

SUPPLEMENTAL LABELING

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ACCEPTED

Drexel

# **ATRAZINE 4L** HERBICIDE

For Season-Long Weed Control in Sorghum, Sugar Cane, Forest and Christmas Tree Plantations, Quackgrass Control, Perennial Ryegrass Grown for Seed (Pacific Northwest only) and Nonselective Weed Control on Noncrop Land.

ATRAZINE 4L CONTAINS 4 LBS. ATRAZINE PER GALLON.

## **CAUTION:**

Keep out of reach of children.

See label for first aid instructions.

2 1/2 Gallons

EPA REG. NO. 105-101  
EPA EST. NO. 10000-MO-1

### **Sorghum and Sorghum-sudan Hybrids (Grain and Forage Types):**

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

#### **Preplant (Broadcast and Grass Control):**

Broadcast in the spring after plowing at the rate indicated in Table III. Application may be made 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 after Atrazine 4L is applied within two weeks prior to planting.

#### **Pre-emergence (Broadcast and Grass Control):**

Apply during or shortly after planting, but prior to seed or crop emergence at the rate indicated in Table III.

TABLE III

Preplant and Pre-emergence Applications  
For Broadcast and Grass Weed Control in Sorghum

| Soil Texture                                                     | Organic Matter   | Broadcast Rate of Atrazine 4L Per Acre                                                                   |
|------------------------------------------------------------------|------------------|----------------------------------------------------------------------------------------------------------|
| Light Soils, sandy, loamy sands, loamy loams and sandy clay loam | any level        | DO NOT USE (except for pre-emergence use on bedded sorghum in Arizona and California as indicated below) |
| Medium and Heavy Soils                                           | Less than 1%     |                                                                                                          |
| silt loams, clay loams                                           | 1% to 1 1/2%     | 3-3 1/2 lbs.                                                                                             |
| and clays                                                        | More than 1 1/2% | 3 1/2 - 4 lbs.                                                                                           |

\*Atrazine 4L should not be applied preplant to sorghum grown in N. Mex., Okla., Texas, Ark., La., Tenn., Miss., Ala., Ga., Fla., S. Cal. and N. Cal. or pre-emergence to sorghum grown in N. Mex., Texas and Okla. except in N.E. Okla. and the Texas Gulf Coast.

In case of planting failures, sorghum can be replanted into soil previously treated with Atrazine 4L. Do not make a second broadcast application or injury may occur. If Atrazine 4L was applied in a band and sorghum is replanted in the untreated row-mid-row, Atrazine 4L can be applied in a band to the second planting.

#### **Pre-emergence Broadcast Weed Control in Furrow Irrigated Bedded Sorghum (Arizona and California only):**

For pre-emergence control of broadleaf weeds such as ground cherry, lamb's quarters, morning glory, mustard, pigweed and purslane, broadcast 1 1/2 to 2 1/2 lbs. per acre. Use the lower rate on coarse-textured soils and soils low in organic matter and use the higher rate on fine-textured soils and soils high in organic matter. Make application after bed preparation, during or after planting, but before sorghum and weeds have emerged and before first furrow irrigation. Several regular irrigations should follow the application, making sure that all soil is thoroughly wet.

#### **Precautions for Pre-emergence Applications of Atrazine 4L to Furrow Irrigated Bedded Sorghum Grown in Arizona and California:**

To avoid possible soil salinity, do not use Atrazine 4L on heavy sand soils when sorghum is planted in the furrow. Atrazine 4L applications made to sorghum growing on a very saline

After Cuts, the operator has exposed calcareous or alkali subsoils. May result in crop injury. In case of crop injury, do not replant sorghum for eight months following application. Corn may be planted immediately.

#### Postemergence Broadleaf and Grass Weed Control

Apply 2 1/2 quarts per acre of Atrazine 4L plus Emulsifiable Oil in water. Apply 2 1/2 quarts per acre of Atrazine 4L plus Emulsifiable Oil in water.

TABLE IV

Postemergence Broadleaf and Grass Weed Control in Sorghum

| Soil Type                          | Minimum Height of Sorghum at Treatment          | Broadcast Rate/Atrazine 4L |
|------------------------------------|-------------------------------------------------|----------------------------|
| Sand or loamy sand                 | DO NOT USE                                      |                            |
| Sandy loam                         | See directions for broadcast weed control below |                            |
| Silt loam to silty clay loam       | Completely emerged                              | 4 - 4 1/2 pts.             |
| Clay and Pullman clay soils        | At least 6 inches high                          | 4 - 4 1/2 pts.             |
| Silty clay loams and heavier soils | Complete, emerged                               | 6 pts.                     |

#### Postemergence Broadleaf Weed Control with Atrazine 4L plus Emulsifiable Oil in Water

Broadcast 2 1/2 quarts per acre for control of broadleaf weeds such as annual morning glory, cocklebur, lambquarters, mustard, pigweed, ragweed, smartweed and wild buckwheat. Application should be made before pigweed and lambquarters reach six inches in height and before all other weeds reach four inches in height. In Texas, New Mexico, Oklahoma, Western Kansas, Colorado and the dryest regions of California and Arizona, apply when sorghum is 6 - 10 inches in height, but before it reaches the boot stage. In all other areas, apply after sorghum reaches the boot stage. Add emulsifiable oil at the rate of 1 gallon per acre for ground applications and 1/2 gallon per acre for aerial applications. A calibration may be necessary if at weeds are not controlled or if regrowth of weeds occur.

#### Precautions for Application of Atrazine 4L plus Emulsifiable Oil in Water to Sorghum:

- 1 - Do not use oil in Atrazine 4L 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 Atrazine 4L sprays when treating inbreed 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 small amounts of water may not emulsify properly when added to the tank.
- 5 - Do not make more than one application of Atrazine 4L emulsifiable oil in water per season.

#### Postemergence Broadleaf Weed Control with Atrazine 4L plus Surfactant in California, New Mexico, Texas, Western Kansas, Colorado and Desert regions of Arizona and California only:

Broadcast 2 1/2 quarts of Atrazine 4L plus 3/4 pt. of surfactant per acre after sorghum reaches 6 inches in height, but before weeds reach 1 1/2 inches in height. Apply only on sandy loam and knal-textured soils.

#### Precautions for all Applications to Sorghum:

- 1 - Heavy rains immediately following application tend to result in excessive amounts of herbicide in seed furrow, resulting in possible crop injury. Applications in furrow-planted sorghum should not be made until furrows are leveled (plowed). Deep planter marks or seed furrows should also be leveled before application.
- 2 - Application made to sorghum growing under stress (drought or minor nutrient deficiency) or to sorghum growing on highly calcareous soils may result in crop injury.
- 3 - Do not graze or feed forage from treated areas for 21 days following application.
- 4 - Following harvest of a treated crop, plow (moldboard or disk plow) and thoroughly till the soil in the fall or spring to minimize possible injury to rotational spring-seeded crops, regardless of rate used.

For applications to furrow-irrigated bedded sorghum in Arizona and California and/or part emergence applications plus emulsifiable oil, see additional precautions under these sections of this label.

#### Suggestions for Rotational Crops:

- 1 - Land treated with Atrazine 4L should not be planted to any crop except corn or sorghum until the following year or injury may occur.
- 2 - If Atrazine 4L is applied after June 10, do not rotate with crops other than corn or sorghum the next year or injury may occur.
- 3 - If Atrazine 4L is used at a broadcast rate higher than 6 pts. per acre (or comparable rates in a band application), a crop of untreated corn or sorghum should precede the next rotational crop.
- 4 - In the High Plains and Inter-mountain areas of the West where rainfall is sparse and erratic or where irrigation is required, use Atrazine 4L to control weeds in sorghum only when sorghum is to follow sorghum or a crop of untreated sorghum, or corn in a previous rotational crop.
- 5 - In Western Minnesota and Eastern parts of the Dakotas, Nebraska, and Kansas sorghum treated with Atrazine 4L should not be followed with soybeans if the broadcast rate applied was more than 4 pts. per acre (or comparable rate in a band application) may occur.
- 6 - Injury may occur to soybeans planted in North Central Iowa and South Central Minnesota the year following an Atrazine 4L application on Harps, Canisus, Berdes or other soils having calcareous surface layer.
- 7 - Do not plant sugar beets, tobacco, vegetables, (including dry beans), spring-seeded small grains or small-seeded legumes and grasses the year following Atrazine 4L application or injury may occur.

#### Sugar cane:

For control of nonrhizomatous weeds, such as crabgrass, jungle rice, wild grass, foxtail, amaranth, Florida panicum, ragweed and similar plants, broadcast 2 - 4 quarts per acre in 20 - 50 gallons of water for adequate coverage of the soil surface at time of planting or rainfallow, but before the cane emerges. One additional application may be made over the cane as it emerges, and two additional applications may be made intensive after emergence, as a directed spray.

For control of emerged Peltary Weeds (army weed) (Florida only) Apply 1/2 - 1 pt. per acre in 40 gallons of water per acre as a directed spray. Add 2 quarts of surfactant per acre 50 gallons of spray and be sure weed foliage is thoroughly covered.

#### Precautions:

- 1 - Do not apply Direct Atrazine 4L after "close in".
- 2 - Do not apply more than 6 1/2 quarts of Direct Atrazine 4L to any one crop of cane.

#### Forest and Christmas Tree Plantations:

Douglas Fir, Grand Fir, Noble Fir, White Fir, Lodgepole Pine, Ponderosa Pine and Scotch Pine (Pacific Northwest - west of Cascade only). Annual broadcast and grass seed control. Broadcast 2 - 4 quarts in 20 - 40 gallons of water per acre to assure thorough coverage. For band applications, reduce rate of Direct Atrazine 4L and volume of water proportionally to the acre treated. For example, when treating a 4 foot band over trees 10 to 15 feet apart, apply 1 - 2 quarts per acre. Apply between fall and early spring when trees are dormant or soon after transplanting and before weeds are 1 1/2 inches high.

- Ryegrass Control:**
- Broadcast 4 quarts per acre in 20 - 40 gallons of water for adequate coverage. Apply in fall or early spring while weeds 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 apply to flooded areas.
    - 2 - Do not apply to seedbeds.
    - 3 - Do not make more than one application per year.
  - **• Perennial Ryegrass Control for Seed (Pacific Northwest only):**
    - For the control of annual broadleaf and grass weeds such as annual ryegrass, rattail fescue and similar species. Broadcast 2 1/2 pints in 15 gallons or more water per acre, after first rains.
    - **Precautions:**
      - 1 - Apply only to perennial ryegrass stands from which a seed crop has been harvested.
      - 2 - Do not apply Drexel Atrazine 4L to ryegrass more than 2 years in succession.
      - 3 - Do not graze treated land within 10 days of application.
      - 4 - Do not plant treated land to other crops for at least 18 months.
  - **Nonselective Weed Control on Noncrop Land:**
    - For use on fence rows, around utility poles, and industrial sites, highway medians and shoulders, railroad right-of-way, lumberyards, petroleum tank farms, and in noncrop areas on farms, such as around buildings, equipment, and fuel storage areas, along fences and lanes. Apply Drexel Atrazine 4L at rates recommended below before or soon after weeds begin growth. Postemergence applications should be made when weeds are young and actively growing. Use higher rates on heavy clay and much soil. Do not contaminate domestic or irrigation water supplies, or lakes, streams, or ponds. Use sufficient water to assure thorough coverage. Use at least 1 gallon of water for each quart of Atrazine 4L, more if practical. Mechanical by-pass or jet application is necessary to keep Drexel Atrazine 4L in suspension during application.
    - Most annual broadleaf and grass weeds, broadcast 2 1/2 pints to 10 quarts per acre. Hard to kill annual and many perennial broadleaf and grass weeds, broadcast 10 - 20 quarts per acre. Hard to kill biennial and perennial weeds such as bull thistle and sow thistle, broadcast 20 - 40 quarts per acre. For longer residual control in regions of high rainfall and long growing season, broadcast 20 - 40 quarts per acre. For small areas, 1/2 pint per 1,000 sq. ft. is equivalent to 2 1/2 quarts per acre.

Manufactured by  
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