

4115
5905-469
3-2-90
100-3

Judy Oldham
Registration Specialist
Helena Chemical Company
5100 Poplar, Clark Tower, Suite 38137
Memphis, TN 38137

Dear Ms. Oldham:

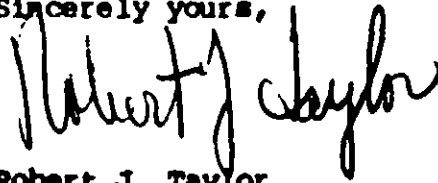
Subject: Atrazine 80W
EPA Reg. No. 5905-469
Re: Atrazine Voluntary Exposure Reductions Measures
Your Amendment Submission Dated April 20, 1990

The labeling referred to above, submitted in connection with the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable with the following comments:

- On page 5 under section entitled NORTHERN NUTGRASS OR YELLOW NUTSEDGE CONTROL, revise application rate to comply with the 3 lb. ai per acre per year limit, or delete this section from label.
- The primary registrant of Atrazine, CIBA-GIEGY, has announced it will no longer submit data in support of the following uses of Atrazine: Rangeland; Pineapples; Prose Millet. If applicable, please delete those uses from your label or submit to EPA, within 30 days, your intentions to support such uses.
- Add the following statement to your label where appropriate:
"Postemergence application to corn and sorghum must be made before crop reaches 12 inches in height."
- Where applicable, replace the term "Boot Stage" with "12 inches" or "Boot Stage but no higher than 12 inches".

Please submit five (5) copies of your final printed labeling incorporating this amendment and above mentioned comments before you release the product for shipment. All technical and end-use products released for shipment must have amended labels after September 1, 1990.

Sincerely yours,



Robert J. Taylor
Product Manager (25)

Fungicide-Herbicide Branch
Registration Division (R7505C)

				CONCURRENCE			
SYMBOL	117286C						
SURNAME	mjllll						
DATE	5/1/90						

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 CONCERNS. USERS MUST READ AND FOLLOW ALL PRECAUTIONARY STATEMENTS AND INSTRUCTIONS FOR USE IN ORDER TO MINIMIZE POTENTIAL FOR ATRAZINE TO REACH GROUND WATER.

ATRAZINE 80W
HERBICIDE

For Season-long Weed Control in Corn and Sorghum. For Weed Control in Certain Other Crops; In Noncrop Areas, and Industrial Sites.

ATRAZINE 80W is a wettable powder.

ACTIVE INGREDIENTS:

Atrazine [(2-chloro-4-ethylamino)-6-(isopropylamino)-s-triazine].....	76.0%
Related Compounds	4.0%
INERT INGREDIENTS	20.0%
TOTAL	100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

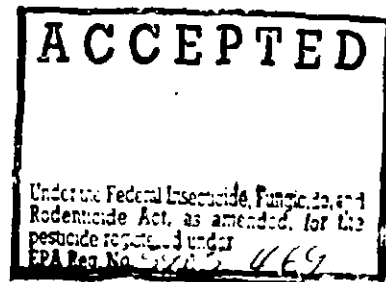
See Inside Panel for Additional Precautionary Statements.

PRECAUCION AL USUARIO: Si usted no lee ingles no use este producto hasta que le etiqueta haya sido explicado ampliamente.

EPA REG. NO. 5905-469

NET CONTENTS:

EPA EST. NO.: First two letters of batch code indicate producing establishment -
5905-FL-1=TF . 5905-GA-1=CG . 5905-CA-1=KC
5905-IA-1=DI . 5905-AR-1=WA



Manufactured by
HELENA CHEMICAL COMPANY
Memphis, TN. 38137

1-3-77

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes eye and skin irritation. Do not get in eyes, on skin or on clothing. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating or smoking. Avoid inhalation of dust or spray mist. Wash contaminated clothing before reuse. 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.

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/loading operations are required to use chemical resistant rubber or neoprene gloves and a face shield or goggles.

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Flush with plenty of water. Call a physician if irritation persists.

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

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 when disposing of equipment washwaters.

Atrazine can travel (seep or leach) through soil and can enter groundwater which may be used as drinking water. Atrazine has been found in groundwater. Users are advised not to apply atrazine to sand and loamy sand soils where the table (groundwater) is close to the surface and where these soils are very permeable, i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

DIRECTIONS FOR USE

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

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

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.

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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. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: 'CAUTION. Area treated with atrazine on (date of application). Do not enter without appropriate protective clothing until sprays have dried. In case of accidental exposure, flush eyes or skin with plenty of water. If irritation persists, consult a physician. Contaminated clothing should be washed before reuse.'

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or 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.

CHEMIGATION PROHIBITION

Do not apply this product through any type of irrigation system.

GENERAL INFORMATION

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.

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HELENA BRAND ATRAZINE HERBICIDE will control most annual broadleaf and grass weeds in corn, sorghum, sugarcane, and certain other crops. It is also effective for control of most annual and many perennial broadleaf and grass weeds in noncrop areas and industrial sites. HELENA BRAND ATRAZINE may be applied before or after weeds emerge.

Since HELENA BRAND ATRAZINE acts mainly through root absorption, its effectiveness depends on rainfall or irrigation to move it into root zone. Should weeds develop, a shallow cultivation or rotary hoeing will generally result in better weed control.

HELENA BRAND ATRAZINE is a wettable powder that should be mixed with water and applied as a spray. Make a slurry by adding HELENA BRAND ATRAZINE 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.

Care should be taken to avoid using HELENA BRAND ATRAZINE where adjacent desirable trees, shrubs, or plants might be injured.

Store HELENA BRAND ATRAZINE in a dry place.

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.

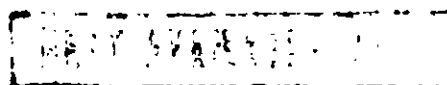
GROUND APPLICATION: For uniform distribution in broadcast applications, TeeJet 8003 or 8004 fan type or similar nozzles with openings of equal or greater size should be used. For band applications, use TeeJet 8003-E or 8004-E or similar type nozzles. Screens in nozzles as well as those in suction and in-line strainers should be no finer than 50 mesh size. A suitable pump with capacity to deliver 10-12 gpm should be used and operating pressure should be 35-40 psi. Use 20-40 gals. 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 HELENA BRAND ATRAZINE to be applied per acre.

Avoid application 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.

*For combining with HELENA BRAND ATRAZINE, use a crop oil designated for use with Atrazine 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. Observe all cautions and limitations on labeling of all products used in mixtures.

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 HELENA BRAND ATRAZINE in water, thoroughly wetting the Atrazine. 3) Fill the spray tank with water, allowing for the addition of the HELENA BRAND ATRAZINE. 4) With the agitation system in operation, add the Atrazine 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 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 in Atrazine 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 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 with Atrazine 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 HELENA BRAND ATRAZINE and emulsifiable oil in water per season.

NORTHERN NUTGRASS OR YELLOW NUTSEDGE (*Cyperus esculentus*) CONTROL: Broadcast 5 lbs. 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.

The maximum application rate of corn is 3 lbs. a.i. (3-3/4 lb. ATRAZINE 80W) per acre per calendar year. Application for quackgrass suppression in corn are restricted to a spring application only. No fall applications are permitted.

QUACKGRASS CONTROL ON LAND GOING INTO CORN PRODUCTION: Split application: Broadcast 1-3/4 lbs. per acre in the spring and plow 1-3 weeks later. Broadcast a second application at the rate of 1-3/4 lbs. per acre in the spring before, during or after planting but before weeds are 1-1/2 inches high. This split application will control both quackgrass and most annual broadleaf and grass weeds.

Single application: Broadcast 3-3/4 lbs. per acre in the spring. Plow 1-3 weeks after application.

PRECAUTIONS: 1) Do not apply more than 3.75 lbs. of ATRAZINE 80W to corn in any one year. 2) Land treated with ATRAZINE 80W 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 diskplow) 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 ATRAZINE 80W 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 80W is used

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at a broadcast rate higher than 3 3/4 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 Inter-mountain areas of the West where rainfall is sparse and erratic or where irrigation is required, use HELENA BRAND 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 HELENA BRAND ATRAZINE should not be followed with soybeans if the broadcast rate applied was more than 2 1/2 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 HELENA BRAND ATRAZINE application or injury may occur. 9) Do not graze treated area or feed treated forage to livestock for 21 days following application.

NOTICE TO USER

The Federal Food and Drug Administration has set tolerances for residues of atrazine on certain raw agricultural commodities as follows:

15.00 ppm in or on corn forage or fodder (including field corn, sweet corn, and popcorn) perennial ryegrass, sorghum fodder and forage.

0.25 ppm in or on fresh corn including sweet corn (kernels plus cobs with husks removed), corn grain (includes popcorn), sorghum grain, sugarcane, sugarcane fodder and forage.

0.02 ppm in eggs, milk, meat, fat and meat by-products of cattle, goats, hogs, horses, poultry and sheep.

Consult the Federal Food and Drug Administration for changes and additions.

The marketing of raw agricultural commodities having residues in excess of their permitted tolerances, or marketing those for which no tolerances have been set, and bearing residues, will violate Federal Law when shipped in interstate commerce and may violate State Law.

SUGARCANE

For control of most nonrhizomatous weeds, such as crabgrass, junglerice, wiregrass, foxtail, amaranths, Flora's paintbrush, fireweed and similar plants: Broadcast 2 1/2-5 lbs. per acre in 20-50 gals. 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 interline after emergence, as a directed spray.

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For control of emerged Pellitory Weeds (artillery weed) (Florida only): Apply 1/2 to 3/4 lb. per acre in at least 40 gals. of water per acre as a directed spray. Add 2 qts. of surfactant for each 50 gals. of spray and be sure weed foliage is thoroughly covered.

PRECAUTIONS: (1) Do not apply HELENA BRAND ATRAZINE after "close-in".
2) Do not apply more than 12 1/2 lbs. of HELENA BRAND ATRAZINE to any one crop of cane.

FORREST AND CHRISTMAS TREE PLANTATIONS

Douglas Fir, Grand Fir, Noble Fir, White Fir., Lodgepole Pine, Ponderosa Pine and Scotch Pine (Pacific Northwest-west of Cascades only).

Annual broadleaf and grass weed control: Broadcast 2 1/2-5 lbs. in 20-40 gals. of water per acre to assure thorough coverage. For band applications, reduce the rate of HELENA BRAND ATRAZINE 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 1/4-2 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 20-40 gals. 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: (1) Do not graze treated areas. (2) Do not apply to seedbeds. (3) Do not make more than one application per year.

NONSELECTIVE WEED CONTROL ON NONCROP LAND

Application rates to non crop land for industrial weed control cannot exceed a maximum of 10 lbs. active ingredient per acre per calendar year.

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For use on fence rows and around utility poles. Apply HELENA BRAND ATRAZINE at rates recommended below, before or soon after weeds begin growth. Post-emergence 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. Do not apply to water drainage areas where runoff or flooding will contaminate ponds, lakes or streams. Use sufficient water to assure thorough coverage. Use at least 1 gal. of water for each lb. of HELENA BRAND ATRAZINE, more if practical. Mechanical bypass or jet agitation is necessary to keep HELENA BRAND ATRAZINE in suspension during application.

Most annual broadleaf and grass weeds: Broadcast 6-12 1/2 lbs. per acre.

Hard-to-kill annual and many perennial broadleaf and grass weeds: Broadcast 12 1/2 lbs. per acre.

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

SORGHUM AND SORGHUM-SUDAN HYBRIDS (Grain and Forage Types): HELENA BRAND ATRAZINE may be used to control many 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 time of application. When making band applications, reduce the broadcast rate per acre in proportion to the area treated.

PREPLANT ** AND PRE-EMERGENCE APPLICATION (in eastern and central Nebraska and northeast Kansas only).

BROADLEAF AND
GRASS WEED CONTROL

RATE PER ACRE OF HELENA BRAND ATRAZINE

Soil Texture	Broadcast in 20-40 gals. of water per acre	20-inch Band* In 10-20 gals. of water per acre	13-inch Band* In 7-14 gals. of water per acre
Sand to sandy loam, eroded slopes and soils low in organic matter			DO NOT USE
Other soils (shallow incorporation may improve control)	2 1/2-3 lbs.	1 1/4-1 1/2 lbs.	13 oz.-1 lb.

*Based on 40-inch row spacing. **See pre-plant recommendations for corn. Non-pressure nitrogen solutions or complete liquid fertilizers may be substituted for all or part of the water as a carrier for HELENA BRAND ATRAZINE. Do not apply nitrogen solutions or fertilizers after crop emergence as damage may result.

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POST-EMERGENCE APPLICATION

RATE PER ACRE OF ATRAZINE

Weeds to be controlled and soil texture	Stage or height of sorghum at treatment	Broadcast In 20-40 gals. of water A	20" band** In 10-20 gals. of Water A	13" Band** In 7-14 gals. of Water A
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BROADLEAF AND GRASS WEEDS

Sand or loamy sand

DO NOT USE

Sandy loam

SEE BROADLEAF WEEDS BELOW

Silt loam to sandy clay loam	Completely emerged	2 1/2-3 lbs.	1 1/4-1 1/2 lbs.	13 oz.-1 lb.
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Olton and Pullman clay soils	At least 6 inches high	2 1/2-3 lbs.	1 1/4-1 1/2	13 oz.-1 lb.
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BROADLEAF WEEDS

Sandy loams and heavier soils in Okla., N.M., Tex., West Kans., Colo., and desert regions of Ariz. and Calif. only

At least 6 inches high	1 1/2 lbs. plus 3/4-1 1/2 plus surfactant	3/4 lb. plus 3/8-3/4 pt. surfactant	1/2 lb. plus 1/4-1/2 pt. surfactant
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CORN

One application will control most annual broadleaf and grass weeds such as barnyardgrass, witchgrass: (Panicum capillare, yellow foxtail, wild oats, large (hairy) crabgrass, giant foxtail, velvetleaf, morningglory, lambsquarter, pigweed, ragweed, nightshade, purslane, and mustard. HELENA BRAND ATRAZINE may be applied either before planting, at planting, or after planting, using 2-1/2 - 3-3/4 lbs. per acre as 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 for HELENA BRAND ATRAZINE. 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 in the table below. Application may be made before, during, or after final seedbed preparation. If soil is tilled or worked after application, avoid seed incorporation of HELENA BRAND ATRAZINE. Best results have been obtained when HELENA BRAND ATRAZINE is applied within two weeks prior to planting.

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

POST-EMERGENCE: Apply before weeds exceed 1 1/2 inches in height, at the rate indicated in the table below.

NOTE: For band applications, reduce the broadcast rate of HELENA BRAND ATRAZINE in proportion to the area treated.

	RATE PER ACRE OF HELENA BRAND ATRAZINE		
	Broadcast In 20-40 gals. of water per acre	20-inch Band * In 10-20 gals. of water per acre	13-inch Band * In 7-14 gals. of water per acre
Soil Texture			
Light soils:			
Sands, loamy sands and sandy loams.	2 1/2 lbs.	1 1/4 lbs.	13 oz.
Medium Soils:			
Silt and clay loams that are low in organic matter			
	3 lbs.	1 1/2 lbs.	1 lb.
Heavy Soils:			
Silt and clay loams with medium to high organic matter and clays			
	3 3/4 lb.	1 lb. 14 oz.	1 1/4 lbs.
Peats, mucks, and high organic clays (Apply post-emergence only)			
	3 3/4 lbs.	1 lb. 14 oz.	1 1/4 lbs.

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

LAYBY TREATMENT: Broadcast 1 1/4 - 2 1/2 lbs. per acre in 20-40 gals. of water or sufficient nitrogen solution before weeds are 1 1/2 inches high. Apply when corn is 12 inches high. When nitrogen solutions are used direct the spray to the lower 3-4 inches of cornstalks to avoid corn foliage injury. Agitation in the spray tank during application is essential.

POST-EMERGENCE WEED CONTROL WITH HELENA BRAND ATRAZINE AND EMULSIFIABLE OIL IN WATER: The addition of oil to HELENA BRAND ATRAZINE in water sprays may speed the activity of HELENA BRAND ATRAZINE and provide quicker kill of weeds.

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However, under certain conditions the use of oil may seriously damage corn. To minimize the possibility of damage to corn, follow the direction, procedures, and precautions given below.

GROUND APPLICATION: Broadcast 2 1/2 lbs. of HELENA BRAND 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 2 1/2 lbs. of HELENA BRAND 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 in height.

*Up to "close-in"

**Based on 40-inch row spacing.

POST-EMERGENCE BROADLEAF WEED CONTROL WITH HELENA BRAND ATRAZINE AND EMULSIFIABLE OIL IN WATER (New Mexico, Oklahoma, and Texas only): The addition of oil to post-emergence Atrazine in water sprays may speed the activity of Atrazine 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.

GROUND APPLICATION: Broadcast 1 1/2 lbs. of HELENA BRAND ATRAZINE and 1 gal. of emulsifiable oil* in 20-40 gals. of water per acre when sorghum is 8 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 HELENA BRAND ATRAZINE and 1/2 gal. of emulsifiable oil* in no less than 5 gals. of water per acre when sorghum is 6 to 10 inches in height and before it reaches boot stage. Treat before broadleaf weeds reach 6 inches in height.

*For combining with Atrazine, use a crop oil designed for use with Atrazine 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 sorghum damage or spray clogging may result. 2) In a separate container make a thin slurry of HELENA BRAND ATRAZINE in water, thoroughly wetting the Atrazine. 3) Fill the spray tank with water, allowing for the addition of the Atrazine. 4) With the agitation system in operation, add the HELENA BRAND ATRAZINE 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 in HELENA BRAND ATRAZINE 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

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injury may occur. 2) Do not use oil in HELENA BRAND ATRAZINE 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 HELENA BRAND ATRAZINE and emulsifiable oil . water per season.

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 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 disk-plow) 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 1 1/2 lbs. per acre, fall wheat may be planted 15 months after application.

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CONDITIONS OF SALE - LIMITED WARRANTY
AND LIMITATIONS OF LIABILITY AND REMEDIES

The directions on this label are believed to be reliable and should be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions, or good application practices, all of which are beyond the control of Helena (the "Company") or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. The Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product is a claim for damage and in no event shall damages or any other recovery of any kind against the Company exceed the price of the product which causes the alleged loss, damage, injury, or other claim. The Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income.

The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.