pints per acre in the spring before, during, or after planting, but before weeds are 1½ inches high.