

CAUTION

- Keep out of reach of children
- Harmful or fatal if swallowed.
- Do not get in eyes.
- Avoid contact with skin, inhalation of vapors or spray mist and contamination of food and feed.
- Do not contaminate domestic or irrigation water supplies or lakes, streams, or ponds.
- Do not reuse container. Destroy when empty.

IMPORTANT: Read the entire Directions For Use and the Conditions of Sale and Warranty before using this product.

DIRECTIONS FOR USE

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 Helena Chemical Company or the Seller. All such risks shall be assumed by the Buyer.

WARRANTY AND LIMITATION OF DAMAGES. Helena Chemical Company warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use and Conditions of Sale, subject to the inherent risks referred to therein. Helena Chemical Company makes no other express or implied warranty of **FITNESS** or of **MERCHANTABILITY**, and no agent of Helena Chemical Company is authorized to do so except in writing with a specific reference to this warranty. Any damages arising from a breach of this warranty shall be limited to direct damages, and shall not include consequential commercial damages such as loss of profits or of value, etc.

GENERAL INFORMATION

Atrazine 4 L 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 4 L 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 4 L** near adjacent desirable trees, shrubs, or plants, or injury may occur.

NOTE: Helena Chemical Company does not recommend **Atrazine 4 L** in combination with other herbicides or oils except as specifically described on the label.

Atrazine 4 L is non-flammable.

APPLICATION PROCEDURES:

Atrazine 4 L, a liquid formulation, should be mixed with water or liquid fertilizer and applied as a spray. Pour Atrazine 4 L 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 4 L** 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 inline 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 4 L** 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. Flags or lead-ers 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.

POSTEMERGENCE WEED CONTROL WITH ATRAZINE 4 L PLUS EMULSIFIABLE OIL IN WATER. The addition of oil to **Atrazine 4 L** in water sprays may speed the activity of **Atrazine 4 L** 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 4 L**, use a crop all designed for use with **Atrazine 4 L** containing at least 1% suitable emulsifier. Oils contaminated with water or other materials can cause compatibility problems and/or injury.

EQUIPMENT PROCEDURES FOR ATRAZINE 4 L 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 spray clogging may result. 2. Fill the spray tank with water, allowing for the addition of the **Atrazine 4 L**. 3. With the agitation system in operation, add the **Atrazine 4 L**. 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 4 L** 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 4 L** 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, wild oats, large (hairy) crabgrass, giant foxtail, velvet-leaf, morningglory, lambsquarters, pigweed, ragweed, nightshade, purslane, and mustard.

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

For preplant and preemergence applications, nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier of **Atrazine 4 L**. Do not apply after corn has emerged as there is danger of liquid fertilizer 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, a void deep incorporation of **Atrazine 4 L**. Best results have been obtained when **Atrazine 4 L** is applied within two weeks prior to planting.

Preemergence:

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

Postemergence:

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

Soil Texture	Rate per acre of Atrazine 4 L		
	Broadcast In 10-40 Gals. of water A	20-inch band* in 5-20 gals of water A	13-inch 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 1/2 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, muck, and high organic clays (Apply post- emergence 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 pts. per acre preplant, preemergence, or postemergence 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 Control on Land Going Into Corn Production:

Split Application: Broadcast 4 pts. per acre in the fall or spring and plow 1-3 weeks later. Broadcast a second application at the rate of 4 pts. per acre in the spring before, during or after planting, but before weeds are 1 1/2 inches high.

Single Application: Broadcast 6-8 pts. per acre in the fall or spring. Plow 1-3 weeks after application.

HELENA BRAND

ATRAZINE 4 L

HERBICIDE

For season-long weed control in corn and sorghum

Atrazine 4 L contains 4 lbs. active ingredients per gallon.

**CAUTION: KEEP OUT OF REACH OF CHILDREN.
SEE ADDITIONAL PRECAUTIONS ON
SIDE PANEL**

ACTIVE INGREDIENTS:

Atrazine (2-chloro-4-ethylamino-6-isopropylamino-s-triazine)..... 40.8%
Related compounds..... 2.2%

INERT INGREDIENTS:..... 57.0%

TOTAL..... 100.0%

MANUFACTURED BY
HELENA CHEMICAL COMPANY
MEMPHIS, TENNESSEE

Postemergence
Ground Appl
water per ac
Aerial Appli
gals. of wat
Precautions:
treated with
injury may e
thoroughly fi
regardless of
other than a
broadcast re
untreated co
Intermountai
required, us
untreated co
eastern part
followed wit
rate in a bot
dry beans).
Atrazine 4 L
to livestock
Sorghum an
Preplant or
For preplant
replace all
emerged as
Preplant: Br
may be ma
application.
Atrazine 4 L
Preemergence
indicated in
Preplant an
Kansas Only
Broadleaf ar

Soil Texture
Sand to sand
eroded slope
low in organ
Other soils
incorporation
prove contr
Based on 1
acre in pro

Postemergence
Mexico, OK
Apply when
reach 6 incl
Ground Appl
gals. of wat
Aerial Appl
5 gallons of
Postemergence
Atrazine 4 L
Weeds show