



DuPont Agricultural Products

"... A Growing Partnership With Nature"



7M 25 352-541 6-29-98 SUPPLEMENTAL LABELING 10/2

ASSURE® II HERBICIDE FOR POSTEMERGENCE GRASS CONTROL IN MINT

ASSURE® II HERBICIDE

EPA REG. NO. 352-541

FOR POSTEMERGENCE GRASS CONTROL IN MINT

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

DuPont "Assure" II Herbicide is a selective postemergence herbicide recommended for control of annual and perennial grasses in mint. Applied at recommended rates and timings, "Assure" II Herbicide will control emerged grasses. Subsequent flushes of grasses require additional treatment.

HOW TO USE

Arid areas are generally defined as areas where supplemental irrigation is necessary during the crop growing period. Non arid areas are generally defined as areas with enough rainfall to support crop production without irrigation during the growing season.

Ground Application

Broadcast Application

- Use flat fan or hollow cone nozzles at 25-60 psi. Do not use flood, rain drop, whirl chamber, or any other nozzle types that produce coarse, large spray droplets. Increase spray volume and pressure as weed or crop density and size increase. Do not exceed 40 gal of water per acre or control will be reduced. Adjust the boom and nozzle height according to the nozzle manufacturer's specifications to obtain proper spray coverage.

Aerial Application

- Use nozzle types and arrangements that provide optimum spray distribution and maximum coverage. Use a minimum of 3 gal of water per acre in non arid areas. Use a minimum of 5 gal of water per acre in arid areas. Do not apply during a temperature inversion, when winds are gusty, or when other conditions favor poor coverage and/or off-target spray movement.

See full label for spray drift management and sprayer cleanout directions.

Weeds Controlled/Rate Charts

Apply "Assure" II Herbicide for control of the grasses listed below at the range indicated.

Table with columns: Weeds Controlled, Application Size at (Inches), and "Assure" II Oz Product/A\*\*\*. Lists various grasses like Barnyardgrass, Crabgrass, and others with their respective application rates.

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	Size at Application (Inches)	"Assure" II Oz Product/A
Perennial Grasses		
Bermudagrass ( <i>Cynodon dactylon</i> )	3" tall (or up to 6" runners)	10
Johnsongrass, rhizome ( <i>Sorghum halepense</i> )	10-16	10
Quackgrass ( <i>Agropyron repens</i> )	6-10	10
Wirestem Muhly ( <i>Muhlenbergia frondosa</i> )	4-8	8

If perennial grasses regrow, reapply ASSURE II at 6-7 oz per acre. Application timing should be as follows: bermudagrass (3" tall or up to 6" runners), rhizome johnsongrass (6"-10"), quackgrass (4"-8"), wirestem muhly (4"-8").

**\*Length of lateral growth**

\*\*Size in height or diameter, whichever is more restrictive. Applications to plants with more than three tillers may result in unsatisfactory control.

\*\*\*For annual and perennial grasses, up to 12 oz per acre may be applied, based on local recommendations.

**Tank Mix Applications**

Do not tankmix "Assure" II with any pesticide or spray adjuvant except as directed on this label or on other supplemental labels.

**Sequential Applications with Post Broadleaf Herbicides**

NOTE: Reduction in grass control is possible when "Assure" II is applied immediately prior to or sequentially after an application of a post broadleaf herbicide. Observe the following recommendations:

- After applying "Assure" II, wait a minimum of 24 hours before applying a post broadleaf herbicide.
- In fields treated with a post broadleaf herbicide, do not apply "Assure" II until grass plants begin to develop new leaves (generally 7 days after the post broadleaf herbicide application).

**Spray Additives**

Always include a nonphytotoxic petroleum based crop oil concentrate at 1% v/v (4 qts/100 gals) or a nonionic surfactant at 0.25% v/v (1 qt/100 gals).

**Resistance**

Biotypes of certain weeds listed on this label are resistant to Assure II, and other herbicides with the same mode of action,\* even at exaggerated application rates. Biotypes are naturally occurring individuals of a species identical in appearance but with slightly different genetic compositions; the mode of action of a herbicide is the chemical interaction that interrupts a biological process necessary for plant growth and development.

If weed control is unsatisfactory, it may be necessary to respray problem areas using a product with a different mode of action. If resistant weed biotypes such as Wild Oats, and Annual Ryegrass are suspected or known to be present, consider using another herbicide treatment to help control these biotypes. It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes.

\* Naturally occurring weed biotypes that are resistant to Hoelon or Poast, will also be resistant to Assure II.

**Restrictions**

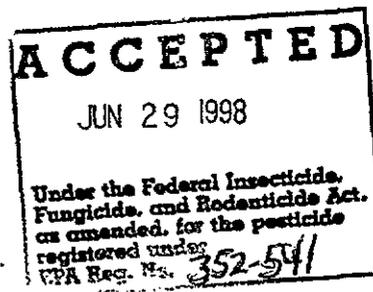
- Applications of Assure II to crops under stress (such as stress due to lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, or widely fluctuating temperatures) may result in crop injury, or injury that is more enhanced or prolonged. Before making applications of Assure II to crops previously under stress, or injured from other pesticide applications, the crop needs to be fully recovered and growing vigorously.
- Do not apply "Assure" II within 30 days of mint harvest.
- The maximum use rate of "Assure" II is 30 oz per acre per season.
- Do not apply more than 2 applications per acre per season. Application intervals should be greater than 7 days apart to allow regrowth to occur.
- Rainfall within 1 hour of application will reduce grass control from "Assure" II.
- Do not apply to grassy weeds suffering stress from lack of moisture, cold, herbicide injury, and insect or disease injury as control may be reduced.
- Do not apply "Assure" II through any type of irrigation system.
- Most grass crops, including wheat, barley, rye, oats, sorghum, rice, and corn are highly sensitive to "Assure" II Herbicide and all direct or indirect contact (such as spray drift) should be avoided.

**IMPORTANT**

BEFORE USING "ASSURE" II, READ AND FOLLOW ALL APPLICABLE DIRECTIONS, RESTRICTIONS AND PRECAUTIONS ON THE EPA-REGISTERED LABEL.

This bulletin contains new or supplemental instructions for use of this product which do not appear on the EPA-registered package label. Follow the instructions carefully.

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



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