

RESTRICTED USE PESTICIDE

Because Pronamide has produced tumors in laboratory animals, this product is 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.

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HERBICIDE

PRODUCT BULLETIN

Willowood Pronamide 3.3SC

EPA Reg. No. 87290-22

FIFRA 2(ee) Recommendation*

For Distribution and Use in All States except Texas.

Selective Control of Annual Bluegrass in Warm Season Turf

ATTENTION

*This recommendation is made as permitted under FIFRA 2(ee) and has not been submitted to or approved by the EPA or state lead pesticide agency.

- Read the label affixed to the container for Willowood Pronamide 3.3SC before applying. Carefully follow all precautionary statements and applicable use directions.
- Use of Willowood Pronamide 3.3SC according to the is product bulletin is subject to all use precautions and limitations imposed by the label affixed to the container for Willowood Pronamide 3.3SC.

Product Information

Willowood Pronamide 3.3SC is a selective herbicide for the preemergence and postemergence control of annual bluegrass (*Poa annua*) from warm season grasses and the removal of perennial rye grass (*Lolium perenne*) from warm season grasses during spring transition. Warm season grasses include ornamental bermudagrass (*Cynodon dactylon*), Zoysiagrass, St. Augustinegrass and Centipedegrass.

Annual Bluegrass (*Poa Annua*) Control

Willowood Pronamide 3.3SC will control annual bluegrass from pre-germination and seedling stages through tillering, heading and seed formation. Willowood Pronamide 3.3SC acts slowly on seedling to mature annual bluegrass. Following application of Willowood Pronamide 3.3SC annual bluegrass may first become dark green and then gradually turn yellow and die over a 3- to 5-week period.

For effective control of annual bluegrass in turf, moisture is necessary to move Willowood Pronamide 3.3SC in the weed root zone. Refer to the Moisture Requirements section of the Willowood Pronamide 3.3SC label for details.

Effect of Soil Type, Moisture and Temperature

Willowood Pronamide 3.3SC is most active in coarse to medium texture soils of low organic matter and relatively inactive in peat or muck soils or mineral soils high in organic matter content at rates specified in this label. Herbicidal activity is best in soils containing less than 4 percent organic matter. Use in soils with higher organic matter may result in inconsistent or incomplete weed control.

The herbicidal activity of Willowood Pronamide 3.3SC is mainly through root absorption in sensitive weed species. Rain, melting snow or irrigation is **essential** following treatment to move Willowood Pronamide 3.3SC into the root zone of germinating weeds.

Under field conditions, Willowood Pronamide 3.3SC will remain relatively stable with little loss of herbicidal activity when soil temperatures are less than 55°F. As soil temperatures increase, degradation of the active ingredient takes place. Willowood Pronamide 3.3SC may degrade rather quickly if left exposed on the soil surface in warm weather. If Willowood Pronamide 3.3SC is applied when air temperature exceeds 85°F, the treatment must be soil incorporated to a shallow depth (top two to three inches) or watered into the soil as soon as possible.

Dosage and Timing

For annual bluegrass control, Willowood Pronamide 3.3SC is applied at the rate of 1.25 to 3.5 pints of product (0.5 to 1.5 lb. active ingredient) per acre broadcast application. The dosage rate required is dependent on the growth stage of annual bluegrass at time of application and the use site.

For application on golf course greens and tees, do not apply more than 2.5 pt/A (1 lb. active ingredient) per application and ensure there is no overlap of the spray or turfgrass injury may occur. For most effective *Poa annua* control, particularly on golf course greens, make applications from early fall through December. Split applications of the rate above can be made 30 to 60 days apart but the total amount on greens or tees should not exceed 1.5 lbs. active ingredient.

Follow the dosage rate and timing instructions given below:

Annual Bluegrass Growth Stage	Willowood Pronamide 3.3SC pints/Acre¹ Broadcast Application
Preemergence or early postemergence	1.25 – 2.5 ²
Postemergence – early tillering to heading	2.0 – 2.5
Postemergence – seed forming stages	2.5 – 3.5 ³

¹ One acre equals 43,560 sq. ft.

² Use the higher rate when longer preemergence residual control is desired.

³ On golf course greens and tees, do not apply more than 2.5 pts/acre (1 lb. ai/acre) per application and be careful not to overlap spray patterns.

Turf– Specific Use Restrictions

- This product may be used on non-residential seeded, sodded, or sprigged turf that is well established. Use of this product on turf that has been weakened by weather-, pest-, disease-, chemical-, or mechanical-related stress may increase the chances of turf injury.
- This product must only be applied to turf areas that are composed of the following turfgrass species:
 - Bermudagrass (*Cynodon dactylon*)
 - Centipedegrass (*Eremochloa ophiuroides*)
 - St. Augustinegrass (*Stenotaphrum secundatum*)
 - Zoysiagrass (*Zoysia japonica*)
- On golf course greens and tees do not exceed the recommended rate of 2.5 pt/A (1 lb ai/A) per application. Ensure there is no overlap of the spray pattern or turf grass injury may occur. Application of 1.5 to 2.0 pt/A applied prior to soil temperatures of 55 degrees is an effective rate for pre and early post emergence control of *Poa annua*.
- This product has not been screened on all new Ultra dwarf turf varieties. Before using on these new ultra dwarf varieties test on nursery greens prior to application on golf course greens. Observe response for 30 days to insure any potential injury would be acceptable.
- Avoid spraying on hill sides, fairways, or approaches that may drain onto bentgrass greens or to area overseeded with sensitive cool season grasses.

- Do not make an application of a wetting agent for the purpose of frost protection or soil penetration to greens or tees 14 days prior to or after a Willowood Pronamide 3.3SC application as injury may result.
- Do not apply Willowood Pronamide 3.3SC herbicide to areas that are to be overseeded with susceptible cool season grasses within 90 days of treatment unless deactivation is planned.
- Do not apply Willowood Pronamide 3.3SC to dichondra, perennial bluegrass, annual and perennial ryegrasses, fescues and bentgrasses.
- Do not graze treated areas and do not feed clippings to livestock.
- Do not apply more than 1.5 lbs./acre active ingredient (3.5 pints/acre of Willowood Pronamide 3.3SC) per year.

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