

CAUTION

Keep out of reach of children. Harmful if swallowed. Avoid contact with eyes. Control with care to minimize dust 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.

INSTRUCTIONS TO USER

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

1.25 ppm for or on corn forage or fodder, including field corn, sweet corn, and popcorn, perennial ryegrass, sorghum, fodder and storage.

0.25 ppm for or on field corn including sweet corn, kernels plus cobs with husks removed, corn grain, sorghum, popcorn, sorghum grain, sorghum, sorghum, fodder and storage.

0.25 ppm for or on milk, meat, fat and meat by products of cattle, goats, hogs, horses, poultry and swine.

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

The residues of raw agricultural commodities having residues in excess of their permitted tolerances or exceeding 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.

SORGHUM

For control of most nonhazardous weeds such as crabgrass, junglerice, wiregrass, foxtail, or amaranth, finger panicgrass, fireweed and similar plants. Broadcast 2 1/2 to 5 lbs. per acre in 20-40 gals. of water for adequate coverage of the soil surface at time of planting or replanting, but before the cane emerges. One additional application may be made over the same area if necessary and two additional applications may be made interline after emergence as a directed spray.

For control of Emerged Perennial Weeds, tall fescue, 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 every 50 gals. of spray and be sure weed foliage is thoroughly covered.

PRECAUTIONS: 1. Do not apply DREXEL ATRAZINE after close in. 2. Do not apply more than 2 1/2 lbs. of DREXEL ATRAZINE to any one crop of cane.

FOREST AND CHRISTMAS TREE PLANTATIONS

Control 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 to 5 lbs. in 20-40 gals. of water per acre to assure thorough coverage. For band applications, reduce the rate of DREXEL ATRAZINE and volume of water in proportion to the area treated. For example, when treating a 4-foot band over trees planted in rows 3 feet apart, apply 1 1/4 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.

Control grass 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 spray treated areas. 2. Do not apply to seedbeds. 3. Do not make more than one application per year.

PERENNIAL RYEGRASS GROWN FOR SEED, Pacific Northwest Only

For control of annual broadleaf and grass weeds such as annual ryegrass, rattle fescue, and similar species. Broadcast 1 1/2 to 1 1/2 lbs. in 15 gals. or more water per acre, after first fall rains.

PRECAUTIONS: 1. Apply only to perennial ryegrass stands from which a seed crop has been harvested. 2. Do not apply DREXEL ATRAZINE to ryegrass more than 2 years in succession. 3. Do not spray treated land within 10 days of application. 4. Do not plant treated land to other crops for at least 16 months.

NONSELECTIVE WEED CONTROL ON NONCROP LAND

For control of weeds in rows and around utility poles. Apply DREXEL ATRAZINE at rates recommended below before or soon after weeds begin to grow. Post-emergence applications should be made when weeds are young and actively growing. Use the higher rates on heavy clay and muck soils that contaminate domestic or irrigation water supplies or lakes, streams, or ponds. Use sufficient water to assure thorough coverage. Use at least 1 gal. of water for each lb. of DREXEL ATRAZINE in suspension practical. Mechanical bypass or jet agitation is necessary to keep DREXEL ATRAZINE in suspension during application.

For control of annual broadleaf and grass weeds. Broadcast 6-12 1/2 lbs. per acre.

For control of annual and many perennial broadleaf and grass weeds. Broadcast 12 1/2 to 25 lbs. per acre.

For control of annual and perennial weeds such as bull thistle and sowthistle. Broadcast 25-50 lbs. per acre.

For longer residual control in regions of high rainfall and a long growing season. Broadcast 25-40 lbs. per acre.

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

PRECAUTIONS FOR USE AND CONDITIONS FOR SALE AND WARRANTY

PRECAUTIONS: 1. Do not apply more than 5 lbs. of DREXEL ATRAZINE to any one crop in any one year. 2. Land treated with DREXEL 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 diskplow and thoroughly mix the soil in the fall or spring to minimize possible injury to rotational spring-sown crops, regardless of the rate used. 4. If DREXEL 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 DREXEL ATRAZINE is used 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 Higher Plains and Intermountain areas of the West where rainfall is sparse and erratic or where irrigation is required, use DREXEL 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 DREXEL 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, soybeans, vegetables including dry beans, pumpkins, small grains, or small-seeded legumes and grasses the year following DREXEL ATRAZINE application or injury may occur. 9. Do not graze treated area or feed treated forage to livestock for 21 days following application.

CONDITIONS OF SALE AND WARRANTY: The Drexel Chemical Company warrants that this material conforms to the chemical description on the label and is reasonably fit for the purposes referred to on the label and for use and control as directed on the label and to the inherent risks referred to thereon. Drexel Chemical Company makes no other express or implied warranty, including any other warranty or condition of sale, of MERCHANTABILITY and no amount of Drexel Chemical Company's damages or liability shall be limited to direct damages and shall not include consequential, commercial damages such as loss of profits or value, etc.

GENERAL INFORMATION

DREXEL ATRAZINE HERBICIDE will control most annual broadleaf and grass weeds in corn, Sorghum, Sorghum 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. DREXEL ATRAZINE may be applied before or after weeds emerge.

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

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

DREXEL ATRAZINE is noncorrosive to equipment and metal surfaces, nonflammable and has low electrical conductivity.

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

Store DREXEL 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 7003E or 8004E or similar type nozzles. Screens or mesh screens as well as those in suction and inline 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 DREXEL 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. 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.

For combining with DREXEL 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 corn damage or sprayer clogging may result. 2. In a separate container, make a thin slurry of DREXEL ATRAZINE in water, thoroughly wetting the Atrazine. 3. Fill the spray tank with water, allowing for the addition of the DREXEL 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 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 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 injured 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 DREXEL ATRAZINE and emulsifiable oil in water per season.

NORTHERN NUTGRASS OR YELLOW NUTEDGE, *Cyperus rotundus*, CONTROL: Broadcast 5 lbs. per acre pre-plant, 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 CONTROL ON LAND GOING INTO CORN PRODUCTION: Split application. Broadcast 2 1/2 lbs. per acre in the fall or spring and row 1-3 weeks later. Broadcast a second application at the rate of 2 1/2 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. to 5 lbs. per acre in the fall or spring. Plow 1-3 weeks after application.

PRECAUTIONS: 1. Do not apply more than 5 lbs. of DREXEL ATRAZINE to any one crop in any one year. 2. Land treated with DREXEL 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 diskplow and thoroughly mix the soil in the fall or spring to minimize possible injury to rotational spring-sown crops, regardless of the rate used. 4. If DREXEL 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 DREXEL ATRAZINE is used 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 Higher Plains and Intermountain areas of the West where rainfall is sparse and erratic or where irrigation is required, use DREXEL 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 DREXEL 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, soybeans, vegetables including dry beans, pumpkins, small grains, or small-seeded legumes and grasses the year following DREXEL ATRAZINE application or injury may occur. 9. Do not graze treated area or feed treated forage to livestock for 21 days following application.

DREXEL

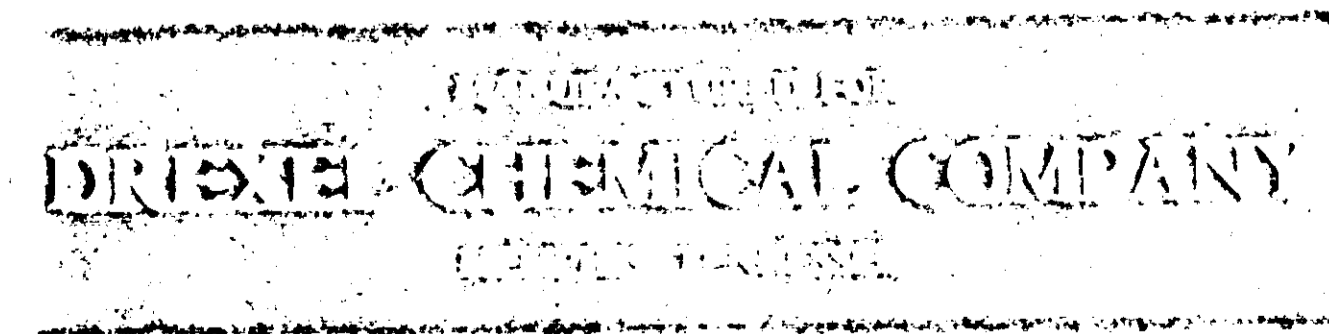
ATRAZINE 80 HERBICIDE

FOR SEASON-LONG WEED CONTROL
IN CORN AND SORGHUM
FOR WEED CONTROL IN CERTAIN OTHER CROPS
IN NONCROP AREAS AND INDUSTRIAL SITES.

DREXEL ATRAZINE IS A WETTABLE POWDER

CAUTION
KEEP OUT OF REACH OF CHILDREN
SEE ADDITIONAL CAUTION STATEMENTS ON SIDE OF BAG.

ACTIVE INGREDIENT	PERCENTAGE
Atrazine, 2-chloro-4-ethylamino-6-isopropyl-1,3,5-triazine	79
Inert Compounds	21
TOTAL	100



DREXEL

ATRAZINE 80 HERBICIDE

FOR SEASON-LONG WEED CONTROL
IN CORN AND SORGHUM.
FOR WEED CONTROL IN CERTAIN OTHER CROPS
IN NON-CROP AREAS, AND INDUSTRIAL SITES.

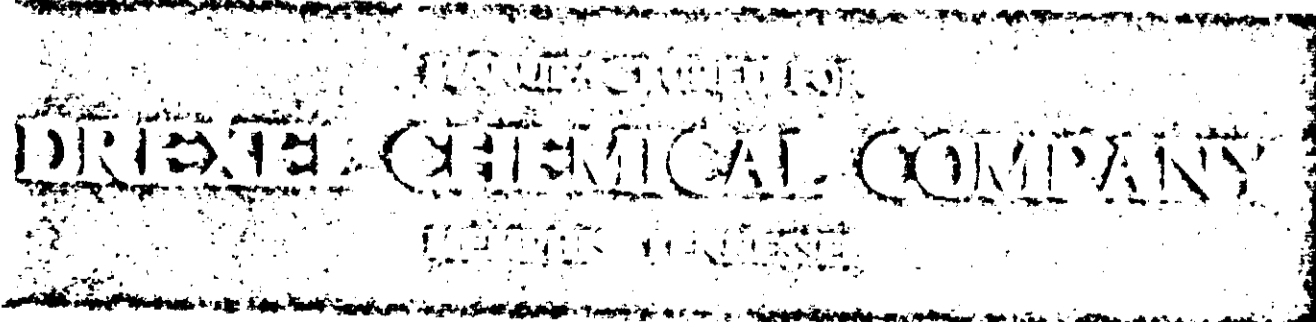
DREXEL ATRAZINE IS A WETTABLE POWDER

CAUTION

KEEP OUT OF REACH OF CHILDREN

SEE ADDITIONAL CAUTION STATEMENTS ON SIDE OF BAG.

ACTIVE INGREDIENTS		
Atrazine, 2-chloro-4-ethylamino-6-isopropylamino-s-triazine	70	oz.
Inert Compounds	4	
TOTAL	74	lb.



SORGHUM AND SORGHUM-SUDAN HYBRIDS: Grain and Forage Types: DREXEL 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. For 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.

BROADLEAF AND GRASS WEED CONTROL

Soil Texture	RATE PER ACRE OF DREXEL ATRAZINE		
	Broadcast in 20-40 gals. of water per acre	20-inch Band* in 10-20 gals. of water per acre	18-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 moisture non-max. improve control	2-1/2 lbs.	1-1/4 to 1-1/2 lbs.	13 oz. to 1 lb.

*Based on 40-inch row spacing. If you preplant require additional for corn. Non-pressure nitrogen fertilizer should be applied to the soil in the row at the same time as the water as a carrier for DREXEL ATRAZINE. Do not apply nitrogen solution or fertilizers after crop emergence is damage may result.

POST-EMERGENCE APPLICATION

Weeds to be controlled and soil texture	Spray or height of crop at treatment	RATE PER ACRE OF DREXEL ATRAZINE		
		20-inch Band* in 10-20 gals. of Water A	18-inch Band* in 7-14 gals. of Water A	13 oz. to 1 lb.
Sandy loam	SEE BROADLEAF WEEDS BELOW	DO NOT USE		
		SEE BROADLEAF WEEDS BELOW		

BROADLEAF AND GRASS WEEDS

Soil or loamy sand	DO NOT USE
Sandy loam	SEE BROADLEAF WEEDS BELOW
Silt loam to sandy clay loam	2-1/2 lbs.
Clay loam and Pullman clay soils	At least 6 inches high 2-1/2 lbs.

BROADLEAF WEEDS
Sandy loam and loamy soils in Calif., N. M., Tex., West Kans., Colo., and desert regions of Ariz. and Calif. only.

At least 6 inches high	1-1/2 lb. plus 1/4 pt. of 2-1/2% solution	3-1/4 lb. plus 3/4 pt. of 2-1/2% solution	1-1/2 lb. plus 1/4 pt. of 2-1/2% solution
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CORN:
One application will control many annual broadleaf and grass weeds such as barnyard grass, witchgrass, P. annuus, crabgrass, foxtail, and many other weeds. For control of weeds such as foxtail, crabgrass, giant foxtail, and leafy spurge, 2 applications are needed. For control of weeds such as pigweed, amaranth, and mustard, DREXEL ATRAZINE may be applied either before planting, at planting, or after planting. Use 2-1/2 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 DREXEL 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 deep incorporation of DREXEL ATRAZINE. Best results have been obtained when DREXEL ATRAZINE is applied within two weeks prior to planting.

PRE-EMERGENCE: Apply at the rate indicated in the table below 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 DREXEL ATRAZINE in proportion to the area treated.

Soil Texture	RATE PER ACRE OF DREXEL ATRAZINE		
	Broadcast in 20-40 gals. of water per acre	20-inch Band* in 10-20 gals. of water per acre	18-inch Band* in 7-14 gals. of water per acre
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	3-1/4 lbs.	1-3/4 lbs.	1-1/4 lbs.
Heavy soils and high organic clays Apply post-emergence only	3-1/4 lbs.	1-3/4 lbs.	1-1/4 lbs.

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

LAYBY TREATMENT: Broadcast 1-1/4 to 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 20-30 inches high. When nitrogen solutions are used direct the spray to the lower 3-4 inches of corn stalks to avoid corn foliage injury. Agitation in the spray tank during application is essential.

POST-EMERGENCE WEED CONTROL WITH DREXEL ATRAZINE AND EMULSIFIABLE OIL IN WATER: The addition of oil to DREXEL ATRAZINE in water sprays may speed the activity of DREXEL ATRAZINE 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 2-1/2 lbs. of DREXEL 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 high.

AERIAL APPLICATION: Broadcasting 2-1/2 lbs. of DREXEL ATRAZINE and 1 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 1% clover in 100 bush row spacing.

POST-EMERGENCE BROADLEAF WEED CONTROL WITH DREXEL 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 DREXEL ATRAZINE and 1 gallon 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 DREXEL ATRAZINE and 1 gallon of emulsifiable oil in no less than 5 gals. of water per acre when sorghum is 8 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 volatile emulsifier. Several gals. of this type oil in the tank. Oil 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 D.D. or other materials as sorghum damage or spray clogging may result. 2. In a separate container, make a thin slurry of DREXEL 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 DREXEL ATRAZINE slurry. 5. Add the emulsifiable oil last. 6. Empty the tank as completely as possible before re-filling to prevent a buildup of oil in the tank. 7. 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. 8. If an oil film starts to build up in the tank, drain the tank and clean out with a strong detergent solution or solvent. 9. Clean the sprayer thoroughly immediately after use by flushing the system with water containing a detergent.

NOTE: 1. Do not use oil in DREXEL 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 injury may occur. 2. Do not use oil in DREXEL ATRAZINE sprays when treating hybrid 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 DREXEL ATRAZINE and emulsifiable oil in water per season.

PRECAUTIONS: 1. Heavy rains immediately following application tend to result in excessive concentrations of Atrazine in seed furrows, resulting in possible crop injury. Applications to furrow-planted sorghum should not be made until furrows are leveled, plowed in. Deep winter plows 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 use or feed forage from treated areas for 21 days following application. 5. Following harvest of a treated crop, plow, moldboard or dischprow, 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 in corn may be planted the year following treatment. 2. All other rotational crops may be planted 12 months after application. 3. Weeds may be broadcast or used in a rotation with 1-1/2 lbs. per acre fall wheat may be planted 12 months after application.

E.P.A. REG. NO. 8

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