

# **FOR PREEMERGENCE AND POSTEMERGENCE USE ON ROUNDUP READY 2 XTEND SOYBEANS - PERENNIAL (TOP GROWTH CONTROL AND ROOT SUPPRESSION)**

## General Information

### PRODUCT INFORMATION

Do not apply by air. This product is a water-soluble formulation intended for control and suppression of many annual, biennials, and perennial broadleaf weeds, as well as woody brush and vines listed in the WEEDS CONTROLLED section of this label.

This product may be used for control of these weeds in corn, cotton, conservation reserve programs, fallow cropland, grass grown for seed, hay, proso millet, pasture, rangeland, general farmstead (noncropland), small grains, sorghum, soybean, and sugarcane.

DuPont FeXapan herbicide Plus VaporGrip Technology is a postemergence, systemic herbicide which can have moderate residual control on small seeded broadleaf weeds, including waterhemp, lambsquarters and Palmer pigweed, depending on rainfall and soil type.

Refer to the CROP-SPECIFIC INFORMATION section for application timing and other crop-specific details.

DuPont FeXapan herbicide Plus VaporGrip Technology is readily absorbed by plants through shoot and root uptake, translocates throughout the plant's system, and accumulates in areas of active growth. DuPont FeXapan herbicide Plus VaporGrip Technology interferes with the plant's growth hormones (auxins) resulting in death of many broadleaf weeds.

Do not add buffering agents or pH adjusting agents to the spray solution when DuPont FeXapan herbicide Plus VaporGrip Technology is the only pesticide being applied unless otherwise directed. See the MIXING section of this label for instructions regarding other additives.

### RESTRICTIONS

**Maximum Application Rates:** The maximum application or use rates stated throughout this label are given in units of volume (fluid ounces or quarts) of this

product per acre. However, the maximum allowed application rates apply to this product combined with the use of any and all other herbicides containing the active ingredients dicamba, whether applied separately or as a tank mixture, on a basis of total pounds of dicamba (acid equivalents) per acre. If more than one dicamba-containing product is applied to the same site within the same year, you must ensure that the total use of dicamba (pounds acid equivalents) does not exceed the maximum allowed. See the INGREDIENTS section of this label for necessary product information.

Maximum seasonal use rate: Refer to Table 2. Crop-Specific Restrictions for crop-specific maximum seasonal use rates.

Do not exceed 88 fluid ounces of DuPont FeXapan herbicide Plus VaporGrip Technology (2 pounds acid equivalent) per acre, per year.

Preharvest Interval (PHI): Refer to the CROP-SPECIFIC INFORMATION section for preharvest intervals.

Restricted Entry Interval (REI): 24 hours

Rainfast period: Rainfall or irrigation occurring within 4 hours after postemergence applications may reduce the effectiveness of this product.

Stress: Do not apply to crops under stress due to lack of moisture, hail damage, flooding, herbicide injury, mechanical injury, insects, or widely fluctuating temperatures as injury may result.

Do not apply through any type of irrigation equipment. Do not treat irrigation ditches or water used for crop irrigation or domestic purposes.

## WEED RESISTANCE MANAGEMENT

Dicamba mimics auxin (a plant hormone) resulting in a hormone imbalance in susceptible plants that interferes with normal cell division, cell enlargement, and protein synthesis. Dicamba active ingredient is a Group 4 herbicide based on the mode of action classification system of the Weed Science Society of America. Any weed population can contain plants naturally resistant to Group 4 herbicides. Weed species resistant to Group 4 herbicides can be effectively managed utilizing another herbicide from a different Group, or by using other cultural or mechanical practices.

### Weed Management Practices

To minimize the occurrence of dicamba-resistant biotypes, observe the following weed management practices:

- Scout your fields before and after herbicide application.
- 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).
- Incorporate other herbicides (e.g., a selective and/or a residual herbicide) and cultural practices (e.g., tillage or crop rotation) as part of your weed control system, where appropriate.
- Use the full specified herbicide rate and proper application timing for the hardest to control weed species present in the field. Avoid tank mixtures with other herbicides that reduce the efficacy of this product (through antagonism), or with ones that encourage application rates of this product below those specified on this label.
- Control weed escapes before they reproduce by seed or proliferate vegetatively.
- Clean equipment before moving from field to field to minimize the spread of weed seed or plant parts.
- Use new commercial seed that is as free of weed seed as possible.
- Use good agronomic principles that enhance crop development and crop competitiveness.
- Report any incidence of repeated non-performance of this product on a particular weed to your DuPont representative, local retailer, or county extension agent.

#### Management of Dicamba-Resistant Biotypes

Appropriate testing is critical in order to determine if a weed is resistant to dicamba. Contact your DuPont representative to determine if resistance in any particular weed biotype has been confirmed in your area, or visit on the Internet [www.weedscience.org](http://www.weedscience.org).

Since the occurrence of new dicamba-resistant weeds cannot be determined until after product use and scientific confirmation, DuPont is not responsible for any losses that result from the failure of this product to control dicamba-resistant weed biotypes.

The following good agronomic practices can reduce the spread of confirmed dicamba-resistant biotypes:

- If a naturally occurring resistant biotype is present in your field, this product may be tank-mixed or applied sequentially with an appropriately labeled herbicide with a different mode of action to achieve control.
- Cultural and mechanical control practices (e.g., crop rotation or tillage) can also be used as appropriate.

- Scout treated fields after herbicide application and control weed escapes, including resistant biotypes, before they set seed.
- Thoroughly clean equipment before leaving fields known to contain resistant biotypes.

#### 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

#### APPLICATION EQUIPMENT AND TECHNIQUES

**DO NOT APPLY THIS PRODUCT USING AERIAL SPRAY EQUIPMENT.**

DuPont FeXapan herbicide Plus VaporGrip Technology can be applied to actively growing weeds as broadcast, band, or spot spray applications using water or sprayable fertilizer as a carrier. Control weeds early when they are relatively small (less than 4 inches). Timely application to small weeds early in the season will improve control and reduce weed competition. Refer to table 1 for DuPont FeXapan herbicide Plus VaporGrip Technology application rates for control or suppression by weed type and growth stage. For crop-specific application timing and other details, refer to the CROP-SPECIFIC INFORMATION section of this label.

**APPLY THIS PRODUCT USING PROPERLY MAINTAINED AND CALIBRATED EQUIPMENT CAPABLE OF DELIVERING THE DESIRED VOLUMES.**

**CULTIVATION** Do not cultivate within 7 days after applying this product.

#### Ground Application (Banding)

When applying DuPont FeXapan herbicide Plus VaporGrip Technology by banding, determine the amount of herbicide and water volume needed using the following formula in the label.

#### Ground Application (Broadcast)

**Water Volume:** Use a minimum of 10 gallons of spray solution per broadcast acre for optimal performance. Use the higher spray volume (20 gallons per acre) when

treating dense or tall vegetation.

Application Equipment: Select nozzles designed to produce minimal amounts of fine spray particles. Spray with nozzles as close to the weeds as practical for good weed coverage.

#### Ground Application (Wipers)

DuPont FeXapan herbicide Plus VaporGrip Technology may be applied through wiper application equipment to control or suppress actively growing broadleaf weeds, brush and vines. Use a solution containing 1 part DuPont FeXapan herbicide Plus VaporGrip Technology to 1 part water. Do not apply greater than 1 lb dicamba acid equivalent (1 quart of this product) per acre per application. Do not contact desirable vegetation with herbicide solution.

Wiper application may be made to crops (including pastures) and non-cropland areas described in this label with the exception of cotton, sorghum, and soybean.

#### Limitations, Restrictions, and Exceptions

FOR PREEMERGENCE AND POSTEMERGENCE USE ON ROUNDUP READY 2 XTEND SOYBEANS

ROUNDUP READY 2 XTEND SOYBEANS CONTAIN A PATENTED GENE THAT PROVIDES TOLERANCE TO DICAMBA, THE ACTIVE INGREDIENT IN THIS PRODUCT. THIS PRODUCT WILL CAUSE SEVERE CROP INJURY OR DESTRUCTION AND YIELD LOSS IF APPLIED TO SOYBEANS THAT ARE NOT DICAMBA TOLERANT, INCLUDING SOYBEANS WITH A TRAIT ENGINEERED TO CONFER TOLERANCE TO AUXIN HERBICIDES OTHER THAN DICAMBA. FOLLOW THE REQUIREMENTS SET FORTH HEREIN TO PREVENT SEVERE CROP INJURY OR DESTRUCTION AND YIELD LOSS. CONTACT WITH FOLIAGE, GREEN STEMS, OR FRUIT OF CROPS, OR ANY DESIRABLE PLANTS THAT DO NOT CONTAIN A DICAMBA TOLERANCE GENE OR ARE NOT NATURALLY TOLERANT TO DICAMBA, COULD RESULT IN SEVERE PLANT INJURY OR DESTRUCTION.

Information on Roundup Ready 2 Xtend Soybeans can be obtained from your seed supplier or DuPont representative. Roundup Ready 2 Xtend Soybeans must be purchased from an authorized licensed seed supplier.

The instructions contained in this DuPont Supplemental Label include all applications of DuPont FeXapan herbicide Plus VaporGrip Technology that may be made to Roundup Ready 2 Xtend Soybeans during the cropping season. DO NOT

combine these instructions with other instructions in the “SOYBEAN” Section of any DuPont FeXapan herbicide Plus VaporGrip Technology label for use over crops that do not contain the dicamba tolerance trait.

Note: Roundup Ready 2 Xtend Soybeans and methods of controlling weeds and applying dicamba in a Roundup Ready 2 Xtend Soybean crop are protected under U.S. patent law. No license to use Roundup Ready 2 Xtend Soybeans are granted or implied with the purchase of this herbicide product. Roundup Ready 2 Xtend Soybeans is owned by the seed provider and a license must be obtained from the seed provider before using it. Contact your Authorized DuPont Retailer for information on obtaining a license to Roundup Ready 2 Xtend Soybeans.

See the “PRODUCT INFORMATION” and “APPLICATION EQUIPMENT AND TECHNIQUES” sections of the DuPont FeXapan herbicide Plus VaporGrip Technology product label for important use information. In the event that there are any inconsistencies with the directions for use between this supplemental label and any other labeling for this product, follow the directions for use on this supplemental label. Training and education on proper pesticide application is encouraged. Applicators should visit [www.fexapanapplicationrequirements.dupont.com](http://www.fexapanapplicationrequirements.dupont.com) for training information and opportunities relative to this product.

DuPont FeXapan herbicide Plus VaporGrip Technology is approved by U.S. EPA to be used in the following states, subject to county restriction as noted: Alabama, Arkansas, Arizona, Colorado, Delaware, Florida (excluding Palm Beach County), Georgia, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maryland, Michigan, Minnesota, Mississippi, Missouri, Nebraska, New Jersey, New Mexico, New York, North Carolina, North Dakota, Oklahoma, Ohio, Pennsylvania, South Carolina, South Dakota, Tennessee (excluding Wilson County), Texas, Virginia, West Virginia, Wisconsin.

#### Restrictions

In New York State in-crop applications allowed by certified applicator only

- Do not apply this product aerially.
- Do not make application of this product if rain is expected in the next 24 hours.

#### USE INSTRUCTIONS

Apply this product in a minimum of 10 gallons of spray solution per acre as a broadcast application. For best performance, control weeds early when they are

less than 4 inches. Timely application will improve control and reduce weed competition. Refer to the following table for maximum application rates of this product with Roundup Ready 2 Xtend Soybeans.

#### Maximum Application Rates

Combined total per year for all applications: 88 fluid ounces per acre (2.0 lb. a.e. dicamba per acre)

Total of all Burndown/Early preplant, Preplant, At-Planting, and Preemergence applications: 44 fluid ounces per acre (1.0 lb. a.e. dicamba per acre)

Total of all In-crop applications from emergence up to and including beginning bloom (R1 stage soybeans): 44 fluid ounces per acre (1.0 lb. a.e. dicamba per acre)

Maximum In-crop, single application: 22 fluid ounces per acre (0.5 lb. a.e. dicamba per acre)

a.e. - acid equivalent

Refer to Table 1 of the DuPont FeXapan herbicide Plus VaporGrip Technology label booklet for application rates for weed type and growth stage controlled by this product. Maximum in-crop application rate should be used when treating tough to control weeds, dense vegetative growth or weeds with a well-established root system.

#### Preplant, At-Planting, Preemergence

USE INSTRUCTIONS: This product may be used to control broadleaf weeds and may be applied before, during or immediately after planting Roundup Ready 2 Xtend Soybeans. Refer to the "WEEDS CONTROLLED" section of the label booklet for DuPont FeXapan herbicide Plus VaporGrip Technology for specific weeds controlled.

RESTRICTIONS: The maximum combined quantity of this product that may be applied for all preplant, at-planting, and preemergence applications is 44 fluid ounces (1.0 lb a.e. dicamba) per acre per season. The maximum application rate for a single, preplant, at-planting, or preemergence application must not exceed 44 fluid ounces (1.0 lb a.e. dicamba) per acre. Do not apply less than 22 fluid ounces (0.5 lb a.e. dicamba) per acre.

#### Postemergence (In-crop) - In NY- application by certified applicator only

USE INSTRUCTIONS: This product may be used to control broadleaf weeds in Roundup Ready 2 Xtend Soybeans. In-crop applications of this product can be made from emergence (cracking) up to and including beginning bloom (R1 growth stage

of soybeans). Do not make in-crop applications of this product after beginning bloom (R1 growth stage of soybeans). The maximum and minimum rate for any single, in-crop application is 22 fluid ounces (0.5 lb a.e. dicamba) per acre. Using the appropriate application rate may reduce the selection for resistant weeds. For best performance, control weeds early when they are less than 4 inches. DuPont does not warrant product performance of applications to labeled weeds greater than 4 inches in height.

A second application of this product up to the R1 crop growth stage may be necessary to control new flushes of weeds. Allow at least 7 days between applications. For best results, apply DuPont FeXapan herbicide Plus VaporGrip Technology after some weed re-growth has occurred.

Application of this product postemergence and under stressful environments may cause temporary loss of turgor, a response commonly described as leaf droop in Roundup Ready 2 Xtend Soybeans. Typically, affected plants recover in 1-3 days depending on the level of droop and environmental conditions.

#### RESTRICTIONS:

- The combined total application rate from crop emergence up to R1 must not exceed 44 fluid ounces (1.0 lb. a.e. dicamba) per acre.
- The maximum single, in-crop application rate must not exceed 22 fluid ounces (0.5 lb. a.e. dicamba) per acre.
- The combined total per year for all applications must not exceed 88 fluid ounces (2.0 lb. a.e. dicamba) per acre.
- Allow at least 7 days between final application and harvest or feeding of soybean forage.
- Allow at least 14 days between final application and harvest or feeding of soybean hay.

#### WEED RESISTANCE MANAGEMENT



Some naturally occurring weed biotypes that are tolerant (resistant) to dicamba may exist due to genetic variability in a weed population. Where resistant biotypes exist, the repeated use of herbicides with the same sites of action can lead to the selection for resistant weeds. Certain agronomic practices can delay or reduce the likelihood that resistant weed populations will develop and can be utilized to manage weed resistance once it occurs.

Do not use less than 22 fluid ounces per acre (0.5 lb a.e./A) of this product in a single application. Using the appropriate application rate can minimize the selection for resistant 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 management of the weed resistance program; therefore, it is very important to perform the following actions.

To aid in the prevention of developing weeds resistant to this product, the following steps should be followed where practical:

- Scout fields before application to ensure herbicides and rates will be appropriate for the weed species and weed sizes present.
- Apply full rates DuPont FeXapan herbicide Plus VaporGrip Technology for the most difficult to control weed 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 weed species.
- Report any incidence of non-performance of this product against a particular weed species to your DuPont retailer, representative or call 1-888-6-DUPONT.
- If resistance is suspected, treat weed escapes with a herbicide having a site of action other than Group 4 and/or use non-chemical methods to remove escapes, as practical, with the goal of preventing further seed production.

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 4 herbicides.
  - Avoid making more than two applications of dicamba and any other Group 4 herbicides within a single growing season unless mixed with another mechanism 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.
- 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.

Contact the local agricultural extension service, DuPont representative, agricultural retailer or crop consultant for further guidance on weed control practices as needed.

Method

[Broadcast](#)

Rates

[field rates 0](#)

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Restricted Entry Interval

24 hours

Timings

[At-Plant](#)

[Postemergence \(Crop\)](#)

[Preemergence \(Crop\)](#)

[Preplant](#)

[Postplant](#)