



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Registration Division (7505P)
1200 Pennsylvania Ave., N.W.
Washington, D.C. 20460

EPA Reg. Number:

352-921

Date of Issuance:

6/24/16

NOTICE OF PESTICIDE:

Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Dupont GR2 Herbicide

Name and Address of Registrant (include ZIP Code):

Richard J. Ambrose
Product Registration Manager
E.I. DuPont de Nemours and Company
Stine-Haskell Research Center
P.O. Box 30
Newark, DE 19714-0030

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. 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.

Signature of Approving Official:

Heather Garvie, Product Manager 24
Fungicide & Herbicide Branch, Registration Division (7505P)

Date:

6/24/16

2. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, “EPA Reg. No. 352-921.”
3. Submit one copy of the revised final printed label for the record before you release the product for shipment.

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 the Federal Insecticide Fungicide and Rodenticide Act 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.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 05/20/2016

If you have any questions, please contact Lisa Pahel by phone at (703) 347-0459, or via email at pahel.lisa@epa.gov

Enclosure



DuPont™ GR2

HERBICIDE

GROUP 2 HERBICIDE

For postemergent control of annual grass and broadleaf weeds in spring and winter wheat (including durum), and triticale.

Dispersible Granules

Active Ingredients

By Weight

pyroxsulam: N-(5,7-dimethoxy[1,2,4]triazolo[1,5-a]pyrimidin-2-yl)-2-methoxy-4-(trifluoromethyl)-3-pyridinesulfonamide 21.5%

Other Ingredients 78.5%

TOTAL 100.0%

Contains 0.215 lb of active ingredient per pound of product.

EPA Reg. No. 352-XXX

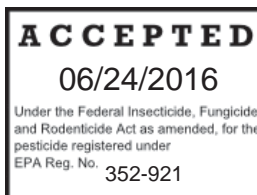
Nonrefillable Container

Net: _____

OR

Refillable Container

Net: _____



EPA Est. No. _____

KEEP OUT OF REACH OF CHILDREN CAUTION

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 swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor. Do not give anything to an unconscious person.

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. Call a poison control center or doctor for treatment advice.

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 CAUTION

Harmful If Swallowed · Causes Moderate Eye Irritation

Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Wear protective eyewear, long sleeved shirt and long pants, socks and shoes.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, applicators, and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks.

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 STATEMENT

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 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

Important: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "Applicators and Other Handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

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 PPE 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

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 disposing of equipment washwater or rinsate.

This product may contaminate surface water due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow groundwater.

This product is classified as having high potential for runoff for several days after application. A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from runoff of rainwater. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

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.

DuPont™ GR2 herbicide, referred to below as DuPont™ GR2 or GR2 herbicide, must be used only in accordance with instructions on this label, in separately published DuPont instructions (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.

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 the label about personal protective equipment, restricted-entry interval, and notification to workers (as applicable). The requirements in this box 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 into 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, wear:

- ◆ Coveralls
- ◆ Chemical resistant gloves made of any waterproof material
- ◆ Shoes plus socks

PRODUCT INFORMATION

Use GR2 herbicide as a postemergence herbicide for the control of annual grass and broadleaf weeds in spring and winter wheat (including durum), and triticale.

BIOLOGICAL ACTIVITY

GR2 herbicide rapidly stops growth of susceptible weeds. However, typical symptoms (discoloration) of controlled or suppressed weeds may not be noticeable for 1 to 2 weeks after application, depending upon growing conditions and weed susceptibility. Degree of control and duration of effect are dependent upon weed sensitivity, weed size, crop competition, growing conditions at and following treatment, and spray coverage.

USE RESTRICTIONS

When applying this product in tank mix combination, follow all applicable use directions, precautions, and limitations on each manufacturer's label.

- **Chemigation:** Do not apply this product through any type of irrigation system.
- Do not apply GR2 herbicide directly to, or otherwise permit it to come into direct contact with, susceptible crops or desirable plants including alfalfa, barley, canola, beans, cotton, flowers, grapes, lettuce, lentils, mustard, oats, peas, potatoes, radishes,

soybeans, sugar beets, sunflowers, tobacco, tomatoes, vegetables, or other desirable broadleaf crops or ornamental plants. Do not permit spray mists containing DuPont™ GR2 herbicide to drift onto such plants.

- Do not apply to crops underseeded with legumes.

USE PRECAUTIONS

- Calibrate sprayers only with clean water away from the well site.
- Make scheduled checks of spray equipment. Ensure that all operation employees accurately measure pesticides.
- Mix only enough product for the job at hand. and avoid overfilling of spray tank.
- When triple-rinsing the pesticide container, be sure to add the rinsate to the spray mix.
- Thoroughly clean GR2 herbicide from application equipment immediately after use and prior to spraying crops.
- Failure to remove even small amounts of GR2 herbicide from application equipment may result in injury to subsequently sprayed crops.
- Keep from contact with fertilizers, insecticides, fungicides and seeds during storage.
- Avoid storage of pesticides near well sites.

WEED RESISTANCE

GR2 herbicide, which contains the active ingredient pyroxsulam, is a Group 2 herbicide based on the mode of action classification system of the Weed Science Society of America.

When herbicides with mode of action classifications that affect the same biological sites of action are used repeatedly over several years to control the same weed species in the same treatment area, naturally-occurring resistant biotypes may survive a correctly applied herbicide treatment, propagate, and become dominant in that area. Adequate control of these resistant weed biotypes cannot be expected. If weed control is unsatisfactory, it may be necessary to retreat the problem area using a product affecting a different biological site of action.

To better manage herbicide resistance through delaying the proliferation and possible dominance of herbicide resistant weed biotypes, it may be necessary to change cultural practices within and between crop seasons such as using a combination of tillage, retreatment, tank-mix partners and/or sequential herbicide applications that have a different site of action. Weed escapes that are allowed to go to seed will promote the spread of resistant biotypes.

It is advisable to keep accurate records of pesticides applied to individual fields to help obtain information on the spread and dispersal of resistant biotypes. Consult your agricultural dealer, consultant, applicator, and/or appropriate state agricultural extension service representative to determine appropriate actions for treating specific resistant weed biotypes in your area.

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 INFORMATION

Application Timing

Apply GR2 herbicide postemergence to the main flush of actively growing weeds according to the target weed stage shown in the above table. Extreme growing conditions such as drought, temperatures near or below freezing prior to, at, or following time of application may reduce weed control and increase the risk of crop injury at all stages of growth. Warm, moist growing conditions promote active weed growth and enhance the activity of GR2 herbicide by allowing maximum foliar uptake and contact activity. Weeds hardened off by cold weather or drought stress may not be adequately controlled or suppressed and re-growth may occur. For best results, ensure thorough spray coverage of target weeds. If foliage is wet at the time of application, control may be decreased. Applications of GR2 herbicide are rainfast within 4 hours after application.

Spray Coverage

Use sufficient spray volume to provide thorough coverage and a uniform spray pattern. Do not broadcast apply in less than 5 gallons of total spray volume per acre. For best results and to minimize spray drift, apply in a spray volume of 10 gallons or more per acre. As vegetative canopy and weed density increase, increase spray volume to obtain equivalent weed control. Use only nozzle types and spray equipment designed for herbicide application. To reduce spray drift, follow precautions under Avoiding Injurious Spray Drift.

Surfactants and Adjuvants

When GR2 herbicide is applied alone, use one of the following surfactants or adjuvants: · Non-ionic surfactant with at least 80% active ingredient at 0.25% to 0.50% v/v (1 to 2 quarts per 100 gallons of spray solution); for best results under dry or low humidity environments, use a rate of 0.50% v/v. Addition of spray quality urea ammonium nitrogen fertilizer (28-0-0 to 32-0-0

at 1 to 2 quarts per acre) or ammonium sulfate fertilizer (21-0-0-24 at 1.5 to 3 lb per acre) may be added to non-ionic surfactant to enhance control.

· Crop oil concentrate adjuvant at 1.0 to 1.25% v/v (1 to 1.25 gallons per 100 gallons of spray solution) Potential for crop response is increased with the use of oil adjuvants versus non-ionic surfactants. Do not use oil adjuvants with spray solutions containing nitrogen fertilizer.

When DuPont™ GR2 herbicide is applied in combination with emulsifiable concentrate (EC) formulations, such as 2,4-D ester, MCPA ester, Starane or bromoxynil+MCPA products, do not use an adjuvant.

Do not use additives that lower the spray solution below a pH of 6.0.

Application in Fluid Fertilizer

GR2 herbicide may be applied in spray solutions containing liquid nitrogen fertilizer. The spray solution should not be composed of more than 50% liquid nitrogen fertilizer and should not exceed 30 lb of actual nitrogen per acre. When GR2 herbicide is applied in spray solutions containing liquid nitrogen fertilizer, use a non-ionic surfactant at a maximum of 0.25% v/v instead of crop oil concentrate or methylated seed oil. Temporary crop injury may result when liquid nitrogen fertilizer is used as the spray carrier. Foliar applied liquid nitrogen fertilizer may cause foliar leaf burn, yellowing or reduced growth due to the activity of the liquid fertilizer on the crop.

Spring and Winter Wheat (including Durum), and Triticale

Apply 1 oz of GR2 herbicide per acre in spring to actively growing spring or winter wheat and triticale from the 3-leaf to jointing stage (Zadoks scale 31) according to the application timings shown in the table entitled Weeds Controlled (C) or Suppressed (S). Treat after the majority of weeds have emerged. Best results are obtained when application is made to weeds that are actively growing. Occasionally, slight yellowing or height reduction may be observed in the treated crop. These transient symptoms disappear within 14 days with no reduction to yield. Do not apply to crops suffering from drought, water-logged soils, nutrient deficiency or exposed to frost or other agronomic factors affecting plant growth. Do not use on wheat or triticale varieties that are sensitive to ALS herbicides.

An independent liquid ammonium nitrogen fertilizer application made 7 days before or after an application of GR2 herbicide may result in transient leaf burn or stunting. Do not make a liquid fertilizer application during this period unless the risk of crop response is acceptable.

Tank Mixtures:

GR2 herbicide may be applied in tank mix combination with labeled rates of other products registered for postemergence application in spring and winter wheat or triticale. See Tank Mixing Precautions under Mixing Directions. When tank mixing, do not exceed specified application rates and use only in accordance with the most restrictive precautions and limitations on the respective product labels.

Crop Specific Use Restrictions:

- Preharvest Interval: Do not apply within 60 days of harvest.
- Do not apply more than 1 oz of GR2 herbicide per acre per year (0.215 oz of active ingredient per acre per year).
- Do not graze the treated crop within 7 days following application.
- Do not cut the treated crop for hay within 28 days following application.
- Do not apply a product containing organophosphates for five days before or five days after an application of GR2 herbicide.

Avoiding Injurious Spray Drift

This product can affect broadleaf plants directly through foliage and indirectly by root uptake from treated soil. Do not apply GR2 herbicide directly to, or allow spray drift to come into contact with, broadleaf crops including alfalfa, barley, canola, beans, cotton, flowers, grapes, lettuce, lentils, mustard, oats, peas, potatoes, radishes, soybeans, sugar beets, sunflowers, tobacco, tomatoes, vegetables, or other desirable broadleaf crops or ornamental plants or soil where sensitive crops will be planted the same season. (See Crop Rotation Intervals section.)

Make applications only when there is little or no hazard from spray drift. Very small quantities of spray, which may not be visible, may seriously injure crops, whether dormant or actively growing. When applying GR2 herbicide, use low pressure equipment capable of producing sprays of uniform droplet size with a minimum of fine spray droplets. Under adverse weather conditions, fine spray droplets that do not settle rapidly onto target vegetation may be carried a considerable distance from the treatment area. A drift control or spray thickening agent may be used with this product to improve spray deposition and minimize the potential for spray drift. If used, follow all use directions and precautions on the product label.

Ground Applications: To minimize spray drift, apply GR2 herbicide in a total spray volume of 10 gallons or more per acre using spray equipment designed to produce large droplet, low pressure sprays. Refer to the spray equipment manufacturer's directions for detailed information on nozzle types, arrangement, spacing and operating height and pressure. Apply spot treatments only with a calibrated boom to prevent over application. Operate equipment at spray pressures no greater than is necessary to produce a uniform spray pattern. Operate the spray boom no higher than is necessary to produce a uniformly overlapping pattern between spray nozzles. Do not apply with hollow cone-type insecticide nozzles or other nozzles that produce a fine-droplet spray.

Aerial Application: To minimize spray drift, apply DuPont™ GR2 herbicide in a total spray volume of 5 gallons or more per acre. Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Avoid applications below 2 mph due to variable wind direction and high potential for temperature inversion. Minimize spray drift from aerial applications by applying a coarse spray at spray boom pressure no greater than 30 psi; by using straight-stream nozzles directed straight back; and by using a spray boom no longer than 3/4 of the rotor or wing span of the aircraft. Evaluate spray pattern and droplet size distribution by applying sprays containing a water-soluble dye marker or appropriate drift control agents over a paper tape (adding machine tape). Mechanical flagging devices may also be used.

Do not apply under conditions of a low level air temperature inversion. A temperature inversion is characterized by little or no wind and lower air temperature near the ground than at higher levels. The behavior of smoke generated by an aircraft-mounted device or continuous smoke column released at or near site of application will indicate the direction and velocity of air movement. A temperature inversion is indicated by layering of smoke at some level above the ground and little or no lateral movement.

Spray Drift Management

Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target drift movement from aerial applications:

- ◆ The distance of the outer most operating nozzles on the boom must not exceed 75% of wingspan or 90% of rotor diameter.
- ◆ Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.

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

The applicator should be familiar with and take into account the information covered in the following Aerial Drift Reduction Advisory. (This information is advisory in nature and does not supersede mandatory label requirements.)

Aerial Drift Reduction Advisory

Information on Droplet Size: The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage and control. 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).

Controlling Droplet Size:

- ◆ **Volume** - Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows produce larger droplets.
- ◆ **Pressure** - Do not exceed the nozzle manufacturer's specified pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.
- ◆ **Number of Nozzles** - Use the minimum number of nozzles that provide uniform coverage.
- ◆ **Nozzle Orientation** - Orienting nozzles so that the spray is released parallel to the air stream produces larger droplets than other orientations. Significant deflection from horizontal will reduce droplet size and increase drift potential.
- ◆ **Nozzle Type** - Use a nozzle type that is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce the largest droplets and the lowest drift.

Boom Length: For some use patterns, reducing the effective boom length to less than 75% of the wingspan or 90% of rotor length may further reduce drift without reducing swath width.

Application Height: Do not make applications at a height greater than 10 feet above the top of the largest plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment: When applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller drops, etc.).

Wind: Drift potential is lowest between wind speeds of 2 to 10 mph. However, many factors, including droplet size and equipment type, determine drift potential at any given speed. Avoid making applications below 2 mph due to variable wind direction and high inversion potential. **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: When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions: Do not apply during a local, low level temperature inversion because drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures 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. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of the smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas: Apply the pesticide only when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g., when wind is blowing away from the sensitive areas).

CROP ROTATION INTERVALS

The following rotational crops may be planted at the indicated interval following application of DuPont™ GR2 herbicide.

Crop Rotation Intervals for All States Except Idaho, Oregon, and Washington

Superscripted numbers refer to Crop Specific Rotation Information.

Crop	Rotation Interval (Months) ¹
wheat, triticale	1
soybean ²	5
barley, field corn, grasses, millet, oats, popcorn, seed corn, sweet corn, grain sorghum ⁴ , sunflower ⁴	9
alfalfa, camelina, canola, chickpea, cotton ³ , dry bean, pea (dry and succulent), flax, lentil, mustard, peanuts, potato, safflower, sugar beet, sunflower	
other crops not listed	12

Crop Specific Rotation Information:

¹Minimum number of months that must elapse before planting other crops after application of GR2 herbicide.

²As a rotation crop, soybeans may be planted 3 months following an application of GR2 herbicide in February or later in the following states: Alabama, Arkansas, Delaware, Georgia, Illinois, Indiana, Kansas, Kentucky, Louisiana, Maryland, Missouri, Mississippi, North Carolina, Nebraska, New Jersey, Ohio, Oklahoma, Pennsylvania, South Carolina, Tennessee, Texas and Virginia. However, to ensure adequate crop safety, avoid planting soybeans prior to April 30 following an application of GR2 herbicide made before February. All other states not listed require a minimum rotation interval of 5 months after an application of GR2 herbicide.

³As a rotation crop, cotton may be planted 3 months following an application of GR2 herbicide in February or later in the following states: Alabama, Arkansas, Georgia, Kansas, Kentucky, Louisiana, Missouri, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia. However, to ensure adequate crop safety, avoid planting cotton prior to April 30 following an application of GR2 herbicide made before February. All other states not listed require a minimum rotation interval of 9 months after an application of GR2 herbicide.

As a rotation crop, grain sorghum and sunflowers may be planted 3 months following an application of GR2 herbicide in February or later in the following states: Alabama, Arkansas, Colorado, Delaware, Georgia, Illinois, Indiana, Kansas, Kentucky, Louisiana, Maryland, Missouri, Mississippi, North Carolina, Nebraska, New Jersey, Ohio, Oklahoma, Pennsylvania, South Carolina, Tennessee, Texas, and Virginia. However, to ensure adequate crop safety, avoid planting sunflowers and grain sorghum prior to April 30 following an application of GR2 herbicide made before February. All other states not listed require a minimum rotation interval of 9 months after an application of GR2 herbicide.

Crop Rotation Intervals for Idaho, Oregon, and Washington

Superscripted numbers refer to Crop Specific Rotation Information.

Crop	Rotation Interval (Months) ¹	
	Soil pH >6 and Rainfall ² >16 Inches	Soil pH <6 or Rainfall ² <16 Inches
wheat, triticale	1	1
barley, field corn, grasses, millet, oats, popcorn, seed corn, sweet corn, grain sorghum	10	10
alfalfa, camelina, canola, cotton, dry bean, flax, mustard, peanuts, safflower, soybean, sugar beet, sunflower		
pulse crops ³ including chickpea, lentil, and pea (dry and succulent), potato ³		18
other crops not listed	12	

Crop Specific Rotation Information:

¹Minimum number of months that must elapse before planting other crops after application of DuPont™ GR2 herbicide.

²Including irrigation.

³Pulse crops, including chickpea, lentil, and pea (dry and succulent), and potatoes may be planted 10 months after application if the soil pH is uniformly 6 or greater AND total rainfall (including irrigation) during the interval is greater than 16 inches. If the soil pH is less than 6 OR total rainfall (including irrigation) is less than 16 inches, then the rotation interval is 18 months.

Note: GR2 herbicide is degraded primarily by microbial activity and breaks down more rapidly under favorable soil moisture and temperature conditions. Correspondingly, the rate of degradation may be slower under extreme conditions of drought or cold temperatures. When soil moisture conditions are abnormally dry during the interval between an application of GR2 herbicide and planting the next crop, conduct a field bioassay by planting test strips of the desired rotational crop. Monitor the test strips during germination and emergence for any abnormal growth to determine if the rotational crop can be grown successfully.

Mixing Directions

GR2 herbicide - Alone

1. Fill the tank with 1/2 of the total amount of water.
2. Start agitation.
3. Add the required amount of GR2 herbicide.
4. Add the required amount of adjuvant (refer to Adjuvants section).
5. Continue agitation while filling the spray tank to the required volume.
6. To ensure a uniform spray mixture, continuous agitation is required during application. If product is allowed to settle, thoroughly agitate to resuspend the mixture before spraying. Apply mixture immediately after it is prepared.

GR2 herbicide - Tank Mix

If a broader spectrum of weed control is needed, GR2 herbicide may be tank mixed with labeled rates of other herbicides provided (1) the tank mix product is labeled for the timing and method of application for the use site to be treated; and (2) tank mixing is not prohibited by the label of the tank mix product.

Tank Mixing Precautions:

- ◆ Read carefully and follow all applicable use directions, precautions, and limitations on the respective product labels.
- ◆ Always perform a (jar) test to ensure the compatibility of products to be used in tank mixture.

Tank Mixing Restrictions:

- ◆ Do not mix with products containing dicamba or amine formulations of 2,4-D or MCPA as these products may reduce grass control provided by GR2 herbicide.
- ◆ Do not tank mix with organophosphate insecticides as these mixtures may result in unacceptable crop injury.
- ◆ Do not exceed specified application rates for respective products or maximum allowable application rates for any active ingredient in the tank mix.

Tank Mix Compatibility Testing: Perform a jar test prior to tank mixing to ensure compatibility of GR2 herbicide and other pesticides. 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, jels, oily films or layers, or other precipitates, it is not compatible and the tank mix combination should not be used. Vigorous, continuous agitation during mixing, filling and throughout application is required for all tank mixes. Sparger pipe agitators generally provide the most effective agitation in spray tanks. To prevent foaming in the spray tank, avoid stirring or splashing air into the spray mixture.

Mixing Order for Tank Mixes:

1. Fill the spray tank to 3/4 of the total spray volume required with water.
2. Start agitation.
3. Add DuPont™ GR2 herbicide and agitate for 2 to 3 minutes
4. After adding GR2 herbicide, add different formulation types in the following order: (1) dry flowables; (2) wettable powders; (3) aqueous suspensions, flowables and liquids. Maintain agitation and add: (4) emulsifiable concentrates; (5) solutions; and (6) adjuvants. Allow time for complete mixing and dispersion after each addition.
5. Finish filling the spray tank. Maintain continuous agitation during mixing and throughout application. If product is allowed to settle, thoroughly agitate to resuspend the mixture before spraying. Apply mixture immediately after it is prepared.

If application or agitation must be stopped before the spray tank is empty, the materials may settle to the bottom. Settled materials must be resuspended before spraying is resumed. A sparger agitator is particularly useful for this purpose. Settled material may be more difficult to resuspend than when originally mixed.

Clean-Out Procedures for Spray Equipment

1. Drain any remaining spray mixture from the application equipment.
2. Hose down the interior surfaces of the tank while filling the tank 1/2 full of water.
3. Add commercial tank cleaner, such as household ammonia at a rate of 1 gallon per 100 gallons of water. Recirculate for 5 minutes and spray out part of this mixture for 5 minutes through the boom. Drain tank.
4. Remove all spray nozzles and screens and clean separately.
5. If spray equipment will be used for pesticide application to crops sensitive to GR2 herbicide, repeat steps 1 through 3. Additional steps may be required to remove all traces of GR2 herbicide including replacing hoses or other fittings that may contain adsorbed actives.
6. Thoroughly clean exterior surfaces of spray equipment.

Note: Rinsate may be disposed of on site according to label use directions or at an approved waste disposal facility.

WEEDS CONTROLLED (C) OR SUPPRESSED (S)

Best results are obtained when grass weeds are treated at the 2-leaf to 2-tiller stage of growth and before broadleaf weeds are larger than 2 inches tall or 2 inches in diameter. Best control is achieved when applications are made to actively growing weeds. Control may be reduced when weeds are exposed to drought or extreme temperatures. DuPont™ GR2 herbicide will not control known ALS (Group 2) resistant biotypes of labeled weeds.

Common name Grass Weeds	Scientific Name	
barley, foxtail	<i>Hordeum jubatum</i>	S
barnyardgrass	<i>Echinochloa crus-galli</i>	C
blackgrass	<i>Alopecurus myosuroides</i>	C
bluegrass, bulbous	<i>Poa bulbosa</i>	C
brome, downy	<i>Bromus tectorum</i>	S
brome, Japanese	<i>Bromus japonicus</i>	C
brome, ripgut	<i>Bromus diandrus</i>	C
canarygrass, hood	<i>Phalaris paradoxa</i>	S
canarygrass, littleseed	<i>Phalaris minor</i>	S
cheat	<i>Bromus secalinus</i>	C
chess, hairy	<i>Bromus commutatus</i>	C
corn, volunteer	<i>Zea mays</i>	C
darnel, Persian	<i>Lolium persicum</i>	C ⁴
fescue, rattail	<i>Vulpia Myuros</i>	S
foxtail, green	<i>Setaria viridis</i>	S
foxtail, yellow	<i>Setaria pumila</i>	C ⁴
oat, wild	<i>Avena fatua</i>	C
quackgrass	<i>Elymus repens</i>	S
rescuegrass	<i>Bromus catharticus</i>	S
ryegrass, Italian	<i>Lolium perenne</i>	C
windgrass	<i>Apera spica-venti</i>	C

Broadleaf Weeds		
bedstraw, catchweed (cleavers)	<i>Galium aparine</i>	C
bittercress, hairy	<i>Cardamine hirsuta L.</i>	C
buckwheat, wild	<i>Polygonum convolvulus</i>	S
burclover, spotted	<i>Medicago arabica</i>	C
buttercup, smallflower	<i>Ranunculus abortivus L.</i>	C
canola, volunteer (wild turnip) ²	<i>Rapistrum rugosum</i>	C
chickweed, common	<i>Stellaria media</i>	C
chickweed, mouseear	<i>Cerastium fontanum</i>	C
clover, white	<i>Trifolium repens L</i>	C
coreopsis, plains	<i>Coreopsis tinctoria Nutt.</i>	S
evening-primrose, cutleaf	<i>Oenothera laciniata Hill</i>	S
falseflax, smallseed ¹	<i>Camelina microcarpa</i>	C
fiddleneck, coast	<i>Amsinckia intermedia</i>	C
Flixweed ¹	<i>Descurainia sophia</i>	C
geranium, Carolina	<i>Geranium carolinianum L.</i>	C
gromwell, corn	<i>Buglossoides arvensis</i>	C
hempnettle, common	<i>Galeopsis tetrahit</i>	C
henbit	<i>Lamium amplexicaule</i>	S
lambsquarters, common	<i>Chenopodium album</i>	C ³
mustard, black	<i>Brassica nigra</i>	C
mustard, blue ¹	<i>Chorispora tenella</i>	C
mustard, tumble ¹	<i>Sisymbrium altissimum</i>	C
mustard, wild	<i>Sinapis arvensis</i>	C
mustard, wormseed ¹	<i>Erysimum cheiranthoides</i>	C
pennycress, field ¹	<i>Thlaspi arvense</i>	C
pepperweed, Virginia	<i>Lepidium virginicum</i>	C
pigweed, redroot	<i>Amaranthus retroflexus</i>	C
shepherd's-purse ¹	<i>Capsella bursa-pastoris</i>	C
smartweed, annual	<i>Polygonum sp.</i>	C
tansymustard, pinnate ¹	<i>Descurainia pinnata</i>	C
thistle, Russian	<i>Salsola tragus</i>	C ³
vetch, hairy	<i>Vicia villosa Roth</i>	C
wallflower, bushy ¹	<i>Erysimum repandum</i>	C

¹Control may be reduced when application is made after bolting

²Including herbicide-tolerant canola varieties except Clearfield (imidazolinone-tolerant) canola.

³Less than 2 inches tall. For control of lambsquarters over 2 inches tall, tank mix with 0.25 lb ae 2,4-D ester or MCPA ester. For control of Russian thistle over 2 inches tall, tank mix with 0.25 lb ae 2,4-D ester.

⁴One to four-leaf stage of growth.

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.

Pesticide 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 Plastic and Metal Containers (Capacity Equal to or Less Than 50 Pounds): 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 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 Plastic and Metal Containers (Capacity Greater Than 50 Pounds): 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 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.

Nonrefillable Paper or Plastic Bags, Fiber Sacks including Flexible Intermediate Bulk Containers (FIBC) or Fiber Drums With Liners: Nonrefillable container. Do not reuse or refill this container. Completely empty paper or plastic bag, fiber sack or drum liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer for recycling if available or dispose of empty paper or plastic bag, fiber sack or fiber drum and liner in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

Refillable Fiber Drums With Liners: Refillable container (fiber drum only). Refilling Fiber Drum: Refill this fiber drum with DuPont™ GR2 herbicide containing pyroxsulam only. Do not reuse this fiber drum for any other purpose. Cleaning before refilling is the responsibility of the refiller. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Disposing of Fiber Drum and/or Liner: Do not reuse this fiber drum for any other purpose other than refilling (see preceding). Cleaning the container (liner and/or fiber drum) before final disposal is the responsibility of the person disposing of the container. Offer the liner for recycling if available or dispose of liner in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances. If drum is contaminated and cannot be reused, dispose of it in the manner required for its liner. To clean the fiber drum before final disposal, completely empty the fiber drum by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application or manufacturing equipment. Then offer the fiber drum for recycling if available or dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinances.

All Other Refillable Containers: Refillable container. Refilling Container: Refill this container with DuPont™ GR2 herbicide containing pyroxsulam 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 the 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.

Outer Foil Pouches of Water Soluble Packets (WSP): Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or, dispose of the empty outer foil pouch in the trash as long as WSP is unbroken. If the outer pouch contacts the formulated product in any way, the pouch must be triple rinsed with clean water. Add the rinsate to the spray tank and dispose of the outer pouch as described previously. Do not transport if this 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.

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