

**SUPPLEMENTAL LABEL**

*This supplemental label expires on 03/10/2023 and must not be used or distributed after this date.*

MESOTRIONE	GROUP	27	HERBICIDE
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**Supplemental Label to Add Directions for Use on Sod Farms.**

<b>ACTIVE INGREDIENT:</b>	<b>(% by weight)</b>
Mesotrione: 2-[4-(methylsulfonyl)-2-nitrobenzoyl]-1,3-cyclohexanedione.....	40.0%
<b>OTHER INGREDIENTS:</b> .....	<u>60.0%</u>
<b>TOTAL</b> .....	100.0%

Contains 4 lbs. Mesotrione per gallon.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read the label affixed to the container for **Atticus Cavallo 4 SC** before applying.

**This labeling must be in possession of the user at the time of application.**

Use of **Atticus Cavallo 4 SC** according to this labeling is subject to the use precautions and limitations imposed by the label affixed to the container for **Atticus Cavallo 4 SC**.

**PRODUCT INFORMATION**

**Atticus Cavallo 4 SC** is a systemic pre-emergence and post-emergence herbicide for selective contact and residual control of broadleaf weeds in labeled crops. In pre-emergence applications, weeds take up the product through the soil during weed emergence. Dry weather conditions reduce pre-emergent effectiveness of **Atticus Cavallo 4 SC**. At least ¼-inch of rainfall must occur within 7-10 days of application; rotary hoeing activates **Atticus Cavallo 4 SC**. In post-emergence applications, vulnerable weeds take up the product through treated foliage and stop growing soon after application. It can take up to two weeks for weeds to die. **Atticus Cavallo 4 SC** is absorbed by soil and/or through foliage of emerged weeds.

**Atticus Cavallo 4 SC** does not control most species of grass weeds. **Atticus Cavallo 4 SC** can be tank-mixed with other herbicides registered to control grass weeds (see tank-mix information in this label for additional information). It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank mixing. Users must follow the most restrictive directions for use and precautionary statement for each product in the tank mixture.

**EPA Reg. No.: 91234-75**

## CROP USE DIRECTIONS – TURFGRASS

This product is applied pre-emergence and post-emergence to provide selective contact and residual control of Turfgrass weeds. When applied pre-emergence, weeds absorb this product during emergence from the soil. Pre-emergence activity may be reduced under dry conditions. Activate this product with 0.15 inch of irrigation if rain has not occurred within 10 days of application. When used post-emergence, this product is absorbed by susceptible weeds through foliar contact and soil absorption. Foliage of treated weeds cease to grow after application of this product, then turn white from loss of chlorophyll and die within three weeks. Make a repeat application after 2 to 3 weeks to improve post-emergence weed control. Add a nonionic surfactant (NIS) when making post-emergence applications.

This product may cause temporary whitening of Turfgrass foliage. Whitening typically occurs 5 to 7 days after application and lasts for several weeks. Repeat application to the same site causes less whitening of plant tissue.

This product controls weeds prior to and during seeding of certain Turfgrasses during Turf renovation (see “NEW SEEDINGS” section). If applied pre-emergence to established Turf, tank-mix this product with other pre-emergence herbicides including prodiamine (e.g., Barricade®, EPA Reg. No. 100-1139) or pendimethalin (e.g., Pin-Dee™ 3.3 T&O, EPA Reg. No. 19713-668) for longer residual and broad spectrum control.

### PRECAUTIONS

- Residential Lawn Applications: Unless renovating and/or reseeding home lawns, avoid broadcast application of this product for pre-emergence and post-emergence weed control as undesirable whitening of some Turfgrasses may occur.
- Bentgrass, Bermudagrass, Kikuyugrass, *Poa annua*, Seashore paspalum and Zoysiagrass are sensitive to applications of this product. Avoid spraying these types of Turf unless control and/or injury can be tolerated. Maintain a five foot buffer between treated areas and Bentgrass or *Poa annua* greens.
- To reduce movement into sensitive species including Bentgrass, keep people and pets off treated areas until spray has dried and irrigate lightly to move product from Turf foliage before resuming normal irrigation.
- Clean sprayer thoroughly after an application of this product if the same equipment is used to apply products to Bentgrass/*Poa annua* turf areas.
- Avoid over-spray or drift of spray applications onto ornamentals or flower beds and gardens. Roses and Daylilies are sensitive to this product.
- Avoid applications over-the-top of exposed roots of trees and ornamentals.

### RESTRICTIONS

- **DO NOT** apply more than 16 fluid ounces of this product (0.5 lb. a.i.) per acre per year.
- **DO NOT** apply more than 8 fl oz. (0.25 lb a.i.) per acre in a single application. Refer to sections below for details on specific grasses.
- **DO NOT** apply more than 4 applications per acre per year when using the lowest rate.
- Minimum retreatment interval is 14 days.
- **DO NOT** use on golf course putting greens.
- **DO NOT** plant any crop other than Turfgrass species for 18 months after the last application of this product or injury may occur.
- **DO NOT** apply by air.
- **DO NOT** apply through any type of irrigation system.
- **DO NOT** use grass clippings from treated Turf as mulch around trees or in vegetable/flower gardens.
- **DO NOT** apply an organophosphate or carbamate insecticide within 7 days of application of this product as injury to Turf may occur.

## TANK-MIXTURE

This product has been tested in many tank-mixtures with products containing atrazine (e.g., Atrazine 4L, EPA Reg. No. 19713-11), bentazon (e.g., Basagran, EPA Reg. No. 7969-45), carfentrazone (e.g., Quicksilver™, EPA Reg. No. 279-3301), dicamba (e.g., Vanguish®, EPA Reg. No. 100-884), fluroxypyr (e.g., Spotlight™, EPA Reg. No. 62719-586), proflaminate (e.g., Barricade, EPA Reg. No. 100-1139), simazine (e.g., Princep, EPA Reg. No. 100-526) and triclopyr (e.g., Turflon® ester, EPA Reg. No. 17545-8) for safety and efficacy on Turfgrasses. Apply this product at reduced rates (4 fl. ozs. of this product per acre) (0.125 lb a.i./A) if tank-mixed with atrazine, bentazone or simazine. Other tank-mixtures may be safe but has not been tested. Test on a small scale for compatibility, safety and efficacy before treating large areas if wanting to tank-mix this product with other herbicides.

It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank-mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank-mixture.

## USE SITES

This product may be used in Turfgrasses species listed on this label in commercial and residential sites to control weeds. Use sites include noncrop areas including golf course, sod farms, athletic fields, parks, residential and commercial properties, cemeteries, airports and lawns.

**DO NOT** use on golf course putting greens and maintain a five foot buffer between treated areas and putting greens.

## TURFGRASS SPECIES

This product has been tested on the following species of Turfgrass and found to be safe under trial conditions:

Turfgrass Species	Scientific Name	Fl. oz./A (lb a.i./A)
Buffalograss	<i>Buchloe dactyloides</i>	5 to 8 (0.155 – 0.25)
Centipedegrass	<i>Eremochloa ophiuroides</i>	5 to 8 (0.155 – 0.25)
Fine fescue* (Creeping red, Chewings and Hard)	<i>Festuca</i> spp.	5 (0.155)
Kentucky bluegrass	<i>Poa pratensis</i>	5 to 8 (0.155 – 0.25)
Perennial ryegrass*	<i>Lolium perenne</i>	5 (0.155)
St. Augustinegrass (grown for sod)	<i>Stenotaphrum secundatum</i>	4 (0.125)
Tall Fescue	<i>Festuca arundinacea</i>	5 to 8 (0.155 – 0.25)
*See additional instructions below.		

## WEEDS CONTROLLED

Common Name	Scientific Name	Pre-emergence <sup>1</sup>	Post-emergence <sup>2</sup>
Barnyardgrass	<i>Echinochloa crus-galli</i>	Y	Y
Bentgrass, Creeping	<i>Agrostis stolonifera</i>	Y	Y
Bluegrass, Annual	<i>Poa annua</i>	Suppression	N
Buckhorn plantain	<i>Plantago lanceolata</i>	Y	Y
Buttercup	<i>Ranunculus sardous</i>	- <sup>3</sup>	Y
Carpetweed	<i>Mollugo verticillata</i>	Y	Y
Chickweed, Common	<i>Stellaria media</i>	Y	Y
Chickweed, Mouseear	<i>Cerastium vulgatum</i>	Y	Y

Clover, Large hop	<i>Trifolium aurem</i>	Y	Y
Clover, White	<i>Trifolium repens</i>	Y	Y
Crabgrass, Large	<i>Digitaria sanguinalis</i>	Y	Y <sup>4</sup>
Crabgrass, Smooth	<i>Digitaria ischaemum</i>	Y	Y <sup>4</sup>
Crabgrass, Southern	<i>Digitaria ciliaris</i>	Y	Y <sup>4</sup>
Curly dock	<i>Rumex crispus</i>	-	Y
Dandelion, Catsear	<i>Hypochoeris radicata</i>	-	Y
Dandelion, Common	<i>Taraxacum officinale</i>	-	Y
Florida betony	<i>Stachys floridana</i>	-	Y
Florida pusley	<i>Richardia scabra</i>	-	Y
Foxtail, Yellow	<i>Setaria glauca</i>	Y	Y
Galinsoga	<i>Galinsoga ciliata</i>	Y	Y
Goosegrass	<i>Eleusine indica</i>	-	Y <sup>4</sup>
Ground ivy	<i>Glechoma hederacea</i>	-	Y
Healall	<i>Prunella vulgaris</i>	-	Y
Henbit	<i>Lamium amplexicaule</i>	-	Y
Lambsquarters, Common	<i>Chenopodium album</i>	Y	Y
Lawn burweed	<i>Soliva sessilis</i>	-	Y
Lovegrass, Tufted	<i>Eragrostis pectinacea</i>	-	Y
Marestail	<i>Conyza canadensis</i>	-	Y
Nimblewill	<i>Muhlenbergia schreberi</i>	-	Y
Nutsedge, Yellow	<i>Cyperus esculentus</i>	-	Y
Oxalis	<i>Oxalis stricta</i>	-	Y
Pigweed, Redroot	<i>Amaranthus retroflexus</i>	Y	Y
Pigweed, Smooth	<i>Amaranthus hybridus</i>	Y	Y
Purslane, Common	<i>Portulaca oleracea</i>	Y	Y
Shepherd's purse	<i>Capsella bursa-pastoris</i>	Y	Y
Smartweed, Pale	<i>Polygonum lapathifolium</i>	Y	Y
Smartweed, Pennsylvania	<i>Polygonum pennsylvanicum</i>	Y	Y
Speedwell, Persian	<i>Veronica persica</i>	Y	-
Speedwell, Purslane	<i>Veronica peregrina</i>	Y	-
Sowthistle	<i>Sonchus oleraceus</i>	-	Y
Swinecress	<i>Coronopus didymus</i>	-	Y
Thistle, Canada	<i>Cirsium arvense</i>	-	Y
Verbena	<i>Verbena hastata</i>	-	Y
Wild carrot	<i>Daucus carota</i>	Y	Y
Wild Violet	<i>Viola pranticola</i>	-	Y
Windmillgrass	<i>Chloris verticillata</i>	-	Y

<sup>1</sup>For broad spectrum pre-emergence activity, apply with a grass pre-emergence herbicide including prodiamine (e.g., Barricade, EPA Reg. No. 100-1139) except when used for weed control in new seedings.

<sup>2</sup>Weed control with post-emergence applications require a second application after 2 to 3 weeks. Apply to young, actively growing weeds with nonionic type of surfactant.

<sup>3</sup>Not tested.

<sup>4</sup>For best post-emergence control, apply at less than 4 tiller Crabgrass and Goosegrass.

## APPLICATION INSTRUCTIONS

### PRE-EMERGENCE APPLICATION

Apply this product at 4 to 8 fluid ounces per acre (0.125 – 0.25 lb a.i./A) in at least 30 gallons of water prior to

weed seed germination.

**DO NOT** exceed 5 fluid ounces per acre (0.155 lb a.i./A) per application to Perennial ryegrass or Fine fescues or mixed stands that contain greater than 50% Perennial ryegrass and/or Fine fescue.

**DO NOT** exceed 4 fluid ounces per acre (0.125 lb a.i./A) to St. Augustinegrass sod. Make application close to anticipated weed seed germination.

Combine this product with a pre-emergence herbicide including prodiamine (e.g., Barricade, EPA Reg. No. 100-1139) for extended control of key annual monocot weeds including Crabgrass and Foxtail. In established Turf, this product is more effective as a post-emergence application unless combined with another soil active herbicide.

#### **NEW SEEDINGS / NEW LAWN ESTABLISHMENT**

Apply this product at 5 to 8 fluid ounces per acre (0.155 – 0.25 lb a.i./A) in at least 30 gallons of water prior to seeding or post seeding of tolerant Turfgrass species listed on this label, except Fine fescue. This product may reduce density of Fine fescue seedings. This product can be used on grass seed blends that contain less than 20% by weight of Hard or Fine fescue. This product will control many monocot and dicot weeds that compete with and slow the establishment of the Turfgrass stands. For best results, apply at grass seeding or close to seeding. Avoid spraying on newly germinated Turfgrass plants. Before making a post-emergence application, wait until the newly germinated Turf has been mowed two times or four weeks after emergence (whichever is longer).

#### **POST-EMERGENCE APPLICATION**

Apply this product at 4 to 8 fluid ounces per acre (0.125 – 0.25 lb a.i./A) in at least 30 gallons of water. Apply with a nonionic type of surfactant. A repeat application at two to three weeks may be required for adequate weed control. Weed control is most effective on young, actively growing weeds. Efficacy will be reduced under moisture stress or from applications to mature weeds.

#### **CONTROL OF BENTGRASS AND NIMBLEWILL**

Apply this product at 5 fluid ounces per acre (0.155 lb a.i./A) in at least 30 gallons of water at two to three week intervals for up to three applications. Apply with a nonionic type of surfactant.

Bentgrass control may be more effective in the late Summer/early Fall just before onset of renewed Bentgrass growth than Spring/early Summer applications.

On St. Augustinegrass (sod uses only) and Centipedegrass, if this product is tank-mixed with atrazine or simazine, **DO NOT** exceed 4 fluid ounces of this product (0.125 lb a.i.) and 0.5 pound atrazine or simazine per acre. Apply the tank-mixture to established Turf only. It is the pesticide user's responsibility to ensure that all products are registered for the intended use. Read and follow the applicable restrictions and limitations and directions for use on all product labels involved in tank-mixing. Users must follow the most restrictive directions for use and precautionary statements of each product in the tank-mixture.

#### **DORMANT BERMUDAGRASS APPLICATIONS ONLY**

Apply this product at 5 fluid ounces per acre (0.155 lb a.i./A) to control Winter weeds listed in the "WEEDS CONTROLLED" table on dormant Bermudagrass. Repeat application in two to three weeks. Applications made to semi-dormant Turf will cause whitening of the Bermudagrass.

**SPOT APPLICATION OF THIS PRODUCT**

<b>Spray Mix</b>	<b>Rate of This Product</b>	<b>Nonionic Surfactant (NIS)</b>
2 gals.	1 tsp.	3 tsps.

Apply the spray mix at 1 gallon per 1,000 square feet.

**DO NOT** apply more than 16 fluid ounces of this product (0.5 lb. a.i.) per acre per year.

Manufactured for:

**Atticus, LLC**

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