

# **BERMUDAGRASS, CENTIPEDEGRASS, ST. AUGUSTINE GRASS, AND ZOYSIAGRASS**

General Information

## **USE INFORMATION**

ATRA-5 Herbicide will control most annual Broadleaf and Grass weeds in Corn, Sorghum, Sugarcane and certain other crops as specified on the label. This product may be applied before or after weeds emerge.

In each case where a range of rates is given, the lower rate should be used on Coarse textured soil and soil low in organic matter and the higher rate should be used on Fine textured soil and soil high in organic matter.

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

This product is non-corrosive to equipment and metal surfaces, nonflammable and has low electrical conductivity. Care should be taken to avoid using this product near adjacent desirable plants or in greenhouses, or injury may occur.

To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, as crop injury may result.

Note: The Seller does not recommend the use of this product in combination with other herbicides or oils except as specifically described on the label or in literature published by the Seller.

**FAILURE TO FOLLOW ALL USE PRECAUTIONS AND RESTRICTIONS ON THE LABEL  
MAY RESULT IN POOR WEED CONTROL, CROP INJURY OR ILLEGAL RESIDUES.**

## **RESISTANCE MANAGEMENT**

This product is a Group 5 Herbicide.

Following many years of continuous use of this product and chemically related products, biotypes of some of the weeds listed on the label have been reported

which cannot be effectively controlled by this and related herbicides. Where this is known or suspected and weeds controlled by this product are expected to be present along with resistant biotypes, use this product in combinations or in sequence with other registered herbicides which are not triazines. If only resistant biotypes are expected to be present, use a registered non-triazine herbicide. Consult with your State Agricultural Extension Service for specific recommendations.

## APPLICATION PROCEDURES

**GROUND APPLICATION:** Use conventional ground sprayers equipped with nozzles that provide accurate and uniform application. Be certain that nozzles are uniformly spaced and are the same size. Calibrate sprayer before use and recalibrate at the start of each season and when changing carriers. Unless otherwise specified, use a minimum of 10 gallons of spray mixture per acre for all pre-plant incorporated, preplant surface, pre-emergence and post-emergence applications (with or without oil or surfactant) with ground equipment. Use a pump with capacity to:

1. Maintain 35 to 40 psi at nozzles.
2. Provide sufficient agitation in tank to keep mixture in suspension.
3. Provide a minimum of 20% bypass at all times.

Use centrifugal pumps which provide propeller shear action for dispersing and mixing this product. The pump should provide a minimum of 10 gallons per minute per 100 gallon tank size circulated through a correctly positioned sparger tube or jets.

Use screens to protect the pump and to prevent nozzles from clogging.

Screens placed on the suction side of the pump should be 16-mesh or coarser. Do not place a screen in the recirculation line. Use 50-mesh or coarser screens between the pump and boom and where required, at the nozzles. Check nozzle manufacturer's recommendations.

**AERIAL APPLICATION:** Use aerial application only where broadcast applications are specified. Apply in a minimum of 1 quart of water for each quart of this product applied per acre. For post-emergence treatments on Corn and Sorghum, apply the rate in a minimum of 2 gallons of water per acre. Avoid applications under conditions where uniform coverage cannot be obtained or where excessive spray

drift may occur.

Avoid application to humans or animals. Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin.

#### THIS PRODUCT IN WATER OR LIQUID FERTILIZER APPLICATIONS

Nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier for pre-emergence and pre-plant applications of this product on Corn and Sorghum. Check the compatibility of this product with liquid fertilizer and/or nitrogen solution as shown below before use. Do not apply in nitrogen solution or complete liquid fertilizer after Corn or Sorghum emerges, or crop injury may occur.

Refer in the label for tank mix information.

#### Limitations, Restrictions, and Exceptions

##### TURFGRASS FOR FAIRWAYS, LAWNS, SOD PRODUCTION\* AND SIMILAR AREAS

- Except FL, see "TURFGRASSES FOR SOD (FL ONLY)" in preceding section.

##### BERMUDAGRASS, CENTIPEDEGRASS, ST. AUGUSTINE GRASS AND ZOYSIAGRASS

Apply this product after October 1 before emergence of Winter annual weeds for control of Annual bluegrass, Burclover, Carpet burweed, Chickweed, Corn speedwell, Henbit, Hop clover and Spurweed. This product will control Annual bluegrass even if it is emerged at time of treatment. For control of Summer annual weeds listed in the pre-emergence portion of the "THIS PRODUCT APPLIED ALONE - CORN AND GRAIN SORGHUM; PRE-PLANT SURFACEAPPLIED, PRE-PLANT INCORPORATED OR PRE-EMERGENCE" and "THIS PRODUCT APPLIED ALONE - CORN AND GRAIN SORGHUM; POSTEMERGENCE WITH EMULSIFIABLE OIL OR OIL CONCENTRATE IN WATER" section of the label, also apply this product in late Winter before the weeds emerge. Apply in a minimum of 15 gallons of water per acre or 1 gallon per 1,000 square feet.

Where Annual bluegrass is the major weed, use 1.6 pints of this product per acre (17.6 milliliters or 0.6 fluid ounce per 1,000 square feet). Use 3.2 pints of this product per acre (35.2 milliliters or 1.2 fluid ounces per 1,000 square feet) for control of the other weeds named above. Do not exceed 2 pints of this product per acre per treatment on newly-sprigged Turfgrass or on hybrid Bermudagrass such as

Tiflawn, Tifway and Ormond. For continued Summer annual weed control, apply another 1.6 pints of this product per acre at least 30 days after the previous application, but not after April 15. However, do not make more than two applications of this product per year.

On newly-sprigged Turfgrass and hybrid Bermudagrass, temporary slowing of growth and yellowing may occur following application.

Use Precautions and Restrictions:

1. For Turfgrass at residential sites including homes, daycare facilities, schools, playgrounds, parks, recreational areas and sports fields: Do not apply more than 1.0 pound a.i. (1.6 pints) per acre for any application. Do not apply more than 2.0 pounds a.i. (3.2 pints) per acre per year.
2. Do not graze or feed turf clippings to animals or illegal residues may result.

To avoid turf injury: 1) Use only on Turfgrass reasonably free of infestations of insects, nematodes and diseases. 2) Do not use on golf greens. 3) Do not use North of NC (except may be used in VA Coastal Plains) or West of the high rainfall areas of Eastern OK and Eastern TX. 4) Do not use on muck or alkaline soils. 5) Do not apply over the rooting area of trees or ornamentals not listed on the label. 6) Do not overseed with desirable Turfgrass within 4 months before or 6 months after treatment. 7) Do not apply this product to newly-seeded Bermudagrass until it has over-Wintered and has a well-developed rhizome system. Do not exceed 1.6 quarts of product per acre within 12 months of seeding Bermudagrass.

Method

[Broadcast/Foliar Air](#)

[Broadcast/Foliar Ground](#)

Rates

[field\\_rates 0](#)

[field\\_rates 1](#)

[field\\_rates 2](#)

[field\\_rates 3](#)

[field\\_rates 4](#)

[field\\_rates 5](#)

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Restricted Entry Interval

12 hours

Exception: If the product is soil-injected or soil-incorporated, the WPS, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

Timings

[Preemergence \(Weed\)](#)