



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

April 12, 2018

Connie Hickman  
US Product Registration Manager  
E.I. du Pont de Nemours and Company  
DuPont Crop Protection  
Chestnut Run Plaza (720/2E5)  
974 Centre Road  
Wilmington, DE 19805

Subject: PRIA Label Amendment – New Use on Enlist Corn  
Product Names: DuPont Quizalofop P-Ethyl Technical Herbicide  
DuPont Assure II Herbicide  
EPA Registration Numbers: 352-541 & 352-542  
Application Date: December 28, 2010  
Decision Number: 443799 & 443800

Dear Ms. Hickman:

The application referred to above, submitted under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable under FIFRA section 3(c)(5) with the following terms and conditions:

1. You must submit and/or cite all data required for registration/reregistration/registration review of your product when the Agency requires all registrants of similar products to submit such data.
2. The new use of quizalofop-P-ethyl on field corn containing the herbicide-tolerant Enlist trait will **automatically expire 5 years from the date of this registration letter**, unless the Agency amends this condition otherwise.
3. You must develop and follow an Herbicide Resistance Management Plan as described in Appendix A.
4. You must submit annual reports to the Agency by January 15<sup>th</sup> of each year beginning in 2019, as outlined in Appendix A Section D, "Reporting Component," until the Agency amends this condition otherwise.

A stamped copy of the labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it

bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company’s website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact Mindy Ondish by phone at 703-605-0723, or via email at [ondish.mindy@epa.gov](mailto:ondish.mindy@epa.gov).

Sincerely,

A handwritten signature in blue ink that reads "Dan Kenny" with a stylized flourish at the end.

Dan Kenny, Chief  
Herbicide Branch  
Registration Division (7505P)  
Office of Pesticide Programs

Enclosure

Appendix A – Herbicide Resistance Management Plan and Reporting Requirements for Use of Quizalofop-P-ethyl on Enlist Corn

## APPENDIX A

### **Herbicide Resistance Management Plan and Reporting Requirements for Use of Quizalofop-P-ethyl on Enlist Corn**

E.I du Pont de Nemours and Company/DuPont Crop Protection (“DuPont”) must comply with the following:

#### A. Educational Component

1. Develop and implement an education program for users of this product that identifies appropriate best management practices (BMPs) to avoid and control weed resistance, and convey to users the importance of following BMPs.

The following are examples of BMPs:

#### Crop selection and cultural practices

- Understand the biology of the weeds present.
- Use a diversified approach towards weed management focused on preventing weed-seed production and reducing the number of weed seeds in the soil seed-bank.
- Emphasize cultural practices that suppress weeds by using crop competitiveness.
- Plant into weed-free fields, keep fields as weed-free as possible, and note areas where weeds were a problem in prior seasons.
- Incorporate additional weed-control practices whenever possible, such as mechanical cultivation, biological management practices, crop rotation, and weed-free crop seeds, as part of an integrated weed-control program.
- Do not allow weed escapes to produce seeds, roots, or tubers.
- Manage weed seed at harvest and post-harvest to prevent a buildup of the weed seed-bank.
- Prevent field-to-field and within-field movement of weed seed or vegetative propagules.
- Thoroughly clean plant residues from equipment before leaving fields.
- Prevent an influx of weeds into the field by managing field borders.
- Fields should be scouted before application to ensure herbicide and application rates will be appropriate for the weed species and weed sizes present.
- Fields should be scouted after application to confirm herbicide effectiveness and to detect weed escapes.
- If resistance is suspected, treat weed escapes with a different mechanism-of-action herbicide or use non-chemical methods to remove weed escapes.

#### Herbicide selection

- Use a broad spectrum soil-applied herbicide with a mechanism of action that differs from this product as a foundation in a weed control program.

- A broad-spectrum weed-control program should consider all of the weeds present in the field. Weeds should be identified through scouting and field history.
  - Difficult-to-control weeds may require sequential applications of herbicides with alternative mechanisms of action.
  - Fields with difficult-to-control weeds should be rotated to crops that allow the use of herbicides with alternative mechanisms of action.
  - Apply full rates of this herbicide for the most difficult to control weeds in the field. Applications should be made when weeds are at the correct size to minimize weed escapes.
  - Do not use more than two applications of this herbicide or any herbicide with the same mechanism of action within a single growing season unless mixed with another mechanism of action herbicide with overlapping spectrum for the difficult to control weeds.
  - Report any incidence of non-performance of this product against a particular weed species to DuPont or its representatives.
2. Include at least one written communication to users of this product each year regarding herbicide-resistance management.
  3. Provide a copy of the education materials to EPA upon request.

*B. Field Detection and Remediation Components*

1. If any user informs DuPont or its representatives of a lack of herbicide efficacy in a weed species listed on product labeling, then DuPont or its representatives must make an effort to evaluate the field for suspected resistance to this product by applying the criteria below, as set forth in Norsworthy, *et al.*, “Reducing the Risks of Herbicide Resistance: Best Management Practices and Recommendations” Weed Science 2012 Special Issue: 31-62;

*Criteria for Determining Suspected Herbicide Resistance*

- 1) *Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; and/or*
  - 2) *A spreading patch of non-controlled plants of a particular weed species; and/or*
  - 3) *Surviving plants mixed with controlled individuals of the same species.*
2. If one or more of the above criteria are met, then:
    - a. Provide the user with specific information and recommendations to control and contain suspect weeds, including re-treatment and/or other non-chemical controls, as appropriate. If requested by the user, DuPont will become actively involved in implementation of weed control measures.
    - b. Request, at the time of the initial determination that one or more of the above criteria are met and prior to any application of alternative control practices, that the user

- provide access to the relevant field(s) to collect specimens of the suspect weeds (potted specimens or seeds) for potential further evaluation in the greenhouse or laboratory, and to collect such specimens if possible (or, alternatively, request that the user provide such specimens to DuPont at DuPont's expense).
- c. Conduct greenhouse or laboratory studies to confirm resistance as soon as practicable following sample collection, if technically feasible.
  - d. To the extent possible, contact or visit the user in an appropriate timeframe after implementation of the additional weed control measures in order to evaluate success of such measures.
  - e. If the additional weed control measures were not successful in controlling the suspected-resistant weeds, then:
    - i. Work with the user to determine the reason(s) why the additional control measures were unsuccessful;
    - ii. Offer to provide technical expertise on how to control and contain the suspected-resistant weeds, including re-treatment and/or other non-chemical controls, as appropriate; and
    - iii. Report annually the inability to control the suspected-resistant weeds to relevant stakeholders.
3. Keep records of all field evaluations for suspected resistance for a minimum of three years, and provide a copy to EPA upon request.

C. Evaluation Component

1. Conduct annual surveys to determine whether users have encountered any perceived issues with non-performance or lack of efficacy of this product, and if so, how users have responded. This survey must be based on a statistically-representative sample of users. The sample size and geographical resolution should be adequate to allow analysis of responses within regions, between regions, and across the United States.
2. Analyze the survey results each year, and modify the following for the upcoming growing season, as appropriate:
  - a. Efforts aimed at achieving compliance with BMPs;
  - b. Responses to incidents of suspected weed resistance and confirmed weed resistance; and

- c. The education program. At the initiative of either EPA or DuPont, both parties shall consult about possible modifications to the education program.

*D. Reporting Component*

1. Submit reports to EPA by January 15<sup>th</sup> of each year, beginning in 2019, with information on:
  - a. Annual sales of this product by state;
  - b. Annual sales of corn seed containing Enlist trait by state;
  - c. The current education program. The first report shall include the current education program and its associated materials. Subsequent annual reports shall include updates of any aspect of the education program and associated materials that have materially changed since submission of the previous annual report;
  - d. Summary of efforts aimed at achieving compliance with the BMPs;
  - e. Investigation and remediation of cases on suspected-resistant weeds. Summary of determinations as to whether any reported lack of herbicide efficacy was due to suspected-resistance, any follow-up actions taken, and if available, the final outcome (e.g., evaluation of success of additional weed control measures) regarding each case of suspected-resistance. The annual report shall list the cases by county and state;
  - f. Summary of the status of any laboratory and greenhouse testing performed by or at the direction of DuPont, in response to cases of suspected-resistance, performed in the previous year. Data pertaining to such testing need not be included in the annual reports, but such data must be made available to EPA upon request; and
  - g. The annual survey, including whether users are implementing herbicide resistance BMPs, and a summary of DuPont's annual review and any modifications based on the survey results.

Following submission of the annual report, DuPont shall meet with EPA at EPA's request to evaluate and consider the information contained in the report.



# DuPont™ Assure® II

HERBICIDE

GROUP

1

HERBICIDE

### Emulsifiable Concentrate

#### Active Ingredient

By Weight

Quizalofop-P-ethyl

Ethyl(R)-2-[4-(6-chloroquinoxalin-2-yloxy)- phenoxy]propionate

10.3%\*

#### Other Ingredients

89.7%

TOTAL

100.0%

Contains petroleum distillates.

\* Equivalent to 0.88 lb ai per gal

EPA Reg. No. 352-541

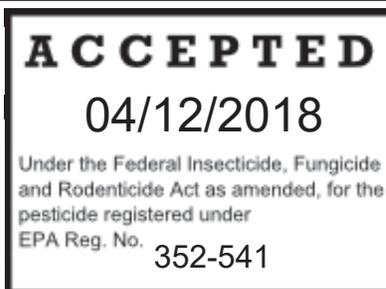
#### Nonrefillable Container

Net: \_\_\_\_\_

OR

#### Refillable Container

Net: \_\_\_\_\_



EPA Est. No. \_\_\_\_\_

KEEP OUT OF REACH OF CHILDREN

## DANGER - PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

### FIRST AID

**IF IN EYES:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

**IF SWALLOWED:** Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

**IF INHALED:** Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage. Contains petroleum distillate. Vomiting may cause aspiration pneumonia.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-441-3637 for emergency medical treatment information.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER! Causes irreversible eye damage. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid contact with eyes, skin, or clothing. Avoid breathing vapor or spray mist.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

##### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants.
- Chemical-resistant gloves made of barrier laminate or Viton ≥14 mils.
- Shoes plus socks.
- Protective eyewear.

Discard clothing or other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

## ENGINEERING CONTROL STATEMENTS

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR part 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

## USER SAFETY RECOMMENDATIONS

**USERS SHOULD:** Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing .

## ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and invertebrates. Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

This product may contaminate water through drift of spray in wind. This product has a potential for runoff for several months or more after application. Poorly drained soils and soils with shallow water tables are more prone to produce runoff that contains this product. A level, well maintained vegetative buffer strip between areas to which the product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours. Sound erosion practices will reduce this product's contribution to surface water contamination.

## PHYSICAL AND CHEMICAL HAZARDS

Combustible. Keep away from heat, sparks, and open flames. Keep container closed.

## 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 must be used only in accordance with the directions on this label, in separately issued labeling or exemptions under FIFRA (Supplemental Labels, Special Local Need Registrations, FIFRA Section 18 exemptions, FIFRA 2(ee) Bulletins), or as otherwise permitted by FIFRA. Always read the entire label, including the Limitation of Warranty and Liability.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment(PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls.
- Chemical-resistant gloves, made of barrier laminate or Viton ≥14 mils.
- Shoes plus socks.
- Protective eyewear.

## NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Weed control in “Non-Agricultural Uses” is not within the scope of WPS. Keep unprotected persons out of treated areas until sprays have dried.

## ENVIRONMENTAL CONDITIONS AND BIOLOGICAL ACTIVITY

DuPont™ ASSURE® II is a systemic herbicide that is rapidly absorbed by treated foliage and translocated to the roots and other growing points of the plant. When affected, younger plant tissues become chlorotic/necrotic and eventually die, leaving treated plants stunted and noncompetitive. In general, these symptoms are first observed within 7 to 14 days after application depending on the grass species treated and the environmental conditions.

The degree of control and duration of the effect of ASSURE® II depend upon the rate used, weed spectrum, weed size and variability, growing conditions at and following treatment, soil moisture, precipitation, tank mixtures, and spray adjuvant used.

Conditions conducive to healthy, actively growing plants optimize the performance of ASSURE® II. Unacceptable control may occur if ASSURE® II is applied to grasses stressed from :

- abnormal weather (excessive heat or cold, or widely fluctuating temperatures),
- hail damage,
- drought,
- water saturated soils,
- mechanical injury, or
- prior herbicide injury.

Grasses under these conditions are often less sensitive to herbicide activity. Delay application until the stress passes and weeds and crop resume growth.

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.

ASSURE® II is rainfast 1 hour after application.

## APPLICATION INFORMATION

### USE RESTRICTIONS

- Do not feed forage, hay, or straw from treated areas to livestock unless stated otherwise under the specific crop use directions.
- Do not apply ASSURE® II through any type of irrigation equipment.
- Do not contaminate any body of water.
- Do not use on lawns, walks, driveways, tennis courts, or similar areas.

### IMPORTANT PRECAUTIONS

Injury to or loss of desirable trees, vegetation, or adjacent sensitive crops may result from failure to observe the following:

- Prevent drift of spray to desirable plants (refer to SPRAY DRIFT MANAGEMENT section of this label).
- Take all necessary precautions to avoid all direct or indirect contact (such as spray drift) with non-target plants or areas. Most grass crops, including wheat, barley, rye, oats, sorghum, rice, and corn are highly sensitive to ASSURE® II.
- Carefully observe all sprayer cleanup instructions both prior to and after using this product, as spray tank residue may damage crops other than those included in the crop rotation section.

## WEED RESISTANCE MANAGEMENT

ASSURE® II herbicide, which contains the active ingredient quizalofop-p-ethyl, is a Group 1 herbicide based on the mode of action classification system of the Weed Science Society of America. Quizalofop-p-ethyl is in the class of herbicides known as aryloxyphenoxypropionates (FOPs) within the Group 1 herbicides that inhibit the enzyme acetyl-CoA carboxylase (ACCase) in weeds.

Proactively implementing diversified weed control strategies to minimize selection for weed populations resistant to one or more herbicides is a best practice. A diversified weed management program may include the use of multiple herbicides with different sites of action and overlapping weed spectrum with or without tillage operations and/or other cultural practices. Research has demonstrated that using the labeled rate and directions for use is important to delay the selection for resistance.

The continued effectiveness of this product depends on the successful implementation of a weed resistance management program.

To aid in the prevention of developing weeds resistant to this product, users should:

- Scout fields before application to ensure herbicides and rates will be appropriate for the weed species and weed sizes present.

- Start with a clean field, using either a burndown herbicide application or tillage.
- Control weeds early when they are relatively small (less than 4 inches).
- Apply full rates of DuPont™ ASSURE® II herbicide for the most difficult to control weeds in the field at the specified time (correct weed size) to minimize weed escapes.
- Scout fields after application to detect weed escapes or shifts in control of weed species.
- Control weed escapes before they reproduce by seed or proliferate vegetatively.
- Report any incidence of non-performance of this product against a particular weed to your DuPont representative, local retailer, or county extension agent.
- Contact your DuPont representative, crop advisor, or extension agent to find out if suspected resistant weeds to this MOA have been found in your region. If resistant biotypes of target weeds have been reported, use the application rates of this product specified for your local conditions. Tank mix products so that there are multiple effective sites of actions for each target weed.
- If resistance is suspected, treat weed escapes with an herbicide having a site of action other than Group 1 and/or use nonchemical methods to remove escapes, as practical, with the goal of preventing further seed production.
- Suspected herbicide-resistant weeds may be identified by these indicators:
  - Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
  - A spreading patch of non-controlled plants of a particular weed species; and
  - Surviving plants mixed with controlled individuals of the same species

Additionally, users should follow as many of the following herbicide resistance management practices as is practical:

- Use a broad spectrum soil-applied herbicide with other sites of action as a foundation in a weed control program.
- Utilize sequential applications of herbicides with alternative sites of action.
- Rotate the use of this product with non-Group 1 herbicides.
- Avoid making more than two applications of ASSURE® II herbicide and any other Group 1 herbicides within a single growing season unless mixed with an herbicide with a different site of action with an overlapping spectrum for the difficult-to-control weeds.
- Incorporate non-chemical weed control practices, such as mechanical cultivation, crop rotation, cover crops and weed-free crop seeds, as part of an integrated weed control program.
- Use good agronomic principles that enhance crop development and crop competitiveness.
- Thoroughly clean plant residues from equipment before leaving fields suspected to contain resistant weeds.
- Manage weeds in and around fields, during and after harvest to reduce weed seed production.

## **INTEGRATED PEST MANAGEMENT**

This product may be used as part of an Integrated Pest Management (IPM) program that can include biological, cultural, and genetic practices aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop systems in your area.

## **TANK MIXES**

It is the pesticide applicator's responsibility to ensure that all products are registered for the intended use. Applicators must read and follow the most restrictive directions for use, precautions, and limitations of each product in the tank mixture.

Refer to the labels of all tank mix products for information regarding use information (such as rates, timing, application information, and sprayer cleanup) and product precautions and restrictions (especially adjuvants - ASSURE® II requires the use of an adjuvant). The most restrictive provisions apply. If those instructions conflict with this label, do not tank mix the herbicide with ASSURE® II.

DuPont also recommends that you first consult your state experiment station, university, or extension agent, Agricultural dealer, or DuPont representative as to the potential for any adverse interactions (resulting in unacceptable grass control and/or crop injury) before using new herbicide, insecticide and fungicide mixtures. If no information is available, limit the initial use of ASSURE® II and the new herbicide, insecticide or fungicide product to a small area.

## Tank Mix Compatibility Testing

Always conduct a jar test to evaluate physical compatibility of DuPont™ ASSURE® II and other pesticides before applying a particular mixture to listed crops for the first time. Use a clear glass quart jar with lid and mix the tank mix ingredients in their relative proportions. Invert the jar containing the mixture several times and observe the mixture for approximately 1/2 hour. If the mixture balls-up, forms flakes, sludges, gels, oily film or layers, or other precipitates, it is not compatible.

### Application With Insecticides and Fungicides

ASSURE® II may be tank mixed with postemergence insecticides registered for use in the specific crop (such as DuPont™ LANNATE® insecticide, LANNATE® LV insecticide, DuPont™ VYDATE® C-LV insecticide, and VYDATE® L insecticide).

ASSURE® II may be tank mixed with postemergence fungicides and bactericides registered for use in the specific crop.

### Application With Broadleaf Herbicides

For best results, apply ASSURE® II alone or in sequence with a broadleaf herbicide(s). Under arid or stressful environmental conditions, tank mixtures with broadleaf herbicides may show a small reduction in control of some grass species. Activity of the postemergence broadleaf herbicide in the tank mixture is not affected.

### Split Applications with Postemergence Broadleaf Herbicides

Applying ASSURE® II immediately prior to or following an application of a postemergence broadleaf herbicide may reduce control of some grasses. For best results, follow these directions when making split applications:

- Apply postemergence broadleaf herbicides at least 24 hours after applying ASSURE® II.
- Apply ASSURE® II when grass begins to develop new leaves (generally 7 days after the postemergence broadleaf herbicide application) in fields treated with a postemergence broadleaf herbicide.

## SPOT/SMALL AREA SPRAY INSTRUCTIONS

To spot treat small areas of annuals (i.e., volunteer corn) or perennials (i.e., rhizome johnsongrass)

- Use a 0.375% v/v solution of ASSURE® II and water.

### SPRAY VOLUMES FOR SMALL AREAS

Spray Volume (gallon)	ASSURE® II	+	Crop Oil	OR	Nonionic
	(fluid ounces product)		Concentrate (fluid ounces)		Surfactant (fluid ounces)
1	0.5 (1 tbsp)		1.25 (2.5 tbsp)		0.3 (2 tsp)
25	12 (3/4 pt)		32 (1 qt)		8 (1 cup)
50	24 (1.5 pt)		64 (2 qt)		16 (1 pt)
100	48 (3 pt)		128 (1 gal)		32 (1 qt)

Do not spot treat grasses using a tank mix of ASSURE® II and broadleaf herbicides.

- Include a nonphytotoxic crop oil concentrate at 1 gallon per 100 gallons of spray solution (1% v/v) or a nonionic surfactant at 1 qt per 100 gallons of spray solution (0.25% v/v).
- Treat plants on a spray-to-wet basis to ensure good coverage.
- Do not treat >10% of the total treated area as spot/small area treatment. Do not exceed the maximum specified rate/acre/season for the crop that is going to be planted when additional applications are made as spot treatment or small area treatment.

### Cultivation

A timely cultivation may be necessary to control suppressed weeds, weeds that were beyond the maximum size at application, or weeds that emerge after an application of ASSURE® II.

Cultivation up to 7 days before the postemergence application of ASSURE® II may decrease weed control by pruning weed roots, placing the weeds under stress, or covering the weeds with soil and preventing coverage by ASSURE® II.

To allow ASSURE® II to fully control treated weeds, wait at least 7 days after application to cultivate.

Optimum timing for cultivation is 7 - 14 days after a postemergence application of ASSURE® II.

## **Agricultural Uses**

DuPont™ ASSURE® II herbicide is a selective herbicide that controls annual and perennial grasses in canola, crambe, cotton, crops grown for seed, eucalyptus, dry beans (including Chickpea), dry and succulent peas, flax, hybrid poplar plantings, lentils, mint (spearmint and peppermint), pineapple, rapeseed subgroup 20A (includes borage, canola, crambe, Gold of Pleasure [camelina], cuphea, echium, Hare's ear mustard, oil radish, poppy seed, sesame, sweet rocket, cultivars, varieties, and/or hybrids of these), ryegrass grown for seed, snap beans, INZEN™ A II grain sorghum, soybeans, sugarbeets, sunflowers, Enlist™ field corn and noncrop areas. ASSURE® II is also registered for control of annual and perennial grasses in alfalfa, onion, carrot, garlic, Swiss chard, spinach, radish, Chinese cabbage, and red beets grown specifically under contract as non food/non feed crops for seed production only.

ASSURE® II does not control sedges or broadleaf weeds. Applied at specified rates and timings, ASSURE® II controls the grasses listed in the “Weeds Controlled and Rate Selection” chart. ASSURE® II will control emerged grasses. Subsequent flushes of grasses require additional treatment. See "Use Restrictions" portion of the label before using. Follow all use directions and restrictions listed for the specific crop.

## **Non-Agricultural Uses**

### **Non-Crop Areas**

ASSURE® II is registered for postemergence control of certain grasses on noncrop sites such as fence rows, roadsides, equipment storage areas, and other similar areas.

Apply by ground application equipment only. Do not apply by air.

For paved areas, apply as spot/small area treatments only (see Spot/Small Area Spray instructions section).

Make a single application of ASSURE® II at a rate of 12 to 16 fluid ounces (0.083 - 0.11 lb ai) per acre to actively growing grasses.

### **Non-Crop Areas - to aid in establishment of Wildflowers**

- Since ASSURE® II controls many grasses but not most broadleaf plants, it may be used to enhance establishment and growth of certain broadleaf plants on non-crop sites (that is, plants identified as “wildflowers” such as indian blanket, cone flowers, bachelor button, dwarf cornflower, coreopsis, white yarrow, oxeye daisy, dames-rocket, blue flax, eveningprimrose, blackeyed-susan, marigolds, impatiens, bluebonnet, indian paintbrush, verbena, gaillardia, chrysanthemum, catchfly and scarlet pimpernel).
- Make a single application of ASSURE® II at a rate of 5 to 12 fluid ounces (0.034 - 0.083 lb ai) per acre. Refer to the Weeds Controlled and Rate Selection table for specific application rates. Do not apply more than 12 fluid ounces (0.083 lb ai) per acre per year.

## **Application Timing**

### **Crop and Non-Crop Uses**

Apply ASSURE® II to young, actively growing grasses according to the rate chart that follows. If a field is to be irrigated, apply ASSURE® II after the irrigation. Applications made to grasses that are larger than the sizes listed in the rate charts or to grasses under stress may result in unsatisfactory control.

## **Sequential Applications**

Do not exceed the maximum use rates listed under the directions for each specific crop.

### **Annual Grasses**

In the event of a subsequent flush of grass, or regrowth of previously treated grass occurs, a second application of ASSURE® II may be applied unless stated otherwise. Select the appropriate rate for the grassy weed from the “Weeds Controlled - Rate selection” chart.

### **Perennial Grasses**

If perennial grasses regrow, reapply ASSURE® II at 6-7 fluid ounces of product per acre, unless stated otherwise. Do not exceed the maximum use rates listed under each crop.

## **Spray Adjuvants**

Applications of ASSURE® II must include either a crop oil concentrate or a nonionic surfactant. Consult local DuPont fact sheets, technical bulletins, and service policies prior to using other adjuvant systems. If another herbicide is tank mixed with ASSURE® II to increase the weed spectrum, select adjuvants authorized for use with both products. Products must contain only EPA-exempt ingredients.

### **Petroleum Crop Oil Concentrate (COC)**

- Petroleum-based crop oil concentrates are the preferred adjuvant system in arid areas.

- Apply petroleum-based crop oil concentrate at 1% v/v (1 gallon per 100 gallons spray solution) or 2% under arid conditions. Note – In soybeans and sunflowers, up to 2% v/v may be used based on local recommendations.
- Oil adjuvants must contain at least 80% high quality, petroleum (mineral) or modified vegetable seed oil with at least 15% surfactant emulsifiers.
- For aerial applications apply 0.5% v/v (2 quarts product per 100 gallons spray solution).

***Nonionic Surfactant (NIS)***

- Apply at 0.25 % v/v (1 quart of product per 100 gallons spray solution).
- Surfactant products must contain at least 60% nonionic surfactant with a hydrophilic/lipophilic balance (HLB) greater than 12.

***Ammonium Nitrogen Fertilizer***

- An ammonium nitrogen fertilizer may be added to the spray mixture, in addition to crop oil concentrate or nonionic surfactant, but is not required to optimize performance of this product.
- Use 2 quart/acre of a high-quality urea ammonium nitrate (UAN), such as 28%N or 32%N, or 2 lb/acre of a spray-grade ammonium sulfate (AMS). Use 4 quart/acre UAN or 4 pound/acre AMS under arid conditions.
- Do not use liquid nitrogen fertilizer as the total carrier solution.

***Special Adjuvant Types***

- Combination adjuvant products may be used at doses that provide the required amount of NIS, COC, MSO and/or ammonium nitrogen fertilizer. Consult product literature for use rates and restrictions.
- In addition to the adjuvants specified above, other adjuvant types may be used if they provide the same functionality and have been evaluated and approved by DuPont Product Management.

## WEEDS CONTROLLED AND RATE SELECTION

	Size at Application (in)	ASSURE® II Applied Alone (fluid ounces product/A)	DuPont™ ASSURE® II* Tank Mixed with Broadleaf Herbicide (fluid ounces product/A)	
<b>Annual Grasses**</b>				
Volunteer Corn ( <i>Zea mays</i> )***	6-30	5 - 8	4 - 8	
Foxtail, Giant ( <i>Setaria faberi</i> )	2-4 (pretiller)		5	
Johnsongrass, Seedling ( <i>Sorghum halepense</i> )	2-8		7	
Shattercane ( <i>Sorghum bicolor</i> )	6-12		7 - 8	8
Wild Proso Millet ( <i>Panicum miliaceum</i> )	2-6			
Crowfootgrass ( <i>Dactyloctenium aegyptium</i> )	2-6			
Fall Panicum ( <i>Panicum dichotomiflorum</i> )	2-6			
Field Sandbur ( <i>Cenchrus incertus</i> )	2-6			
Foxtail, Bristly ( <i>Setaria verticillata</i> )	2-4			
Foxtail, Giant ( <i>Setaria faberi</i> )	2-8			
Foxtail, Green ( <i>Setaria viridis</i> )	2-4			
Foxtail, Yellow ( <i>Setaria pumila</i> )	2-4			
Goosegrass ( <i>Eleusine indica</i> )	2-6‡			
Itchgrass ( <i>Rottboellia exaltata</i> )	2-8			
Sprangletop ( <i>Leptochloa filiformis</i> )	2-6			
Volunteer Barley ( <i>Hordeum vulgare</i> )	2-6			
Volunteer Oats ( <i>Avena sativa</i> )	2-6			
Volunteer Rye ( <i>Secale cereale</i> )	2-6			
Volunteer Wheat ( <i>Triticum aestivum</i> )	2-6			
Wild Oat ( <i>Avena fatua</i> )	2-6			
Witchgrass ( <i>Panicum capillare</i> )	2-6			
Barnyardgrass ( <i>Echinochloa crus-galli</i> )	2-6	8 - 10	Split†	
Crabgrass, Large ( <i>Digitaria sanguinalis</i> )	2-6‡			
Crabgrass, Smooth ( <i>Digitaria ischaemum</i> )	2-6‡			
Junglerice ( <i>Echinochloa colonum</i> )	2-6			
Texas Panicum ( <i>Panicum texanum</i> )††	2-4	9 - 10	Split†	
Red Rice ( <i>Oryza sativa</i> )	1-4			
Woolly Cupgrass ( <i>Eriochloa villosa</i> )	2-4§			
Broadleaf Signalgrass ( <i>Brachiaria platyphylla</i> )	2-6	10	Split	
Downy brome ( <i>Bromus tectorum</i> )	2-6	10-12	12	
Italian ryegrass ( <i>Lolium multiflorum</i> )	2-6			
Jointed goatgrass ( <i>Aegilops cylindrica</i> )	2-6			
Windgrass ( <i>Bromus mollis</i> )	2-6			
<b>Perennial Grasses**</b>				
Wirestem Muhly ( <i>Muhlenbergia frondosa</i> )	4-8	8 - 10	Split†	
Bermudagrass ( <i>Cynodon dactylon</i> )	3" tall	10 - 12	Split†	
	(or up to 6" runners)			
Johnsongrass, Rhizome ( <i>Sorghum halepense</i> )	10-24		10	
Quackgrass ( <i>Agropyron repens</i> )	6-10	Split†		

\* See "Applications With Broadleaf Herbicides".

\*\* For annual and perennial grasses, up to 12 fluid ounces per acre may be applied, based on local recommendations. **Under arid conditions apply at the higher use rate.**

\*\*\* Control includes "Roundup" Ready (glyphosate resistant), Liberty Link, (glufosinate) and IMI-Corn. Apply 4 fluid ounces/acre ASSURE® II for up to 12 inch tall corn. Apply 5 fluid ounces/acre ASSURE® II for 12-18 inch volunteer corn; use 8 oz ASSURE® II for 18-30 inch volunteer corn.

† Split = Split Application. May not be controlled adequately using a tank mix with broadleaf herbicides. For best results, alternate applications of ASSURE® II with a broadleaf herbicide, ensuring that ASSURE® II is applied either 24 hours before or 7 days after the broadleaf herbicide.

‡ 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.

†† **In Texas and other areas of the arid west, apply at 10 fluid ounces per acre for control of Texas panicum, use of lower rates may result in unsatisfactory control.**

## **Specific Weed Problems**

### ***Volunteer Glyphosate-Resistant Corn***

DuPont™ ASSURE® II may be used for control of volunteer glyphosate resistant corn in other glyphosate resistant crops. For control of other weeds, it may be tank mixed with glyphosate as follows:

- Apply ASSURE® II at a rate of 4 fluid ounces/acre for up to 12 inch volunteer corn, 5 fluid ounces for 12-18 inch corn and 8 fluid ounces ASSURE® II for 18-30 inch corn, tank mixed with a labeled rate of glyphosate.
- If the glyphosate formulation does not include a built-in adjuvant system, a nonionic surfactant or petroleum based crop oil concentrate must be included, per directions on this label.
- If the glyphosate formulation contains a built-in adjuvant system, additional adjuvant is still required. Add nonionic surfactant at a rate of 0.125% v/v (1 pt per 100 gal spray solution). Under arid conditions consider adding a petroleum based crop oil concentrate at 1% v/v (1 gallon per 100 gallons spray solution) instead of a nonionic surfactant.

### ***Rhizome Johnsongrass - South East States***

For control of rhizome johnsongrass in the states of Alabama, Arkansas, Florida, Georgia, Louisiana, Maryland, Mississippi, Tennessee, Virginia, and West Virginia, a reduced rate of ASSURE® II may be used if applied in a sequential application program as follows:

1. Apply ASSURE® II at 5 fluid ounces per acre when johnsongrass is 10"-24" tall.
2. Apply ASSURE® II a second time at 5 fluid ounces per acre when johnsongrass regrowth is 6"-10" tall.

Do not apply ASSURE® II in a tank mix with postemergence broadleaf herbicides when using this reduced rate, sequential application program. Do not exceed the maximum specified rate/acre/season for the crop that is going to be planted when additional applications are made to control rhizome johnsongrass.

### ***Rhizome Johnsongrass***

ASSURE® II herbicide will provide control of weeds in Fallow, including emerged Rhizome and Seedling Johnsongrass. Note that, when applied at specified rates and timings to control grass weeds, ASSURE® II herbicide will provide control of emerged grasses only. Subsequent flushes of grasses require additional treatment.

Apply ASSURE® II herbicide for control of Seedling and Rhizome Johnsongrass at the range indicated.

- Apply ASSURE® II at 8 ounces per acre when seedling johnsongrass is 2" - 6" tall.
- Apply ASSURE® II at 12 ounces per acre when rhizome johnsongrass is 12"-16" tall.
- If rhizome Johnsongrass regrows, reapply ASSURE® II at 8 ounces per acre. Application timing should be when Johnsongrass regrowth is 6"-10" in height.

Tank mixes of ASSURE® II with postemergence broadleaf herbicides may result in reduced grass control. If grass control is reduced, an additional application of ASSURE® II may be required after grass plants begin to develop new leaves.

## **Specific Crop Use Directions and Restrictions**

### **Cotton**

- Do not apply ASSURE® II within 80 days of harvest.
- The maximum use rate of ASSURE® II is 18 fluid ounces (0.124 lb ai) per acre per crop season.
- Do not make more than 2 applications per acre per season.
- Application intervals must be greater than 7 days apart to allow regrowth to occur.

### **Dry and Succulent Peas**

- Do not apply ASSURE® II on dry peas within 60 days of harvest.
- Do not apply ASSURE® II on succulent peas within 30 days of harvest.
- The maximum use rate of ASSURE® II on dry and succulent peas is 14 fluid ounces (0.096 lb ai) per acre per crop season.
- Do not make more than 2 applications per acre per season.
- Application intervals must be greater than 7 days apart to allow regrowth to occur.

### **Dry Beans, including Chickpea**

- Do not apply ASSURE® II within 30 days of harvest.
- The maximum use rate of ASSURE® II is 24 fluid ounces (0.165 lb ai) per acre per crop season.
- Do not make more than 2 applications per acre per season.
- Application intervals must be greater than 7 days apart to allow regrowth to occur.

## **Dry Beans, Dry and Succulent Peas in ID, MT, OR and WA**

DuPont™ ASSURE® II herbicide can be tank mixed with "Basagran" herbicide for selective postemergence weed control of annual and perennial grasses and broadleaf weeds in dry beans, dry peas and succulent peas.

When tank mixing ASSURE® II with "Basagran", annual grass antagonism can be minimized by increasing the specified use rate of ASSURE® II by 2 ounces per acre. Refer to the specific crop use directions and restrictions for maximum use rates.

ASSURE® II requires the use of a spray adjuvant (surfactant, crop oils, ect.). Refer to the "Basagran" label for application information and restrictions. The most restrictive provisions on either label will apply. Do not use the tank mix if any restrictions on the "Basagran" label conflict with instructions on the ASSURE® II label. Do not tank mix ASSURE® II and adjuvants with "Basagran" when temperatures exceed 80 degree F, as excessive leaf burn may occur.

### **Eucalyptus Plantations**

ASSURE® II herbicide is registered for control of annual and perennial grasses in Eucalyptus plantations in the state of Hawaii.

- Apply ASSURE® II as a broadcast spray at a rate of 15 to 30 fluid ounces of product per acre per application in Eucalyptus fields.
- Apply by ground application equipment only. Use a tractor sprayer properly calibrated to a constant speed and rate of delivery. Do not apply by air.
- Do not make more than 4 applications per year.
- The maximum use rate is 60 fluid ounces (0.41 lb ai) of ASSURE® II herbicide per acre per crop year in Eucalyptus.
- Application intervals must be greater than 7 days apart to allow regrowth to occur.

#### **Weeds Controlled**

Para grass (*Panicum muticum*)  
Crabgrass (*Digitaria* spp.)

#### **Weeds Partially Controlled**

Torpedograss (*Panicum repens*)

### **Flax**

- Do not apply ASSURE® II within 70 days of harvest.
- The maximum use rate of ASSURE® II is 24 fluid ounces (0.165 lb ai) per acre per crop season.
- Do not make more than 2 applications per acre per season.
- Application intervals must be greater than 7 days apart to allow regrowth to occur.

### **Hybrid Poplar Plantings**

ASSURE® II herbicide is registered for the control of grasses to aid in the establishment of hybrid poplar plantings in the states of Maine and Minnesota. ASSURE® II may be applied over hybrid poplar following planting.

- The maximum use rate of ASSURE® II is 10 fluid ounces (0.064 lb ai) per acre per crop season.
- Apply at the rate of 5 to 10 fluid ounces of product per acre to be sprayed. Refer to the table for the appropriate size or growth stage of the grasses to be controlled.
- Do not make more than 2 applications per acre per season.
- Application intervals must be greater than 7 days apart to allow regrowth to occur.
- Apply by ground application equipment only. Do not apply by air.

### **Lentils**

- Do not apply ASSURE® II within 60 days of harvest.
- The maximum use rate of ASSURE® II is 14 fluid ounces (0.096 lb ai) per acre per crop season.
- Do not make more than 2 applications per acre per season.
- Application intervals must be greater than 7 days apart to allow regrowth to occur.

### **Mint (Spearmint and Peppermint)**

- Do not apply ASSURE® II within 30 days of harvest.
- The maximum use rate of ASSURE® II is 24 fluid ounces (0.165 lb ai) per acre per crop season.
- Do not apply more than 2 applications per acre per season.
- Application intervals must be greater than 7 days apart to allow regrowth to occur.

## Non Food/Non Feed Crops Grown Under Contract For Seed Production

DuPont™ ASSURE® II herbicide is registered for control of annual and perennial grasses in alfalfa, onion, carrot, garlic, Swiss chard, spinach, radish, Chinese cabbage, and red beets grown specifically under contract as non food/non feed crops for seed production only in the states Idaho, Montana, Oregon, Washington and Wyoming.

Applied at specified rates and timings, ASSURE® II herbicide will control emerged grasses. Subsequent flushes of grasses require additional treatment.

Always include a nonphytotoxic petroleum based crop oil concentrate at 1% v/v (4 quarts/100 gallons) or a nonionic surfactant at 0.25% v/v (1 quart/100 gallons). Crop oil concentrate is the preferred adjuvant in arid areas.

- Application of ASSURE® II for seed propagation only as a nonfood/nonfeed use. **No portion of the treated plants may be used for human or animal consumption and cannot be used or processed for food or feed.**
- Seed from treated plants must only be used for breeding purposes or seed production. Seed from ASSURE® II treated plants must be labeled as follows "Do not use for feed, food or oil purposes."
- Grazing of treated crop is prohibited.
- 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.
- All seed crops treated with ASSURE® II herbicide are to be tagged at the processing facility, "Not for Human or Animal Consumption". It shall be the growers' responsibility to notify the processing facility of any seed crop that has been treated with ASSURE® II.
- Apply by ground application equipment only. Do not apply by air.
- Do not apply ASSURE® II within 14 days of anticipated bloom.
- The maximum use rate of ASSURE® II is 25 fluid ounces (0.17 lb ai) per acre per crop season.
- Do not make more than 2 applications per acre per season.
- Application intervals must be greater than 7 days apart to allow regrowth to occur.

### Spray Additives

Always include a nonphytotoxic petroleum based crop oil concentrate at 1% v/v (4 quarts/100 gallons) or a nonionic surfactant at 0.25% v/v (1 quart/100 gallons). Crop oil concentrate is the preferred adjuvant in arid areas.

## Pineapple

ASSURE® II herbicide is registered for control of annual and perennial grasses in pineapple in Hawaii and Puerto Rico.

Applied at specified rates and timing, ASSURE® II herbicide will control emerged grasses. Subsequent flushes of grasses require additional treatment.

Use a sprayer properly calibrated to a constant speed and rate of delivery. Mix the proper amount of ASSURE® II in water.

- Foliar applications - Apply ASSURE® II at 15-30 fluid ounces of product per acre per application.
- Directed spot treatments for perennial grasses - Spray perennial grasses postemergence to wet (50-100 gallons per acre depending on size) with 15 to 30 fluid ounces product per 100 gallons of water as a spot treatment.
- Do not graze treated fields or harvest for forage or hay.
- Apply by ground application equipment only. Do not apply by air.
- Do not make more than 4 applications per harvest.
- Do not apply more than 60 fluid ounces (0.41 lb ai) of ASSURE® II herbicide per acre per harvest.
- Do not harvest within 160 days of last application.
- Application intervals must be greater than 7 days apart to allow regrowth to occur.

### Weeds Controlled

Sour Grass (*Tricachne insularis*)  
Crabgrass (*Digitaria* spp.)  
Natal Red Top (*Agrostis alba*)

### Weeds Partially Controlled

Guineagrass (*Panicum maximum*)  
Wiregrass (*Eleusine Indica*)  
Molasses Grass (*Melinis Minutiflora*)

## Rapeseed (Crop Subgroup 20A)

ASSURE® II herbicide is registered for control of annual and perennial grasses in crops in Rapeseed Subgroup 20A [Borage, Canola, Crambe, Gold of Pleasure (*Camelina*), Cuphea, Echium, Hare's Ear Mustard, Lequesrella, Lunaria,

Meadowfoam, Milkweed Mustard Seed, Oil Radish, Poppy Seed, Sesame, sweet rocket, including cultivars, varieties, and/or hybrids of these].

- Do not apply DuPont™ ASSURE® II within 60 days of harvest.
- The maximum use rate of ASSURE® II is 18 fluid ounces (0.124 lb ai) per acre per crop season.
- Do not make more than 2 applications per acre per season.
- Application intervals must be greater than 7 days apart to allow regrowth to occur.

#### **Ryegrass - For Grass Control In Non-Food/Non-Feed ASSURE® II Tolerant Perennial Ryegrass Crops Grown Only For Seed Production**

ASSURE® II herbicide is registered for control of annual and perennial grasses in non food/non feed ASSURE® II tolerant perennial ryegrass crops grown specifically for seed production in the state of Minnesota. ASSURE® II herbicide will control emerged grasses when applied at specified rates and timings. Subsequent flushes of grasses require additional treatment.

- Apply ASSURE® II at 10 fluid ounces/acre prior to the boot stage in the spring of the second year of ASSURE® II tolerant perennial ryegrass growth. Application at this stage is for vegetative suppression of quackgrass growth and preventing quackgrass seed contamination during ryegrass harvest.
- Do not apply ASSURE® II after boot stage of growth of ASSURE® II tolerant perennial ryegrass.
- Application of ASSURE® II at 10 fluid ounces/acre may be made in the first season of ASSURE® II tolerant perennial ryegrass growth for control of heavier quackgrass infestations. Such applications can be made anytime from planting until the end of August.
- Fall application of ASSURE® II should be avoided on ASSURE® II tolerant perennial ryegrass because seed production may be reduced.
- After using ASSURE® II, do not divert any portion of crop (seed, sprouts, screenings, forage, hay, stover, etc.) to use for human or animal consumption. Grazing of treated crop is prohibited.
- Apply by ground application equipment only. Do not apply by air.
- The maximum use rate of ASSURE® II is 20 fluid ounces (0.138 lb ai) per acre per crop season.
- Do not make more than 2 applications per acre per season.
- Application intervals must be greater than 7 days apart to allow regrowth to occur.

#### **Snap Beans**

- Do not apply ASSURE® II within 15 days of harvest.
- The maximum use rate of ASSURE® II is 14 fluid ounces (0.096 lb ai) per acre per season.
- Do not make more than 2 applications per acre per season.
- Application intervals must be greater than 7 days apart to allow regrowth to occur.

#### **INZEN™ A II Grain Sorghum**

Apply ASSURE® II herbicide as a postemergence foliar spray to selectively control grasses only in INZEN™ A II grain sorghum.

NOTE: Sorghum not containing the INZEN™ A II herbicide tolerance trait will be severely injured or killed if treated with ASSURE® II herbicide.

Apply ASSURE® II at 5 - 12 fluid ounces/acre. Always include an adjuvant as noted below.

Apply ASSURE® II anytime after sorghum emergence up to 45 days before harvest.

Applications made to 4 – 20” tall sorghum (approximately V3 - V7) are recommended for best weed control and crop tolerance. Best results are obtained when applications are made to young, actively growing grasses.

Applications made to sorghum greater than 20” tall may result in poor spray coverage on weeds and diminished crop vigor due to weed competition.

- Do not apply ASSURE® II within 45 days of harvest.
- The maximum use rate of ASSURE® II is 20 fluid ounces (0.138 lb ai) per acre per crop season.
- Do not make more than two applications of ASSURE® II per acre per cropping season.
- Application intervals must be greater than 7 days apart to allow regrowth to occur.

DuPont™ ASSURE® II can be tank mixed with postemergence grain sorghum herbicides including atrazine, dicamba and 2,4-D.

Include either a crop oil concentrate or a nonionic surfactant as specified on the product labels.

In addition to the tank mix partners indicated above, ASSURE® II may be tank mixed or followed with sequential applications of full or reduced rates of other products registered for use in sorghum provided:

- The tank mix product is labeled for the same timing, method of application, adjuvants, and use restrictions as ASSURE® II
- The tank mixture is not specifically prohibited on the label of the tank mix product.
- The tank mix combination is compatible as determined by a “jar test” described in the Tank Mix Compatibility Testing section.

Weed control and crop response with tank mixtures not specified in this label are the responsibility of the user and manufacturer of the tank mix product.

### Soybeans

- Do not apply ASSURE® II within 80 days of harvest.
- The maximum use rate of ASSURE® II is 18 fluid ounces (0.124 lb ai) per acre per crop season.
- Do not make more than 2 applications per acre per season.
- Application intervals must be greater than 7 days apart to allow regrowth to occur.

ASSURE® II can be tank mixed with postemergence soybean broadleaf herbicides including CLASSIC®, "Harmony" and SYNCHRONY® XP herbicide, “Flexstar” or “Basagran” for use on soybeans to control broadleaf weeds and selected grasses. Tank mixtures of ASSURE® II with chlorimuron-ethyl (e.g. DuPont™ CLASSIC® or DuPont™ SYNCHRONY® XP) or with cloransulam-methyl (e.g. “FirstRate”) containing herbicides may fail to control certain grass species normally controlled by ASSURE® II alone.

Include ammonium nitrogen fertilizer if specified on the tankmix partner label. Include either a crop oil concentrate or a nonionic surfactant as specified in the following table:

*(Pints per 100 gallons of spray solution)*

ASSURE® II Tank mix partner	Ground		Aerial	
	COC	NIS	COC	NIS
CLASSIC®	8	2	4	2
SYNCHRONY® XP	–*	1-2†	–*	1-2†
“Basagran”	8	–	4	–
“Flexstar”	8	–	4	–

\* Do not use “Dash” or crop oil concentrate when tank mixing ASSURE® II with or SYNCHRONY® XP unless specified on other DuPont supplemental labeling.

† Using the higher rate of nonionic surfactant, particularly under hot, humid conditions, may increase temporary crop injury.

### Sugarbeets

- Do not apply ASSURE® II within 45 days of beet harvest.
- The maximum use rate of ASSURE® II is 25 fluid ounces (0.17 lb ai) per acre per crop season.
- Do not feed beet tops within 60 days of last application.
- Do not apply more than 4 applications per acre per season.
- Application intervals must be greater than 7 days apart to allow regrowth to occur.

### Sunflowers

- Do not apply ASSURE® II within 60 days of harvest.
- The maximum use rate of ASSURE® II is 18 fluid ounces (0.124 lb ai) per acre per crop season.
- Do not make more than 2 applications per acre per season.
- Application intervals must be greater than 7 days apart to allow regrowth to occur.

## **Enlist™ Field Corn**

- These directions are for use on Enlist™ field corn. Information on crop varieties containing this trait may be obtained from your seed supplier.
- For use only in the following states: AL, AR, CO, DE, FL, GA, IA, IL, IN, KS, KY, LA, MD, MI, MN, MO, MS, NC, ND, NE, NJ, NM, NY, OH, OK, PA, SC, SD, TN, TX, VA, WI, and WV.
- Field corn not possessing the Enlist™ trait will be severely injured or killed if treated with DuPont™ ASSURE® II.
- Apply ASSURE® II at 5-12 fluid ounces (0.034-0.083 lb ai) per acre to Enlist™ field corn.
- Application intervals must be greater than 7 days apart to allow for regrowth.
- Apply ASSURE® II to emerged Enlist™ field corn that is at the V2 through V6 stage of development. Best results are obtained when applications are made to actively growing weeds.
- Applications must include either a crop oil concentrate (1% v/v) or a nonionic surfactant (0.25% v/v).
- Apply using the lowest boom height that is consistent with pest control objectives.
- Do not make more than 2 applications per acre per crop season or per year.
- Do not apply more than a total of 12 fl oz (0.083 lb ai) per acre per crop season or per year.
- Do not allow grazing on treated corn within 30 days of application.
- Do not apply by air.
- Do not harvest forage within 30 days of application. Do not harvest grain and stover within 79 days of application.

### **In-Field Buffer:**

The applicator must always maintain a 36-foot, downwind buffer between the last treated row and the nearest downwind field edge (in the direction the wind is blowing). The following areas may be included in the buffer distance calculation when directly adjacent to the treated field edge(s):

- Roads, paved or gravel surfaces.
- Planted agricultural fields (except crops listed in the "Susceptible Plants" section).
- Agricultural fields that have been prepared for planting.
- Areas covered by the footprint of a building, shadehouse, greenhouse, silo, feed crib, or other man-made structure with walls and/or a roof.

To maintain the required downwind buffer zone:

- Measure the wind direction prior to the start of any swath that is within 36 feet of a sensitive area.
- No application swath can be initiated in or into an area that is within 36 feet of a sensitive area if the wind direction is towards the sensitive area.

### **Susceptible Plants:**

Do not apply under circumstances where spray drift may occur to food, forage, or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption. Do not allow contact of herbicide with foliage, green stems, exposed non-woody roots of crops, desirable plants; including trees, because severe injury or destruction may result. Small amounts of spray drift that may not be visible may injure susceptible plants. Most grass crops, including wheat, barley, rye, oats, sorghum, rice, and non - Enlist™ corn are highly sensitive to ASSURE® II. Before making an application, please refer to your state's sensitive crop registry (if available) to identify any commercial specialty or certified organic crops that may be located nearby.

### **Resistance Management for Enlist™ Field Corn:**

The following steps are provided to aid in the prevention of developing weeds resistant to this product:

- Scout field before application to ensure herbicides and rates will be appropriate for the weed species and weed sizes present.
- Apply the maximum specified labeled use rate of this product for the most difficult to control weed in the field at the specified time (correct weed size) to minimize weed escapes.
- Scout field after application to detect weed escapes or shifts in weed species.
- Report any incident of non-performance of this product on a targeted weed species to your DuPont retailer, representative, or call 1-888-6-DUPONT (1-888-638-7668).

- If resistance is suspected in targeted weed species, treat weed escapes with an herbicide having a mechanism of action other than Group 1 and/or use non-chemical methods to remove escapes, as practical, with the goal of preventing further seed production. Report suspected resistance to your DuPont retailer, representative, or call 1-888-6-DUPONT (1-888-638-7668).

**Suspected Resistance:** Indicators of suspected herbicide resistance include (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of uncontrolled plants of a particular weed species; and (3) surviving plants mixed with controlled individuals of the same species. Likely resistant weeds are assumed to be present if any of these criteria are met.

Additionally, users should follow as many of the following herbicide-resistance management practices as practicable:

- Use a broad-spectrum, soil-applied herbicide with other mechanisms of action as a foundation in a weed control program.
- Utilize sequential applications of herbicides with alternative mechanisms of action.
- Rotate the use of this product with non-Group 1 herbicides.
- Incorporate non-chemical weed control practices, such as mechanical cultivation, crop rotation, cover crops, and weed-free crop seeds, as part of an integrated weed control program.
- Thoroughly clean plant residues from equipment before leaving fields suspected to contain resistant weeds.
- Avoid using any other Group 1 herbicides within a single growing season unless in conjunction with another mechanism-of-action herbicide with overlapping spectrum.
- Manage weeds in and around fields, during and after harvest to reduce weed seed production.

Contact your local sales representative, crop advisor, or extension agent to find out if suspected resistant weeds to Group 1 herbicides have been found in your regions. If resistant biotypes of target weeds have been reported, use the application rates of this product specified for your local conditions. Tank mix products so that there are multiple effective mechanisms of action for each target weed.

#### **Tank Mixing:**

- For use on Enlist™ corn, do not tank mix this product with any other pesticide product(s) without first consulting the website at [www.EnlistTankMix.com/AssureII](http://www.EnlistTankMix.com/AssureII). This website contains a list of pesticide active ingredients that are currently prohibited from tank mixing with this product. When tank mixing this product, only use pesticide product(s) that: 1) are registered for the intended use site, application method, and timing; 2) do not prohibit tank mixing; and 3) do not contain one of the prohibited pesticide active ingredients listed on [www.EnlistTankMix.com/AssureII](http://www.EnlistTankMix.com/AssureII).
- Mixers, applicators, and other handlers of this product must consult the website within one week prior to application in order to comply with the most up-to-date information on tank mix partners.

## **CROP ROTATION**

Do not rotate to crops other than Cotton, Dry Beans (including Chickpea), Flax, Lentils, Mint (Spearmint and Peppermint), Peas (Dry and Succulent Peas), Rapeseed Crop Subgroup 20A [includes Borage, Canola, Crambe, Gold of Pleasure (Camelina), Cuphea, Echium, Hare's Ear Mustard, Lesquerella, Lunaria, Meadowfoam, Milkweed, Mustard Seed, Oil Radish, Poppy Seed, Sesame, and Sweet Rocket], Snap Beans, Soybeans, Sunflowers, Sugarbeets or Enlist™ field corn within 120 days after application.

## **APPLICATION EQUIPMENT**

- See SPRAY DRIFT MANAGEMENT section for additional information and precautions.

### **Ground Application**

#### **Broadcast Application**

- When applying by ground, use spray nozzles that will deliver medium or larger spray droplets as defined in the American Society of Agricultural and Biological Engineers (ASABE) standard ANSI/ASAE S572.1 (March 2009). (See Spray Drift Management section for additional information).
- 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. In addition, do not use controlled droplet applicator (CDA) type nozzles as poor weed control or excessive spray drift may result.
- Use a minimum of 10 gal of water per acre in nonarid areas.
- Use a minimum of 15 gal of water per acre in arid areas.
- Do not exceed 40 gal of water per acre.
- Increase spray volume and pressure as weed or crop density and size increase.

### **Band Application**

- Because band application equipment sprays a narrower area than broadcast application equipment, calibrate equipment to use proportionately less spray solution.
- To avoid crop injury, carefully calibrate the band applicator not to exceed the labeled rate.
- Carefully follow the manufacturer's instructions for nozzle type, nozzle orientation, distance of the nozzles from the crop and weeds, spray volumes, calibration, and spray pressure.

### **Aerial Application**

- When applying by air, use spray nozzles that will deliver coarse or larger spray droplets as defined in the American Society of Agricultural and Biological Engineers (ASABE) standard ANSI/ASAE S572.1 (March 2009). (See Spray Drift Management section for additional information).
- Use nozzle types and arrangements that provide optimum spray distribution and maximum coverage.
- Use a minimum of 3 gal of water per acre in nonarid areas.
- Use a minimum of 5 gal of water per acre in arid areas.

### **MIXING INSTRUCTIONS**

1. Fill the tank 1/4 to 1/3 full of water.
2. While agitating, add the required amount of DuPont™ ASSURE® II. If ASSURE® II and a tank mix partner are to be applied together, consult the tank mix partner label for information on which should be added first (normally granules and powders are added first).
3. Continue agitation until the ASSURE® II is fully dispersed, at least 5 minutes.
4. Once the ASSURE® II is fully dispersed, maintain agitation and continue filling tank with water.
5. As the tank is filling, add the required volume of spray additives, always add these to the spray tank last.
6. Apply ASSURE® II spray mixture within a reasonable period of time of mixing to avoid product degradation (24 to 48 hrs). If the spray mixture stands for any period of time, thoroughly re-agitate before using.

### **SPRAYER CLEANUP**

The spray equipment must be cleaned before ASSURE® II is sprayed. Follow the cleanup procedures specified on the labels of the previously applied products. If no directions are provided, follow the six steps outlined in After Spraying ASSURE® II. It is very important that any buildup of dried pesticide deposits which have accumulated in the application equipment be removed prior to spraying ASSURE® II. Steam-cleaning spray tanks to facilitate the removal of any caked deposits of previously applied products will help prevent accidental crop injury.

#### **At the End of the Day**

It is recommended that during periods when multiple loads of ASSURE® II herbicide are applied, at the end of each day of spraying the interior of the tank be rinsed with fresh water and then partially filled, and the boom and hoses flushed. This will prevent the buildup of dried pesticide deposits which can accumulate in the application equipment.

#### **After Spraying ASSURE® II and Before Spraying Crops Other Than Those Listed in the Crop Rotation Section**

To avoid subsequent injury to desirable crops, thoroughly clean all mixing and spray equipment immediately following applications of ASSURE® II as follows:

1. Drain tank; thoroughly rinse spray tanks, boom, and hoses with clean water. Loosen and physically remove any visible deposits.

2. Fill the tank with clean water and 1 gal of household ammonia\* (contains 3% active) for every 100 gal of water. Flush the hoses, boom, and nozzles with the cleaning solution. Then add more water to completely fill the tank. Circulate the cleaning solution through the tank and hoses for at least 15 min. Flush the hoses, boom, and nozzles again with the cleaning solution, and then drain the tank.
3. Remove the nozzles and screens and clean separately in a bucket containing cleaning agent and water.
4. Repeat step 2.
5. Rinse the tank, boom, and hoses with clean water.
6. If only Ammonia is used as a cleaner, the rinsate solution may be applied back to the crop(s) recommended on this label. Do not exceed the maximum labeled use rate. If other cleaners are used, consult the cleaner label for rinsate disposal instructions. If no instructions are given, dispose of the rinsate on site or at an approved waste disposal facility.

\*Equivalent amounts of an alternate-strength ammonia solution or a DuPont-approved cleaner can be used in the cleanout procedure. Carefully read and follow the individual cleaner instructions. Consult your Ag dealer, applicator, or DuPont representative for a listing of approved cleaners.

#### **Notes:**

1. CAUTION: Do not use chlorine bleach with ammonia as dangerous gases will form. Do not clean equipment in an enclosed area.
2. Steam-cleaning spray tanks is recommended prior to performing the above cleanout procedure to facilitate the removal of any caked deposits.
3. When DuPont™ ASSURE® II is tank mixed with other pesticides, all cleanout procedures should be examined and the most rigorous procedure should be followed.
4. In addition to this cleanout procedure, all precleanout guidelines on subsequently applied products should be followed as per the individual labels.
5. Where routine spraying practices include shared equipment frequently being switched between applications of ASSURE® II and applications of other pesticides to ASSURE® II-sensitive crops during the same spray season, it is recommended that a sprayer be dedicated to ASSURE® II to further reduce the chance of crop injury.

## **SPRAY DRIFT MANAGEMENT**

The interaction of many equipment and weather-related factors determines the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

AVOIDING SPRAY DRIFT IS THE RESPONSIBILITY OF THE APPLICATOR.

### **Importance of Droplet Size**

The most effective way to reduce drift potential is to apply coarse or larger spray droplets as defined by the ASABE standard ANSI/ASAE S572.1 (March 2009). The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. The presence of sensitive species nearby, the environmental conditions, and pest pressure may affect how an applicator balances drift control and coverage. **APPLYING LARGER DROPLETS REDUCES DRIFT POTENTIAL, BUT WILL NOT PREVENT DRIFT IF APPLICATIONS ARE MADE IMPROPERLY OR UNDER UNFAVORABLE ENVIRONMENTAL CONDITIONS!** See **Wind, Temperature and Humidity**, and **Temperature Inversions** sections of this label.

### **Controlling Droplet Size - Ground Boom**

**Volume** - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.

**Pressure** - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.

**Spray Nozzle** - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

### **Controlling Droplet Size - Aircraft**

**Number of Nozzles** - Using the minimum number of nozzles with the highest flow rate that provide uniform coverage will produce a coarser droplet spectrum.

**Nozzle Orientation** - Orienting nozzles in a manner that minimizes the effects of air shear will produce the coarsest droplet spectra. For some nozzles such as solid stream, pointing the nozzles straight back parallel to the airstream will produce a coarser droplet spectrum than other orientations.

**Nozzle Type** - Solid stream nozzles (such as disc and core with swirl plate removed) or other low drift nozzles produce the coarsest droplet spectra.

**Pressure** - Selecting the pressure that produces the coarsest droplet spectrum for a particular nozzle and airspeed reduces spray drift potential. For some nozzle types such as solid streams, lower pressures can produce finer droplet spectra and increase drift potential.

## **Boom Length (Aircraft) And Application Height**

- **Boom Length (aircraft)** - Using shorter booms decreases drift potential. Boom lengths are expressed as a percentage of an aircraft's wingspan or a helicopter's rotor blade diameter. Shorter boom length and proper positioning can minimize drift caused by wingtip or rotor vortices.
- **Application Height (aircraft)** - Applications made at the lowest height that are consistent with pest control objectives and the safe operation of the aircraft will reduce the potential for spray drift.
- **Application Height (ground)** - Applications made at the lowest height consistent with pest control objectives, and that allow the applicator to keep the boom level with the application site and minimize bounce, will reduce the exposure of spray droplets to evaporation and wind, and reduce spray drift potential.

## **Wind**

Apply when wind speeds are less than 15 mph. The wind speed range for optimum performance is between 3 and 10 mph. At wind speeds less than 3 mph temperature inversions may exist, and at wind speeds above 10 mph spray patterns may be compromised. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. AVOID GUSTY OR WINDLESS CONDITIONS.

**Note:** Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

## **Temperature and Humidity**

Setting up equipment to produce larger droplets to compensate for droplet evaporation can reduce spray drift potential. Droplet evaporation is most severe when conditions are both hot and dry.

## **Temperature Inversions**

Do not apply during surface temperature inversions. Drift potential is high during a surface temperature inversion. Surface temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain close to the ground and move laterally in a concentrated cloud. Surface inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Mist or fog may indicate the presence of an inversion in humid areas. Inversions may also be identified by producing smoke and observing its behavior. Smoke that remains close to the ground, or moves laterally in a concentrated cloud under low wind conditions indicates a surface inversion. Smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

## **Shielded Sprayers**

Shielding the boom or individual nozzles can reduce the effects of wind. However, it is the responsibility of the applicator to verify that the shields are minimizing drift potential and not interfering with uniform deposition of the product.

## **Sensitive Areas**

Making applications when there is a sustained wind moving away from adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is an effective way to minimize the effect of spray drift.

## **Drift Control Additives**

Using product compatible drift control additives can reduce drift potential. When a drift control additive is used, read and carefully observe cautionary statements and all other information on the additive's label. If using an additive that increases viscosity, ensure that the nozzles and other application equipment will function properly with a viscous spray solution. Preferred drift control additives have been certified by the Chemical Producers and Distributors Association (CPDA).

## **Upwind Swath Displacement**

When applications are made with a crosswind the swath will be displaced downwind. An adjustment for swath displacement is made on the downwind edge of the application site by shifting the path of the application equipment upwind.

## **SPRAY DRIFT RESTRICTIONS**

- Where states have more stringent regulations they must be observed.

## **AERIAL APPLICATIONS**

- When applying by air, use spray nozzles that will deliver coarse or larger spray droplets as defined in the American Society of Agricultural and Biological Engineers (ASABE) standard ANSI/ASAE S572.1 (March 2009).
- The boom length must not exceed 75% of the wing span or 80% of the rotor blade diameter.
- Applications with wind speeds greater than 15 miles per hour are prohibited.
- Applications into temperature inversions are prohibited.

- Spray must be released at the lowest height consistent with pest control objectives and flight safety.
- Applicators must consider the effects of nozzle orientation and flight speed when determining droplet size spectrum.

#### **GROUND APPLICATIONS**

- When applying by ground, use spray nozzles that will deliver medium coarse or larger spray droplets as defined in the American Society of Agricultural and Biological Engineers (ASABE) standard ANSI/ASAE S572.1 (March 2009).
- Applications with wind speeds greater than 15 miles per hour are prohibited.
- Applications into temperature inversions are prohibited.
- Apply spray at the lowest height that is consistent with pest control objectives.

## STORAGE AND DISPOSAL

**Pesticide Storage:** Store product in original container only. Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in a cool, dry place.

**Product Disposal:** Do not contaminate water, food, or feed by disposal. Waste resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Handling: Refer to the Net Contents section of this product's labeling for the applicable "Nonrefillable Container" or "Refillable Container" designation.**

**Nonrefillable Rigid Plastic and Metal Containers (Capacity Equal to or Less Than 5 Gallons):** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**Nonrefillable Rigid Plastic and Metal Containers (Capacity Greater Than 5 Gallons):** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**Nonrefillable Rigid Plastic and Metal Containers, e.g., Intermediate Bulk Containers [IBC] (Size or Shape Too Large to be Tipped, Rolled or Turned Upside Down):** Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying the contents from this container into application equipment or mix tank and before final disposal using the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

**All Refillable Containers:** Refillable container. *Refilling Container:* Refill this container with DuPont™ ASSURE® II containing quizalofop p-ethyl only. Do not reuse this container for any other purpose. Cleaning before refilling is the responsibility of the refiller. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn out threads and closure devices. If damage is found, do not use container, contact DuPont at the number below for instructions. Check for leaks after refilling and before transporting. If leaks are found, do not reuse or transport container, contact DuPont at the number below for instructions. *Disposing of Container:* Do not reuse this container for any other purpose other than refilling (see preceding). Cleaning the container before final disposal is the responsibility of the person disposing of the container. To clean the container before final disposal, use the following pressure rinsing procedure. Insert a lance fitted with a suitable tank cleaning nozzle into the container and ensure that the water spray thoroughly covers the top, bottom and all sides inside the container. The nozzle manufacturer generally provides instructions for the appropriate spray pressure, spray duration and/or spray volume. If the manufacturer's instructions are not available, pressure rinse the container for at least 60 seconds using a minimum pressure of 30 PSI with a minimum rinse volume of 10% of the container volume. Drain, pour or pump rinsate into application equipment or rinsate collection system. Repeat this pressure rinsing procedure two more times. Then, for Plastic Containers, offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. For Metal Containers, offer for recycling if available or reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

Do not transport if container is damaged or leaking. If the container is damaged, leaking or obsolete, or in the event of a major spill, fire or other emergency, contact DuPont at 1-800-441-3637, day or night.

**Notice to Buyer:** Purchase of this material does not confer any rights under patents of countries outside of the United States.

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## **D - 2098MSTR 040418**

### **LIMITATION OF WARRANTY AND LIABILITY**

NOTICE: Read this Limitation of Warranty and Liability Before Buying or Using This Product. If the Terms Are Not Acceptable, Return the Product at Once, Unopened, and the Purchase Price Will Be Refunded.

It is impossible to eliminate all risks associated with the use of this product. Such risks arise from weather conditions, soil factors, off target movement, unconventional farming techniques, presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of DuPont. These risks can cause: ineffectiveness of the product, crop injury, or injury to non-target crops or plants. **WHEN YOU BUY OR USE THIS PRODUCT, YOU AGREE TO ACCEPT THESE RISKS.**

DuPont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purpose stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, DUPONT MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, IN NO EVENT SHALL DUPONT OR SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BUYER'S OR USER'S BARGAINED-FOR EXPECTATION IS CROP PROTECTION. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER AND THE EXCLUSIVE LIABILITY OF DUPONT OR SELLER, FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, TORT OR STRICT LIABILITY), WHETHER FROM FAILURE TO PERFORM OR INJURY TO CROPS OR OTHER PLANTS, AND RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT, OR AT THE ELECTION OF DUPONT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

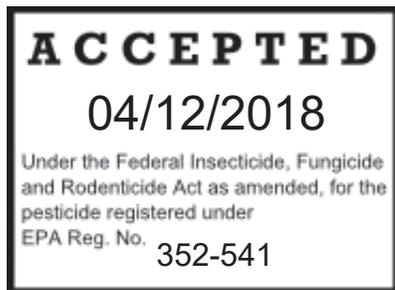
To the extent consistent with applicable law that allows such requirement, DuPont or its Ag Retailer must have prompt notice of any claim so that an immediate inspection of buyer's or user's growing crops can be made. Buyer and all users shall promptly notify DuPont or a DuPont Ag Retailer of any claims, whether based on contract, negligence, strict liability, other tort or otherwise, or be barred from any remedy.

This Limitation of Warranty and Liability may not be amended by any oral or written agreement.

For product information call: 1-888-6-DUPONT [1-888-638-7668]

Internet address: <http://cropprotection.dupont.com/>

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## SUPPLEMENTAL LABELING

**DUPONT™ ASSURE® II HERBICIDE  
FOR USE ONLY ON ENLIST™ FIELD  
CORN (DAS-40278-9)**

### **DUPONT™ ASSURE® II HERBICIDE**

EPA Reg. No. 352-541

**FOR USE ONLY ON ENLIST™ FIELD CORN (DAS-40278-9) IN  
THE STATES OF AL, AR, CO, DE, FL, GA, IA, IL, IN, KS, KY, LA,  
MD, MI, MN, MO, MS, NC, ND, NE, NJ, NM, NY, OH, OK, PA, SC,  
SD, TN, TX, VA, WI AND WV**

**This supplemental label expires on March 30, 2021 and must not be used or distributed after that date.**

## **DANGER - PELIGRO**

### **IMPORTANT**

**BEFORE USING ASSURE® II HERBICIDE, 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.

Read the Limitation of Warranty and Liability on the Section 3 Federal product label before buying or using THIS product. If terms are not acceptable; return the unopened package at once to Seller for full refund of purchase price paid. Otherwise; use by Buyer or any other User constitutes acceptance of the terms of the Limitation of Warranty and Liability on the Section 3 Federal product label.

### **DIRECTIONS FOR USE**

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

Do not use this product until you have read the entire label. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### **PRODUCT INFORMATION**

DuPont™ Assure® II Herbicide is a liquid herbicide that contains the active ingredient quizalofop-p-ethyl (quizalofop), and is applied as a foliar spray to control certain grassy weeds in field corn containing the Dow Enlist™ herbicide tolerant trait (DAS-40278-9). Information on crop varieties containing this trait may be obtained from your seed supplier.

Only use this product on field corn specifically identified as containing the Enlist™ trait. Field corn not possessing the Enlist™ trait will be severely injured or killed if treated with ASSURE® II.

## APPLICATION DIRECTIONS USE RATE

Apply ASSURE® II at 5-12 fluid ounces (0.034-0.083 lb ai) per acre to Enlist™ field corn.  
Application intervals must be greater than 7 days apart to allow for regrowth.

## SPRAY ADJUVANTS

Applications of Assure® II must include crop oil concentrate (1% v/v) or nonionic surfactant (0.25% v/v). Consult main Section 3 label for adjuvant requirements.

## APPLICATION TIMING

Apply Assure® II to emerged Enlist™ field corn that is at the V2 through V6 stage of development.  
Best results are obtained when applications are made to actively growing plants. Assure® II is rainfast 1 hour after application.

## RESTRICTIONS

- Apply using the lowest boom height that is consistent with pest control objectives
- Do not make more than 2 applications per acre per crop season or per year.
- Do not apply more than a total of 12 fluid ounces (0.083 lb ai) per acre per crop season or per year.
- Do not allow grazing on treated corn within 30 days of application.
- Do not apply by air.
- Do not harvest forage within 30 days of application. Do not harvest grain and stover within 79 days of application.

### In-field buffer:

- The applicator **must always maintain** a 36-foot, downwind buffer between the last treated row and the nearest downwind field edge (in the direction the wind is blowing). The following areas may be included in the buffer distance calculation when directly adjacent to the treated field edge(s):
  - Roads, paved or gravel surfaces.
  - Planted agricultural fields (except crops listed in the “Susceptible Plants” section).
  - Agricultural fields that have been prepared for planting.
  - Areas covered by the footprint of a building, shadehouse, greenhouse, silo, feed crib, or other man-made structure with walls and/or a roof.

To maintain the required downwind buffer zone:

- Measure the wind direction prior to the start of any swath that is within 35 feet of a sensitive area.
- No application swath can be initiated in or into an area that is within 36 feet of a sensitive area if the wind direction is towards the sensitive area.

## RESISTANCE MANAGEMENT

ASSURE(R) II herbicide, which contains the active ingredient, quizalofop-p-ethyl, is a Group 1 herbicide based on the mode of action classification system of the Weed Science Society of America. Quizalofop-p-ethyl is in the class of herbicides known as aryloxyphenoxypropionates (FOP) within the Group 1 herbicides that inhibit the enzyme acetyl-CoA carboxylase (ACCase) in weeds.

Proactively implementing diversified weed control strategies to minimize selection for weed populations resistant to one or more herbicides is a best practice. A diversified weed management program may include the use of multiple herbicides with different sites of action and overlapping weed spectrum with or without tillage operations and/or other cultural practices. Research has demonstrated that using the labeled rate and directions for use is important to delay the selection for resistance.

The continued effectiveness of this product depends on the successful implementation of a weed resistance management program. To aid in the prevention of developing weeds resistant to this product, users should:

- Scout fields before application to ensure herbicides and rates will be appropriate for the weed species and weed sizes present.
- Start with a clean field, using either a burndown herbicide application or tillage.
- Control weeds early when they are relatively small (less than 4 inches).
- Apply full rates of DuPont™ ASSURE® II herbicide for the most difficult to control weeds in the field at the specified time (correct weed size) to minimize weed escapes.
- Scout fields after application to detect weed escapes or shifts in control of weed species.
- Control weed escapes before they reproduce by seed or proliferate vegetatively.
- Report any incidence of non-performance of this product against a particular weed to your DuPont representative, local retailer, or county extension agent.

- Contact your DuPont representative, crop advisor, or extension agent to find out if suspected resistant weeds to this MOA have been found in your region. If resistant biotypes of target weeds have been reported, use the application rates of this product specified for your local conditions. Tank mix products so there are multiple effective sites of actions for each target weed.
- If resistance is suspected, treat weed escapes with an herbicide having a site of action other than Group 1 and/or use nonchemical methods to remove escapes, as practical, with the goal of preventing further seed production.
- Suspected herbicide-resistant weeds may be identified by these indicators:
  - Failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds;
  - A spreading patch of non-controlled plants of a particular weed species; and
  - Surviving plants mixed with controlled individuals of the same species.

Additionally, users should follow as many of the following herbicide resistance management practices as is practical:

- Use a broad spectrum soil-applied herbicide with other sites of action as a foundation in a weed control program.
- Utilize sequential applications of herbicides with alternative sites of action.
- Rotate the use of this product with non-Group 1 herbicides.
- Avoid making more than two applications of ASSURE® II herbicide and any other Group 1 herbicides within a single growing season unless mixed with an herbicide with a different site of action with an overlapping spectrum for the difficult-to-control weeds.
- Incorporate non-chemical weed control practices, such as a mechanical cultivation, crop rotation, cover crops and weed-free crop seeds, as part of an integrated weed control program.
- Use good agronomic principles that enhance crop development and crop competitiveness.
- Thoroughly clean plant residues from equipment before leaving fields suspected to contain resistant weeds.
- Manage weeds in and around fields, during and after harvest to reduce weed seed production.

## SUSCEPTIBLE PLANTS

Do not apply under circumstances where spray drift may occur to food, forage, or other plantings that might be damaged or crops thereof rendered unfit for sale, use or consumption. Do not allow contact of herbicide with foliage, green stems, exposed non-woody roots of crops and desirable plants, because severe injury or destruction may result. Small amounts of spray drift that may be visible may injure susceptible plants. Most grass crops, including wheat, barley, rye, oats, sorghum, rice and non-Enlist™ corn are highly sensitive to Assure® II. Before making an application, please refer to your state's sensitive crop registry (if available) to identify any commercial specialty or certified organic crops that may be located nearby.

## TANK MIXING

- For use on Dow Enlist™ field corn, do not tank mix this product with any other pesticide product(s) without first consulting the website at [www.EnlistTankMix.com/AssureII](http://www.EnlistTankMix.com/AssureII). This website contains a list of pesticide active ingredients that are currently prohibited from tank mixing with this product. When tank mixing this product, only use pesticide product(s) that: 1) are registered for the intended use site, application method, and timing; 2) do not prohibit tank mixing; and 3) do not contain one of the prohibited pesticide active ingredients listed on [www.EnlistTankMix.com/AssureII](http://www.EnlistTankMix.com/AssureII).
- Mixers, applicators, and other handlers of this product must consult the website within one week prior to application in order to comply with the most up-to-date information on tank mix partners.
- It is the pesticide applicator's responsibility to ensure that all products are registered for the intended use. Applicators must read and follow the most restrictive directions for use, precautions, and limitations of each product in the tank mixture.

\* Assure is a trademark of E.I. DuPont de Nemours and Company ("DuPont") or an affiliated company of DuPont. Enlist is a trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow.