

228-627

12-18-2009

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

DEC 18 2009

Ms. Lizbeth Rea  
Regulatory Manager  
Nufarm Americas Inc.  
150 Harvester Drive, Ste 200  
Burr Ridge, IL 60527

RE: Notification of Primary Brand Name to: Nufarm Imazethapyr SPC Herbicide  
EPA Registration Number: 228-627  
Date of Submission: November 6, 2009

Dear Ms. Rea:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated, November 6, 2009, for the above mentioned product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the actions requested fall within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please me directly at 703-305-6249 or Joyce Edwards of my staff at 703-308-5479.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda Arrington".

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs

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United States  
Environmental Protection Agency  
Washington, DC 20460

Registration  
 Amendment  
 Other

OPP Identifier Number

**Application for Pesticide - Section I**

1. Company/Product Number 228-627	2. EPA Product Manager Jim Tompkins	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Nufarm Imazethapyr Pro Herbicide	PM# 25	
5. Name and Address of Applicant (Include ZIP Code) Nufarm Americas, Inc. 150 Harvester Drive, Ste. 200 Burr Ridge, IL 60527  <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____	

**Section - II**

Amendment - Explain below.  Final printed labels in response to Agency letter dated \_\_\_\_\_

Resubmission in response to Agency letter dated \_\_\_\_\_  "Me Too" Application.

Notification - Explain below.  Other - Explain below.

**NOTIFICATION**  
**DEC 18 2009**

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Notification of a primary brand name change (Nufarm Imazethapyr SPC Herbicide) per PRN 98-10. This notification is consistent with the provisions of PRN 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if this notification is not consistent with the terms of PRN 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 FIFRA.

**Section - III**

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Unit Packaging wgt.      No. per container	If "Yes" Package wgt      No. per container

3. Location of Net Contents Information  
 Label  Container

4. Size(s) Retail Container  
6 x 4 oz; 4 x 1 pint

5. Location of Label Directions  
 On Label  
 On Labeling accompanying product

6. Manner in Which Label is Affixed to Product  
 Lithograph  
 Paper glued  
 Stenciled  Other \_\_\_\_\_

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Lizbeth Rea	Title Regulatory Manager	Telephone No. (Include Area Code) 919/655-0701
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**Certification**  
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2. Signature 	3. Title Regulatory Manager	6. Date Application Received (Stamped)
4. Typed Name Lizbeth Rea	5. Date 11/06/2009	





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**Nufarm Americas, Inc.**  
 150 Harvester Drive, Suite 200  
 Burr Ridge, IL 60527  
 Phone: 630.455.2000 Fax: 630.455.2001  
 www.us.nufarm.com

November 6, 2009

Via Overnight Courier

Linda Arrington  
 Document Processing Desk (NOTIF)  
 Office of Pesticide Programs (7504P)  
 U. S. Environmental Protection Agency  
 Room 5-4900, One Potomac Yard  
 2777 S. Crystal Drive  
 Arlington, VA 22202-4501

Subject: Nufarm Imazethapyr Pro Herbicide  
 EPA Reg. No. 228-627  
 PBN Change: Nufarm Imazethapyr SPC Herbicide

Dear Ms. Arrington:

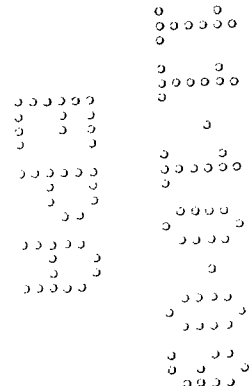
The following documents are attached in support of the primary brand name change being made via notification under PR Notices 98-10 (Notifications, Non-Notifications and Minor Formulation Amendments). In an effort to assist EPA in their directive to replace "Pro" in the name of products, we've changed the primary brand name of the subject product from Nufarm Imazethapyr Pro Herbicide to Nufarm Imazethapyr SPC Herbicide.

- Application for a New Product Registration (EPA Form 8570-1)
- Certification With Respect to Label Integrity form for electronic submission of the label.
- One (1) copy of the Nufarm Imazethapyr Pro Herbicide label with changes tracked.
- Five (5) copies of the Nufarm Imazethapyr SPC Herbicide label with changes incorporated.

Please call me at 919/655-0701 if you have any questions and/or comments regarding this submission.

Sincerely,

Lizbeth Rea  
 Regulatory Manager  
 Nufarm Americas Inc.





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**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**CAUTION/PRECAUCION**

Harmful if inhaled or absorbed through skin. Avoid breathing spray mist. Avoid contact with skin, eyes or clothing.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemically resistant to this product are listed below. If you want more options, follow the instructions for Category A on an EPA chemical resistance category selection chart.

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Chemical resistant gloves such as butyl rubber ≥4 mils, or natural rubber ≥4 mils, or neoprene rubber ≥4 mils, or nitrile rubber ≥4 mils
- 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.

<b>User Safety Recommendations</b>	
Users should:	<ul style="list-style-type: none"> <li>• Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.</li> <li>• Remove clothing immediately, if pesticide gets inside. Then wash thoroughly and put on clean clothing.</li> <li>• 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.</li> </ul>

<b>FIRST AID</b>	
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-424-9300 for emergency medical treatment information.	

**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 washwaters.

**Groundwater Advisory and Proper Handling Instructions**

This chemical has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This product may not be mixed or loaded within 50 feet of any wells (including abandoned wells and drainage wells), sink holes, perennial or intermittent streams and rivers, and natural or impounded lakes or reservoirs. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly diked mixing/loading areas.

Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or washwater, and rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum, 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specific minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

Do not apply this product through any type of irrigation system.

This product must be used in a manner that will prevent back siphoning in wells, spills or improper disposal of excess pesticide spray mixture.

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**DIRECTIONS FOR USE**

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

All applicable directions, restrictions, precautions and Conditions of Sale and Limitation of Warranty and Liability are to be followed. This labeling must be in the user's possession during application.

Observe all precautions and limitations on this label and on the labels of products used in combination with this product. Do not use this product other than in accordance with the instructions on this label. The use of this product not in accordance with this label may result in crop injury. Keep containers closed to avoid spills and contamination.

**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), notification to workers, 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 4 hours. Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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 such as butyl rubber  $\geq 4$  mils, or natural rubber  $\geq 4$  mils, or neoprene rubber  $\geq 4$  mils, or nitrile rubber  $\geq 4$  mils
- Shoes plus socks

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### GENERAL INFORMATION

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This product kills weeds by root and/or foliage uptake and rapid translocation to the growing points. Adequate soil moisture is important for optimum product activity. This product will provide residual control of susceptible germinating weeds when adequate moisture is present; activity on established weeds will depend on the weed species and the location of its root system in the soil.

Temporary yellowing and/or internode shortening occasionally occurs following applications of this product. These effects occur infrequently and are temporary. Normal appearance and growth should resume within 1 to 2 weeks.

When organo-phosphate (such as Lorsban™ 1) or carbamate insecticides are tank-mixed with this product, temporary injury results to the treated crops.

When this product is used in accordance with label directions, it is expected to result in normal growth of rotational crops in most situations; however, various environmental and agronomic factors make it impossible to eliminate all risks associated with the use of this product and therefore, rotational crop injury is always a possibility. Under some conditions (such as heavy texture soil, high organic matter, low pH or low rainfall), this product causes injury to subsequent planted crops. Vegetable crops and particularly sugar beets are sensitive to residues of this product in the soil.

Naturally occurring biotypes\* of some of the weeds listed on this label are not be effectively controlled by this and/or other products with either the ALS/AHAS enzyme inhibiting mode of action. Other herbicides with the ALS/AHAS enzyme inhibiting mode of action include the sulfonylureas (e.g., Accent®, Basis®, Classic®, Harmony® GT, Spirit™, Permit®, etc.), the sulfonamides (e.g., FirstRate™, etc.) and the pyrimidyl benzoates (e.g. Staple®, etc.). If naturally occurring ALS/AHAS resistant biotypes are present in a field, this product and/or any other ALS/AHAS enzyme inhibiting mode of action herbicide should be tank mixed or applied sequentially with an appropriate registered herbicide having a different mode of action to ensure control.

\*A weed biotype is a naturally occurring plant within a given species that has a slightly different, but distinct, genetic makeup from other plants.

Replanting: If replanting is necessary in a field previously treated with this product, replant the field to soybeans, peanuts or CLEARFIELD® corn (imidazolinone resistant/tolerant corn), lima beans or Southern peas. Rework the soil no deeper than the treated zone. Do not apply a second treatment of this product.

#### **CLEARFIELD® CORN**

Apply this product only on selected field corn hybrids (CLEARFIELD® corn) warranted by the seed company to possess resistance/tolerance to direct application of this product. Do not apply this product to corn hybrids that lack resistance/tolerance to this product. Contact your seed supplier, chemical dealer or Nufarm to obtain information regarding CLEARFIELD® corn hybrids.

Crops growing under stressful environmental conditions can exhibit various injury symptoms which are more pronounced if herbicides are used. Corn plants treated with this product sometimes exhibit yellowing on new growth. Such effects occur infrequently and are temporary. Normal growth and appearance should resume within 1 to 2 weeks.

#### **EDIBLE LEGUME VEGETABLES**

Reduced crop quality, growth, yield and/or delayed maturity results from an product application to edible legume vegetables. Since crop maturity is sometimes delayed, timing of harvest to be adjusted



accordingly. Do not apply this product if planting is delayed and chance of frost prior to maturity is likely.

Only use this product if proper agronomic practices have been utilized, including proper crop rotation, disease and insect management, good soil fertility, and tillage practices that eliminate compaction and hardpans. Plant lentils, lima beans and peas at least 1/2 inch deep to reduce risk of crop injury.

Do not apply this product postemergence after crop has begun to flower or crop injury will result. (Refer to specific legume vegetable crop for specific application timings specified). Do not apply this product if cold and/or wet conditions are present or are predicted to occur within one week of application.

**USE AREA RESTRICTIONS**

This product is not for sale or use on Long Island in New York State.

**MIXING INSTRUCTIONS**

Postemergence applications of this product require the addition of an adjuvant **and** a fertilizer solution.

**Note: Do not use fertilizer solutions in the state of California.**

**Adjuvants**

**Crop Oil Concentrate:** Use a vegetable seed or petroleum based oil concentrate. Use methylated seed oils when weeds are under moisture or temperature stress. Use methylated seed oils at the rate of 1.0% v/v (1 gallon per 100 gallons of spray solution), or use a crop oil concentrate at 1.25% v/v (1.25 gallons per 100 gallons of spray solution). **When making applications to edible legume vegetable crops, do not include a crop oil concentrate.**

**OR**

**Surfactants:** Use a non-ionic surfactant containing at least 80% active ingredient. Apply the surfactant at the rate of 0.25% v/v (1 quart per 100 gallons of spray solution). Use an organo-silicone surfactant or dry surfactant in place of a non-ionic surfactant.

**AND**

**(All States Except California)**

**Fertilizer Solution**

Apply nitrogen based liquid fertilizers (such as 28%N, 32%N or 10-34-0) at the rate of 1.25 to 2.5 gallons per 100 gallons of spray solution. Use the higher rate when weeds are under temperature or moisture stress. Instead of a liquid fertilizer, use spray grade ammonium sulfate at the rate of 12-15 lbs. per 100 gallons of spray solution.

**Note:** Fertilizer solution is not required in applications with this product in use areas south of interstate highway 40, except in the states of Texas, New Mexico and Oklahoma.

Fill the spray tank one-half full with clean water. Use a calibrated measuring device to measure the required amount of this product. Add this product to the spray tank while agitating. Add adjuvants and fill the remainder of the tank with water.

**TANK MIX COMBINATIONS WITH OTHER HERBICIDES**

If other herbicides are tank mixed with this product, add components in the following order, while agitating:

1. Fill the spray tank 1/2 full with clean water.
2. Add soluble packet products and thoroughly mix.
3. Add WP (wetttable powder), DG (dispersible granule), DF (dry flowable) or liquid flowable formulations not in soluble packets.
4. Add this product and mix thoroughly.

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5. Add other aqueous solution products.
6. Add EC (emulsifiable concentrate) products.
7. Add surfactant or crop oil to the spray tank.
8. Add liquid fertilizer.
9. While agitating, fill the remainder of the tank with water.

Drain and thoroughly clean spray equipment used for applications of this product before using to apply other products to avoid injury to sensitive crops. When this product is used in combination with another herbicide, refer to the respective product label for rates, methods of application, weeds controlled, proper timing, restrictions and precautions. Always use in accordance with the more restrictive label restrictions and precautions. No label dosages should be exceeded. This product cannot be mixed with any product bearing a label prohibiting such mixture.

### **SPRAYING INSTRUCTIONS**

Do not apply this product when wind velocity is greater than 10 mph, or when spray may be carried to sensitive crops. Sensitive crops include, but are not limited to, leafy vegetables and sugar beets.

### **GROUND APPLICATIONS**

Uniformly apply in 10 or more gallons of water per acre with properly calibrated ground equipment. Use a spray pressure of 20 to 40 psi.

Use a minimum of 20 gallons of water per acre when applying this product to minimum or no-till crops to ensure thorough coverage. Use higher gallonage for fields with dense vegetation or heavy crop residues. Adjust the boom height to ensure proper coverage of weed foliage (according to the manufacturer's instructions). Use only flat-fan nozzle tips for postemergence applications. Avoid overlaps when spraying.

### **APPLICATIONS WITH A LOW VOLUME SPRAYER**

Apply this product to soybeans with a low volume (Spra-Coupe type) sprayer. Spray the weeds before they reach the maximum size listed in this label when applying this product with a low volume sprayer. Adequate control of weeds is dependent upon good spray coverage of the weeds. The sprayer must be calibrated to deliver the specified spray volume and pressure to ensure adequate spray coverage of the weeds.

Apply a minimum of 10 gallons per acre of spray solution with a nozzle pressure between 40-60 psi for optimum coverage when applying this product with a low volume sprayer. When spraying combinations including Banvel® or dicamba containing products on CLEARFIELD® corn, do not exceed 40 psi sprayer pressure.

### **AERIAL APPLICATION**

Apply this product by air to crops listed in this label unless otherwise noted.

Uniformly apply with properly calibrated aerial equipment in 5 or more gallons of water per acre. When applied postemergence, the addition of a non-ionic surfactant and fertilizer solution are required for optimum weed control. Apply a non-ionic surfactant at the rate of 1 quart per 100 gallons of spray solution or a crop oil concentrate at the rate of 1.25 gallons per 100 gallons of spray solution and a liquid fertilizer at the rate of 1.25 gallons per 100 gallons of spray solution. (Refer to the APPLICATION INFORMATION – Postemergence section of this label).

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 to agricultural field crops. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed  $\frac{3}{4}$  the length of the wingspan or rotor.
2. Nozzles must always point backwards parallel with the air stream and never be pointed downwards more than 45 degrees.

Where states have more stringent regulations, they should be observed. The applicator should be familiar with and take into account the information covered in the **Aerial Drift Reduction Advisory Information** section below.

**Aerial Drift Reduction Advisory Information:**

**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. Increase water volume to at least 10 gallons of water per acre if grass foliage or crop canopy is dense.
- Pressure – Do not exceed the nozzle manufacturer’s specific 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 airstream produces larger droplets than other orientations and is the specified practice. 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  $\frac{3}{4}$  of the wingspan or rotor length may further reduce drift without reducing swath width.

**Application Height**

Applications should not be made 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 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided 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**

Applications should not occur during a 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 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**

The pesticide should only be applied 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).

The applicator is responsible for any loss or damage that results from spraying this product in a manner other than instructed in this label. In addition, the applicator must follow all applicable state and local regulations and ordinances in regard to spraying.

## **APPLICATION INFORMATION**

### **Postemergence**

This product is effective in controlling weeds in conservation tillage as well as in conventional production systems. Unless otherwise indicated, apply this product as an early postemergence treatment when weeds are actively growing and before they exceed a height of 3 inches. Delay application until the majority of the weeds are at the specified growth stage. Application timing should be based on weed size and not crop growth stage. Apply this product to crops and weeds that are actively growing.

An adjuvant (either a surfactant or a crop oil concentrate) and a nitrogen-based fertilizer must be added to the spray solution for optimum weed control activity. See the ADJUVANTS section under MIXING INSTRUCTIONS for additional information.

Absorption will occur through both the roots and foliage when this product is applied postemergence. Susceptible weeds stop growing and either die or are not competitive with the crop. This product not only controls many existing broadleaf and grass weeds when applied postemergence, it also provides control of susceptible weeds that emerge after application.

Cultivate 7-10 days following a postemergence application of this product for maximum weed control. This timely cultivation will enhance residual weed control, especially under dry conditions.

Apply this product a minimum of one hour before rainfall or overhead irrigation.

Unusually cool temperatures (50°F or less) reduce photosynthesis and transpiration and thus reduce uptake, translocation, and efficacy of this product in weeds. Delaying an application of this product for 48 hours from the time the temperature increases above 50°F, for 10 hours or more will improve weed control and reduce crop response.

### **NO-TILL/MINIMUM TILLAGE AND DOUBLE CROP SOYBEANS**

This product controls existing weeds and provides residual control of most weeds when applied early postemergence to CLEARFIELD® corn or soybeans in no-till or minimum tillage and double crop

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soybean production systems. Make the application either before or after emergence of the crop. (Refer to the WEEDS CONTROLLED POSTEMERGENCE chart for weeds controlled and specified weed size).

If this product is applied prior to emergence of the crop, and weeds exceed the specified size, a contact herbicide should be added to this product to enhance control. (Refer to the instructions for NO-TILL OR REDUCED TILLAGE under the PREEMERGENCE section of this label).

**SOIL APPLICATIONS**

This product provides effective weed control in conservation tillage systems designed to meet conservation compliance requirements. Apply this product as an early preplant, preplant incorporated, or preemergence treatment in soybeans. It can also be applied in conventional, minimum tillage and no-till production systems. The application method selected will depend on the anticipated weed spectrum and the preference of the applicator.

Adequate soil moisture is required for optimum activity. Rainfall or overhead irrigation is necessary to move this product into the weed germination zone. The amount of rainfall or irrigation required following application depends on existing soil moisture, soil texture and organic matter content. Sufficient water to moisten the soil to a depth of 2 inches is normally adequate. If adequate moisture is not received within 7 days after treatment, use a cultivation to control escaped weeds. When adequate moisture is received after dry conditions, this product will provide residual control of susceptible germinating weeds; activity on established weeds will depend on the weed species and the location of its root system in the soil.

This product controls weeds by root uptake and translocation to the growing points where it stops weed growth. If susceptible weeds emerge, growth will stop and the weeds will either die or are not competitive with the crop.

**SOIL APPLICATIONS WITH LIQUID FERTILIZERS**

Apply this product to the soil in liquid fertilizers, alone or in combination with Prowl® 3.3 EC or Outlook® to soybeans or CLEARFIELD® corn. Apply mixtures including trifluralin to soybeans only. Follow all product label instructions regarding incorporation, timing of application, special instructions and precautions. Apply treatments in 20 or more gallons of liquid fertilizer per acre with ground equipment. Always test the compatibility of this product with the liquid fertilizer before mixing in the spray tank.

**PREEMERGENCE (SURFACE APPLICATIONS)**

This product can be utilized in all production tillage systems. It can be applied prior to planting (up to 45 days prior to planting); at planting in conventional, reduced tillage or no-till production systems; or after planting and before crop emergence.

**NO-TILL OR REDUCED TILLAGE**

Apply product treatments before, during or after planting. Use a minimum of 20 gallons of water per acre to ensure thorough coverage. Use higher gallonage for fields with dense vegetation or heavy crop residues.

Use a tank mix of this product with Prowl® 3.3 EC or Outlook® for maximum grass control. To kill existing vegetation, tank mix Gramoxone® Extra, Roundup Ultra® or 2,4-D (early preplant – refer to the 2,4-D label used for limitations) with this product alone or in combination with Prowl® 3.3 EC or Outlook®. Do not add Gramoxone® Extra, Roundup Ultra® or 2,4-D to the tank mix if vegetation is absent at the time of application.

Note: Adjust planters to ensure adequate soil coverage of seed.

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**PREPLANT INCORPORATED APPLICATIONS**

Apply this product following land preparation and should be thoroughly incorporated to a depth of 1 to 2 inches. Apply and incorporate after bed formation using PTO-driven equipment or a rolling cultivator if crops are planted on beds. Maintain this product in the surface 1 to 2 inches of the finished beds. Make application up to 45 days prior to planting soybeans.

When this product is soil applied for control of nutsedge in peanuts, incorporate with two passes of the incorporation implement. Make the second pass at an offset angle to the first pass to minimize the potential for streaking.

**FEDERAL CONSERVATION RESERVE PROGRAM AND AGRICULTURAL RESERVE PROGRAM LAND SEEDED TO FORAGE LEGUME SPECIES AND PERENNIAL FORAGE GRASSES**

This product is effective in controlling many annual broadleaf and grass weeds in Conservation Reserve Programs and Agricultural Reserve Programs (Set-Aside) land seeded to forage legume or grass crops. An application of this product sometimes results in temporary reduction in growth of legumes and grasses. Plants overcome temporary effects and become well established due to reduced weed competition.

Do not graze or feed legumes or grasses following an application of this product. Do not cut treated legumes or grasses for hay or forage. Do not harvest legume seed for livestock feed. Do not use seed from treated legumes for sprouting. Apply only one application of this product per year.

**COVER CROPS\***

**Legumes:** Apply to forage legumes including alfalfa, clovers, crownvetch, birdsfoot trefoil and lespedeza.

**Grasses:** Apply **this product** to the following grasses: big bluestem, little bluestem, switchgrass, Russian wildrye, intermediate wheatgrass, crested wheatgrass, western wheatgrass, tall wheatgrass, smooth brome, canarygrass or orchardgrass.

**\*Note:** Plant cover crops into fields previously treated with **this product** for weed control in soybeans. In this situation, do not make an application of **this product** to the cover crop until the following spring.

**POSTEMERGENCE APPLICATIONS TO CRP COVER CROPS**

**Application Rate:** Apply this product at the rate of 4 fluid ounces per acre.

**Application Timing:** Apply this product postemergence to seedling legumes (with at least 3 fully expanded trifoliolate leaves) or to established legumes. On established legumes, apply this product in the fall or in the spring before weeds exceed the maximum specified size for control. Do not apply this product to seeded grasses until they have 4 leaves.

Refer to the WEEDS CONTROLLED under the SOYBEAN section of this label for additional information.

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**CROPS**

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**ALFALFA AND CLOVER**

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**[Editors Note:** Per FIFRA 2ee, “3 to 6 ounces per acre” rate may be revised to accommodate packaging smaller than 6 ounces (i.e., “3 to 4 ounces per acre”).]

**Use Rate (3 to 6 ounces per acre)** Apply this product at a broadcast rate of 3 to 6 ounces per acre postemergence only.

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**Apply a maximum of 0.094 lbs. a.e./A of imazethapyr (6 oz./A of this product) per year to alfalfa or clover.**

In North Dakota or Minnesota north of Highway 210, do not apply more than 4 ounces of this product per acre.

Do not apply more than 4 ounces of product to alfalfa or clover during the last year of the stand.

**SEEDLING ALFALFA/CLOVER**

This product must be applied postemergence to seedling alfalfa or clover. Apply this product when the seedling alfalfa or clover is in the second (2<sup>nd</sup>) trifoliolate stage or larger and when the majority of the weeds are 1-3 inches. For low growing weeds (such as mustards), apply this product before the rosette exceeds 3 inches. When this product is applied to seedling alfalfa or clover, expect a potential temporary reduction in growth.

**ESTABLISHED ALFALFA/CLOVER**

Apply this product to established alfalfa or clover in the fall, in the spring to dormant, or semi-dormant alfalfa or clover (less than 3 inches of regrowth), or between cuttings. Any application should be made before significant alfalfa or clover growth or regrowth (3 inches) to allow product to reach the target weeds.

Replanting: If replanting is necessary in a field previously treated with this product, do not plant alfalfa or clover for 4 months following an application. Refer to the ROTATIONAL CROP GUIDELINE section of this label for plant-back interval of various crops.

**PREHARVEST INTERVAL**

Do not graze, feed or harvest alfalfa or clover for 30 days following an application of this product to alfalfa or clover.

**WEEDS CONTROLLED**

When applied as directed, this product will control or reduce competition from the weeds listed below. Refer to the MIXING INSTRUCTIONS section for instructions when weeds are at the maximum specified growth stage, or are under stress.

**Note: S = Reduced Competition**

Weeds noted with an "S" will be suppressed by this product. For best results, apply before the weeds exceed the size indicated below.

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<b>BROADLEAF WEEDS CONTROLLED</b>			
<b>Weeds Controlled</b>	<b>Product Application Rate</b>		
	<b>3 oz/A</b>	<b>4 oz/A</b>	<b>6 oz/A</b>
	<b>Maximum Weed Size (inches)</b>		
Artichoke, Jerusalem	S	6	8
Beets, wild	4	5	6
Bedstraw, Catchweed		3	4
Buckwheat, wild		3	4
Chickweed,			
common	S	3	4
mouseear	S	3	3
Cocklebur, common	S	8	8
Cress, hoary		S	S
Dandelion		S	S(5)
Dock,			
broadleaf (seedling)			S(6)
curly (seedling)			S(6)
Dodder			S*
Fiddleneck			S(4)
Filaree,			
redstem		S	3
whitestem		S	3
Fleabane, rough		3	3
Flixweed	S	3	4
Goosefoot, Nettleleaf	S	3	4
Groundsel, common			S(3)
Henbit		S	3
Jimsonweed		3	4
Knotweed, prostrate		S	3
Kochia (non-ALS resistant)	S	3	3
Lambsquarter,			
common (1-2 leaves)		S	S(2)
Lettuce, miners		3	4
Mallow,			
common		3	3
little		3	3
Marshelder		4	6
Morningglory,			
entireleaf		S	3
ivyleaf		S	3
pitted		S	3
smallflower	S	3	4
tall		S	3
Mustards,			
tumble	3	3	4
wild	3	3	4
black	3	3	4



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BROADLEAF WEEDS CONTROLLED			
Weeds Controlled	Product Application Rate		
	3 oz/A	4 oz/A	6 oz/A
	Maximum Weed Size (inches)		
Nettle, burning		3	4
Nightshade,			
black	3	3	4
Eastern black	3	3	4
hairy	3	3	4
Oxtongue, bristly			S(3)
Pennycress, field	3	3	4
Pepperweed,			
field	3	3	4
Virginia	S	3	3
Pigweed,			
redroot	4	6	8
smooth	4	6	8
spiny		6	8
Radish, wild		S	4
Ragweed,			
common		2	3
giant		3	3
Redmaids		3	4
Rocket,			
London	3	4	6
yellow	S	3	4
Rockpurslane, desert			3
Shepherdspurse	3	3	4
Smartweed,			
ladysthumb	S	3	4
Pennsylvania	S	3	4
swamp (seedling)		3	4
Spurge,			
prostrate		S	3
spotted		S	3
petty		3	4
Spurry, corn		3	3
Sunflower, common	S	4	6
Swinecress		3	3
Tansymustard,			
green	3	3	4
pinnate	3	3	4
Thistle, Russian	S	3	3
Velvetleaf	S	3	4
Watercress, creeping		2	3
Watercress		3	3
Willowweed, panicle		3	3

\*For best results in suppressing dodder (*cuscuta* spp.), apply this product with crop oil concentrate or methylated seed oil after dodder has emerged but prior to or soon after attachment.

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GRASSES AND SEDGES CONTROLLED		
Weeds Controlled*	Product Application Rate	
	4 oz/A	6 oz/A
	Maximum Weed Size (inches)	
Barnyardgrass	S	3
Bluegrass, annual		S(3)
Canarygrass, littleseed	S	S(3)
Cereals, volunteer		
barley	S	S(4)
oats	S	S(4)
wheat	S	S(4)
Crabgrass,		
large	S	3
smooth	S	3
Cupgrass, woolly**	3	3
Foxtail,		
giant	6	6
green	3	4
yellow	3	3
Johnsongrass,		
seedling	8	8
rhizome	S	S(6-12)
Millet, wild proso	S	3
Nutsedge,		
yellow	S	S(6)
purple	S	S(6)
Oats, wild	S	S(4)
Rice, red	3	4
Shattercane	8	10
Signalgrass, broadleaf	S	8
Quackgrass***		S(7)

\*This product is active against many grass species. However, when heavy grass pressure is anticipated, use this product in a sequential application with a registered postemergence grass herbicide such as Poast Plus® for optimum control.

\*\* This product will only control emerged woolly cupgrass.

\*\*\*Quackgrass will be suppressed only when actively growing and before it exceeds 7 inches in height.

**TANK MIX COMBINATIONS WITH OTHER HERBICIDES**

To control weeds not specifically listed on this product label, tank mix herbicides such as Buctril®, 2,4-DB, Poast®, Poast Plus®, Prism® or Select® with this product. When this product is used in combination with another herbicide, refer to the respective label for rates, methods of application, proper timing, weeds controlled, restrictions and precautions. Always use in accordance with the more restrictive label restrictions and precautions. No label dosages should be exceeded.

**APPLICATION INFORMATION**

This product is effective in controlling a broad spectrum of broadleaf and grass weeds. Alfalfa and clover are tolerant to postemergence applications of this product after the second trifoliate leaf has expanded. Minor height reduction or slight leaf yellowing occurs soon after application.

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Apply this product as an early postemergence treatment when the weeds are actively growing. Weeds are generally easier to control before they exceed 3 inches in height. Weeds under stress are less susceptible to control in cold or drought stress conditions.

Temporary stunting and yellowing of the crop occurs if applied to alfalfa or clover under cool conditions (40°F or less).

**STAND ESTABLISHMENT**

Apply this product after alfalfa or clover has 2 fully expanded trifoliolate leaves. Weeds must not exceed the size listed in the WEEDS CONTROLLED tables. Apply this product to summer, fall or spring seeded alfalfa or clover.

**Inter-seeded Oats**

Oats inter-seeded with alfalfa or clover will reduce soil erosion and allow the alfalfa or clover to establish. However, oats can compete with the alfalfa or clover. An application of this product will kill or significantly reduce the growth of the oats and allow the alfalfa or clover to establish with minimal erosion or competition from the oats. Apply this product to the oats when the oats have 3-4 leaves.

**ESTABLISHED ALFALFA/CLOVER - DORMANT**

Apply this product to dormant alfalfa or clover in the fall following the last cutting. Also apply this product in the spring to dormant alfalfa or clover, or as alfalfa or clover breaks dormancy. Apply spring treatments prior to excessive alfalfa or clover growth (less than 3 inches), to reduce spray interference.

**ESTABLISHED ALFALFA/CLOVER - GROWING**

For weed control during the season, apply this product following alfalfa or clover cutting. Remove the hay from the field and apply this product prior to excessive alfalfa or clover regrowth.

**Perennial Grass Suppression**

If perennial grasses such as orchardgrass, fescues, bromes, or timothy are present in an alfalfa or clover stand, this product will reduce the growth and competitive effect of the grass.

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**CLEARFIELD® CORN**

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**(Not for use in California)**

**Use Rate (4 ounces per acre)**

Apply this product at a broadcast rate of 4 ounces per acre (1/4 pint) for all methods of application: early preplant, preplant incorporated, preemergence, and postemergence (including minimum and no-till). At this broadcast rate, one-gallon of this product will treat 32 acres of CLEARFIELD® corn.

**Note: Make only one application of this product during the season.**

**Apply a maximum of 0.063 lbs. a.e./A of imazethapyr (4 oz./A of this product) per year to CLEARFIELD® corn.**

**WEEDS CONTROLLED**

This product control or reduce competition from the weeds listed below. Refer to the MIXING INSTRUCTIONS section for instructions when weeds are at the maximum specified growth stage, or are under stress.

**Note: C = Control, S = Reduced Competition**

(The number under Maximum Leaf Stage indicates the maximum number of leaves at which weeds should be sprayed postemergence).

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Weeds Controlled	BROADLEAF WEEDS		
	SOIL APPLIED	POSTEMERGENCE	
		Maximum Leaf Stage	Size (Inches)
Alligator weed		4	1-3
Anoda, spurred	C	2	1-2
Artichoke, Jerusalem		8	6-10
Buffalobur	C*	S	1-3
Bristly starbur		2	1-2
Carpetweed	C		
Cocklebur, common	S	8	1-8
Galinsoga	C		
Jimsonweed	C*	4	1-3
Kochia (non-ALS resistant)	C	4	1-3
Lambsquarters, common	C*	S	1-2
Mallow, Venice	S		
Marshelder	C	4	1-3
Morningglory,			
entireleaf	S	2	1-2
ivyleaf	S	2	1-2
pitted	S	2	1-2
smallflower	C	4	1-3
tall	S	2	1-2
Mustard sp.	C	4	1-3
Nightshade,			
black	C	4	1-3
Eastern black	C	4	1-3
hairy	C	4	1-3
Pigweed,			
redroot	C	8	1-8
smooth	C	8	1-8
spiny	C	8	1-8
Poinsettia, wild	C		
Puncturevine	C		
Purslane, common	C		
Pusley, Florida	C		
Sida, prickly	C*		
Ragweed,			
common	S	4	1-3
giant	S	4	1-3
Sage, barnyard		S	1-3
Smartweed,			
ladysthumb	C	4	1-3
Pennsylvania	C	4	1-3
Spurge,			
prostrate	C	4	1-3
spotted	C	4	1-3
Sunflower	C*	4	1-3
Thistle, Canada		S	1-3
Velvetleaf	C*	4	1-3

\*These weeds are more consistently controlled by preplant incorporated treatments when this product is soil applied.

DO NOT count cotyledon leaves when determining weed stage of growth.

Weeds Controlled**	GRASS WEEDS*		
	SOIL APPLIED	POSTEMERGENCE	
		Maximum Leaf Stage	Size (Inches)
Barnyardgrass	S	3	1-3
Crabgrass,			
large	S	3	1-3
smooth	S	3	1-3
Cupgrass, woolly		3	1-3
Foxtail,			
giant	C	6	1-6
green	C	3	1-3
yellow	C	3	1-3
Goosegrass	S		
Johnsongrass,			
seedling	C	6	1-8
rhizome		S	6-12
Millet, wild proso	S	S	1-3
Panicum,			
fall	S		
Texas	S		
Red rice		3	1-3
Sandbur, field	S	S	<1
Shattercane	S	6	1-8
Signalgrass, broadleaf	S	4	1-8
Sorghum alnum	S	6	1-3
<b>SEDGES</b>			
Nutsedge,			
purple	S	S	1-3
yellow	S	S	1-3

\*Preplant incorporated treatments of this product are more consistent for grass control.

\*\* This product controls many grass species. When heavy grass pressure is anticipated, a soil applied grass herbicide underlay (such as Prowl® or Outlook®) is specified for optimum control. Do not incorporate Prowl® 3.3 EC herbicide; apply preemergence or early postemergence only. Use this product in sequential programs with registered burndown herbicides and/or soil applied atrazine-containing products.

**TANK MIXTURE HERBICIDE COMBINATIONS (Postemergence)**

- Accent®<sup>1</sup>                      Clarity®\*,\*\*\*
- Atrazine\*,\*\*                Metolachlor
- Banvel®\*,\*\*\*                Marksman®\*
- Basagran®\*                  Outlook®
- Buctril®\*,\*\*                 Prowl® 3.3 EC

<sup>1</sup>If Accent® is used in combination with this product on Pioneer imidazolinone-resistant (IR) corn, use any registered soil insecticide applications.

If this product plus Accent<sup>®</sup> tank mixtures are used on imidazolinone-tolerant (IT) hybrids, do not use Counter<sup>®</sup> 15G. Use other registered organophosphate insecticides such as Counter<sup>®</sup> CR (banded applications only) or Thimet<sup>®</sup> or other registered carbamates or pyrethroid insecticides when this product plus Accent<sup>®</sup> tank mixtures are applied to IT corn hybrids.

\*In some cases the grass activity of this product will be reduced when used in combination with atrazine, Buctril<sup>®</sup>, Banvel<sup>®</sup>, Basagran<sup>®</sup>, Clarity<sup>®</sup>, or Marksman<sup>®</sup>.

\*\*Some corn leaf burn results with Buctril<sup>®</sup> or atrazine postemergence combinations with this product.

\*\*\*Applications of Banvel<sup>®</sup> or Clarity<sup>®</sup> herbicide to corn during periods of rapid growth result in temporary leaning.

Do not use crop oil concentrates as adjuvants in combinations of this product with Buctril<sup>®</sup>.

This product is active against many broadleaf and grass weed species. However, for long term weed management, use alternate mode of action herbicides with this product. The application of a soil applied grass herbicide underlay will control grass weeds not on this product label and enhance the control of certain broadleaf weeds such as common lambsquarters.

Refer to the respective label for rates, methods of application, proper timing, weeds controlled, restrictions and precautions when this product is used in combination with another herbicide. Always use in accordance with the more restrictive label restrictions and precautions. No label dosages should be exceeded. This product cannot be mixed with any product containing a label prohibiting such mixtures.

**APPLICATIONS TO CLEARFIELD<sup>®</sup> CORN IN NORTH DAKOTA AND MINNESOTA (North of Highway 210)**

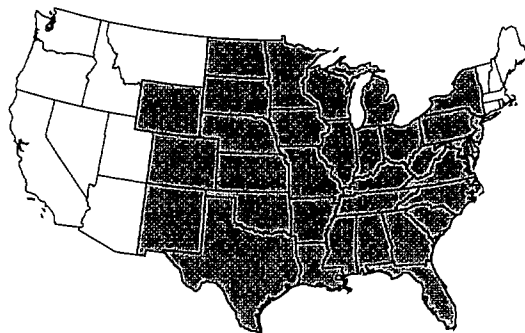
**Application Rate:** Apply this product postemergence only at 3 ounces per acre.

Weeds Controlled	POSTEMERGENCE	
	Maximum Leaf Stage	Size (Inches)
Kochia (non-ALS resistant)	4	1-3
Mustard, species	4	1-3
Nightshade,		
black	4	1-3
Eastern black	4	1-3
hairy	4	1-3
Pigweed, redroot	4	1-4
Wild oats*	3	1-4

\* This product will reduce competition from wild oats.

**NAVY, GREAT NORTHERN, RED KIDNEY, BLACK TURTLE, CRANBERRY, PINTO, LIMA, AND SMALL WHITE TYPE DRY BEANS, LENTILS, WHITE LUPINS, CHICKPEAS (GARBANZO BEANS), DRY EDIBLE PEAS, ENGLISH AND SOUTHERN PEAS**

**For use in the states east of and including: North Dakota, South Dakota, Wyoming, Colorado, and New Mexico (except the states east of and including: Vermont, Massachusetts, and Connecticut). Refer to the map below for geographical use area.**



Do not make more than one application of this product per year.

**Apply a maximum of 0.063 lb. a.e./A of imazethapyr (4 oz./A of this product) per year to peas and beans in this region.**

Use only nonionic surfactants as a spray additive for postemergence applications. Do not use crop oils, methylated seed oils, or petroleum oils.

Allow at least 30 days between application and harvest of succulent lima beans, English peas and Southern peas. Allow at least 60 days between application and harvest of dry edible peas, lentils, chickpeas, and other dry bean or pea types listed on this label.

**Do not apply this product postemergence before crop has at least one trifoliolate leaf or peas are at least three inches in height or crop injury (reduced crop growth and/or delayed maturity) results. Do not apply this product postemergence to lima beans, lentils, white lupins, or chickpeas.**

Do not apply to Domino variety black turtle beans.

Do not apply this product through any type of irrigation system.

Pinto varieties UI-111 and Olathe are more sensitive to this product than other varieties.

#### **APPLICATION INSTRUCTIONS**

**NAVY, GREAT NORTHERN, RED KIDNEY, BLACK TURTLE, CRANBERRY, PINTO, AND SMALL WHITE DRY BEANS, DRY EDIBLE PEAS, ENGLISH AND SOUTHERN PEAS**

**In Michigan or the Delaware, Maryland, and Virginia (DelMarVa) peninsula:** Do not apply more than 2 ounces of this product to sands or loamy sand soils.

**In North Dakota or north of Highway 210 in Minnesota:** Do not apply more than 2 ounces of this product.

**Preplant Incorporated Applications:** Apply this product at a broadcast rate up to 3 ounces per acre to dry beans (navy, great northern, red kidney, black turtle, cranberry, pinto and small white type dry beans), dry edible peas and English peas, or up to 4 ounces per acre for southern peas only, use within 1 week before planting. When this product is applied preplant incorporated, a tank mixture with a registered grass herbicide.

**Preemergence Applications:** Apply this product at a broadcast rate of up to 3 ounces per acre to dry beans, dry edible peas and English peas, or up to 4 ounces per acre for southern peas only, immediately after or up to 3 days after planting. Apply this product in a tank mix with a registered grass herbicide or applied preemergence following a preplant incorporated application of a registered grass herbicide.

**Early Postemergence Applications:** Apply this product at a broadcast rate of up to 3 ounces per acre to dry beans, dry edible peas, and English peas, or up to 4 ounces per acre for southern peas only. Apply to dry beans with at least one fully expanded trifoliolate leaf. Apply to dry edible peas, English peas, and southern peas at least 3 inches in height but prior to 5 nodes and before flowering. The use of trifluralin prior to an application of this product increases the likelihood and severity of crop injury. A nonionic surfactant must be added to the spray solution. The nonionic surfactant must contain at least 80% active ingredient and should be used at a rate of 2 pints per 100 gallons of spray mixture.

Tank mix Basagran® with this product to control weeds not listed on the product label. The addition of Basagran® causes antagonism, reducing control of grass weeds. Include a nitrogen based fertilizer as a spray additive only when this product is tank mixed with Basagran®. Refer to the Basagran® label for proper application rates and restrictions. Always use in accordance with the more restrictive label restrictions and precautions.

**LIMA BEANS, CHICKPEAS (GARBANZOS), LENTILS AND WHITE LUPINS**

Do not apply this product to white lupins grown on sand or loamy sand soils.

**In Michigan or the Delaware, Maryland, and Virginia (DelMarVa) peninsula:** Do not apply more than 2 ounces of this product to sands or loamy sand soils.

**In North Dakota or north of Highway 210 in Minnesota:** Do not apply more than 2 ounces of this product.

**Preplant Incorporated Applications:** Apply this product at a broadcast rate up to 3 ounces per acre within 1 week before planting. Applied preplant incorporated, tank mix this product with a registered grass herbicide.

**Preemergence Applications:** Apply this product at a broadcast rate of up to 3 ounces per acre immediately after or up to 3 days after planting. Apply this product in a tank mix with a registered grass herbicide or applied preemergence following a preplant incorporated application of a registered grass herbicide.

**WEEDS CONTROLLED**

This product, when applied at a broadcast rate of 2 ounces per acre preplant incorporated, preemergence, or early postemergence will control:

- Mustard, wild
- Nightshade, black\*
- Nightshade, Eastern black\*

\*Suppression only

This product, when applied at a broadcast rate of 3 ounces per acre preplant incorporated, preemergence, or early postemergence will control:

- Mustard, wild
- Nightshade, black
- Nightshade, Eastern black
- Nightshade, hairy
- Pigweed, redroot

Postemergence applications of 3 ounces per acre must be made to weeds less than 2 inches tall for best results.

**When applied as directed at the broadcast rate of 4 ounces per acre (for southern peas only), this product will control or reduce competition from the weeds listed below:**

**Note: C = Control, S = Reduced Competition**



(The number under Maximum Leaf Stage indicates the maximum number of leaves at which weeds should be sprayed postemergence).

Weeds Controlled	BROADLEAF WEEDS		
	SOIL APPLIED	POSTEMERGENCE	
		Maximum Leaf Stage	Size (Inches)
Anoda, spurred	C	2	1-2
Artichoke, Jerusalem		8	6-10
Buffalobur	C*		
Bristly starbur		2	1-2
Carpetweed	C		
Cocklebur, common	C*	8	1-8
Galinsoga	C		
Jimsonweed	C**	4	1-3
Kochia (non-ALS resistant)	C	4	1-3
Lambsquarters	C**	S	1-2
Mallow, Venice	S		
Marshelder	C	4	1-3
Morningglory,			
entireleaf	S	2	1-2
ivyleaf	S	2	1-2
pitted	S	2	1-2
smallflower	C	4	1-3
tall	S	2	1-2
Mustard sp.	C	4	1-3
Nightshade,			
black	C	4	1-3
Eastern black	C	4	1-3
hairy	C	4	1-3
Pigweed,			
redroot	C	4	1-4
smooth	C	4	1-4
spiny	C	4	1-4
Poinsettia, wild	C		
Puncturevine	C		
Purslane, common	C		
Pusley, Florida	C		
Sida, prickly	C**		
Ragweed,			
common	S	4	1-3
giant	S	4	1-3
Sage, barnyard		S	1-3
Smartweed,			
ladysthumb	C	4	1-3
Pennsylvania	C	4	1-3
Spurge,			
prostrate	C	4	1-3
spotted	C	4	1-3
Sunflower, common	C**	4	1-3

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Weeds Controlled	BROADLEAF WEEDS		
	SOIL APPLIED	POSTEMERGENCE	
		Maximum Leaf Stage	Size (Inches)
Thistle, Canada		S	1-3
Velvetleaf	C**	4	1-3

\*Use soil applications for light to moderate infestations only. Must be preplant incorporated for best results.

\*\*When soil applied, common lambsquarters, jimsonweed, prickly sida, velvetleaf and common sunflower are more consistently controlled by preplant incorporated treatments.

Weeds Controlled	GRASS WEEDS		
	SOIL APPLIED	POSTEMERGENCE	
		Maximum Leaf Stage	Size (Inches)
Barnyardgrass	S	3	1-3
Crabgrass,			
large	S	3	1-3
smooth	S	3	1-3
Cupgrass, woolly		3**	1-3
Foxtail,			
giant	C	6	1-6
green	C	3	1-3
robust purple	C	3	1-3
robust white	C	3	1-3
yellow	C	3	1-3
Goosegrass	S		
Johnsongrass,			
seedling	C	6	1-8
rhizome		S	1-8
Panicum,			
fall	S		
Texas	S		
Red rice		3	1-3
Shattercane	S	6	1-8
Signalgrass, broadleaf	S	4	1-8
SEDGES			
Nutsedge,			
purple	S	S	1-3
yellow	S	S	

\*When soil applied to grasses, more consistent control can be obtained from preplant incorporated treatments.

\*\* This product controls emerged woolly cupgrass only.

Do not count cotyledon leaves when determining weed stage of growth.

**Refer to the PRECAUTIONS section for additional information.**

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**RED KIDNEY BEANS**

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**For use in California only.**

**APPLICATION RATE AND TIMING**

**Postemergence Applications:** Apply this product at the rate of 3 ounces per acre. A non-ionic surfactant containing at least 80% active ingredient must be added to the spray solution and should be used at a rate of 2 pints per 100 gallons of spray mixture.

Make applications of this product when weeds are actively growing and red kidney beans have at least 1 fully expanded trifoliolate leaf. Do not apply this product postemergence when the crop and weeds have been subjected to stress conditions such as temperature or moisture extremes.

Cultivate 7-10 days following a postemergence application for maximum weed control. Cultivation during this time period will enhance residual weed control, especially under dry conditions.

- **Do not apply by aerial application.**
- **Apply a maximum of 0.047 lb. a.e./A of imazethapyr (3 oz./A of this product) per year to red kidney beans.**
- **Do not make more than one application of this product per year.**
- **Do not apply this product postemergence before crop has at least one true leaf or crop injury (reduced crop growth and/or delayed maturity) will result.**

**WEEDS CONTROLLED**

When applied as directed, this product will control or reduce competition from the weeds listed below. Refer to the MIXING INSTRUCTIONS section for instructions when weeds are at the maximum specified growth stage, or are under stress.

(The number under Maximum Leaf Stage indicates the maximum number of leaves at which weeds should be sprayed postemergence).

Weeds Controlled	WEEDS	
	POSTEMERGENCE	
	Maximum Leaf Stage	Size (Inches)
Kochia (non-ALS resistant)	4	1-3
Mustard, wild	4	1-3
Nightshade,		
black	4	1-3
Eastern black	4	1-3
hairy	4	1-2
Pigweed,		
redroot	4	1-3

**Allow at least 60 days between application and harvest.**

**Refer to the PRECAUTIONS section for additional instructions.**

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**SNAP BEANS**

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**For use in the states of Alabama, Florida, Georgia, Illinois, Minnesota, Michigan, New Jersey, and Wisconsin.**

- **Do not apply by aerial application.**
- **Do not apply this product after July 31 (June 20<sup>th</sup> in New Jersey).**

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- Do not make more than one application of this product per year.
- Allow at least 30 days between application and harvest.
- Apply a maximum of 0.023 lb. a.e./A of imazethapyr (1.5 oz./A of this product) per year to snap beans.
- Refer to the PRECAUTIONS section for additional instructions.

**APPLICATION INSTRUCTIONS**

**Preplant Incorporated Applications:** Apply this product at the rate of 1.5 ounces per acre within 1 week of planting. Applied preplant incorporated, tank mix this product with a registered grass herbicide.

**Preemergence Applications:** Apply this product at the broadcast rate of 1.5 ounces per acre immediately after, or up to 1 day after planting. Apply this product in a tank mix with a registered grass herbicide or applied preemergence following a preplant incorporated application of a registered grass herbicide.

**WEEDS SUPPRESSED**

This product, when applied at the broadcast rate of 1.5 oz/A preplant incorporated or preemergence will suppress or reduce competition from the following weeds:

- Common purslane
- Eastern Black Nightshade
- Redroot Pigweed
- Wild Mustard

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**SNAP BEANS**

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For use in the states of Arkansas, Missouri, Oklahoma, Texas (counties of Bailey, Castro, Lamb and Parmer only) and New Mexico (counties of Curry and Roosevelt only).

- Do not apply by aerial application.
- Do not apply this product after July 31.
- Do not make more than one application of this product per year.
- Allow at least 30 days between application and harvest.
- Apply a maximum of 0.023 lb. a.e./A of imazethapyr (1.5 oz./A of this product) per year to snap beans.
- Refer to the PRECAUTIONS section for additional instructions.

**APPLICATION INSTRUCTIONS**

**Postemergence Applications:** Apply this product at the rate of 1.5 ounces per acre in a tank mix combination with Basagran®. A non-ionic surfactant containing at least 80% active ingredient must be added to the spray solution and should be used at a rate of 2 pints per 100 gallons of spray mixture. Refer to the Basagran® label for proper application rates and restrictions.

**Do not apply this product postemergence before crop has at least one true leaf or crop injury (reduced crop growth and/or delayed maturity) will result.**

**WEEDS SUPPRESSED**

This product, when applied at the broadcast rate of 1.5 oz/A postemergence will suppress or reduce competition from the following weeds:

- Eastern Black Nightshade
- Redroot Pigweed

**SUCCULENT PEAS, DRY EDIBLE PEAS, LENTILS, CHICKPEAS, AND LIMA BEANS**

For use in the states of Idaho, Montana, Nevada, Oregon, Utah, and Washington.

- Allow at least 60 days between application and harvest for dry edible peas, chickpeas, lentils and dry lima beans.
- Allow at least 30 days between application and harvest for succulent peas and succulent lima beans.
- Apply a maximum of 0.047 lb. a.e./A of imazethapyr (3 oz./A of this product) per year to peas and beans in this region.
- Do not make more than one application of this product per year.
- Refer to the PRECAUTIONS section for additional instructions.

**APPLICATION RATE AND TIMING**

**Preplant Applications for No-Till and Minimum Tillage Systems Only:**

Apply this product at a broadcast rate of 3 ounces per acre within 30 days before planting. If incorporated, do not incorporate deeper than 3 inches.

In no-till and minimum tillage systems, apply this product in the fall prior to spring planting. Rainfall is required for incorporation and activation. Unpredictable weed control can be expected since factors such as length of time between applications and planting, as well as uncontrollable weather factors will determine the herbicide activity and longevity. Apply this product in the fall when soil temperature at the 4-inch depth is less than 55°F and before the ground is frozen.

**Preplant Incorporated Applications:** Apply this product at the broadcast rate of 3 ounces per acre within 1 week before planting. Do not incorporate deeper than 3 inches.

**Preemergence Applications:** Apply this product at the broadcast rate of 3 ounces per acre after planting, but prior to crop emergence.

Tank mix this product with Sencor® DF to assist in the control of lambsquarters or mayweed-chamomile (dogfennel). Refer to the Sencor® label for proper application rates and instructions.

**Postemergence Applications (Dry Edible Peas Only):** Apply this product at 2 ounces per acre. A nonionic surfactant containing at least 80% active ingredient must be added to the spray solution and should be used at a rate of 2 pints per 100 gallons of spray mixture.

Tank mix Basagran® with this product to control weeds not listed on the product label. The addition of Basagran® causes antagonism, reducing control of grass weeds. Include a nitrogen-based fertilizer as a spray additive only when this product is tank mixed with Basagran®. Use liquid fertilizer at 1.25 to 2.5 gallons per 100 gallons of spray solution or ammonium sulfate at the rate of 12-15 lbs./100 gallons of spray solution.

**Do not apply this product postemergence before crop has at least one trifoliate leaf or peas are at least three inches in height or crop injury (reduced crop growth and/or delayed maturity results. Do not apply this product postemergence to lima beans, lentils, or chickpeas.**

WEEDS CONTROLLED		
PPI and/or Preemergence at 3 oz./A will control		
Weeds Controlled	Preplant Incorporated	Preemergence
Buckwheat, wild	C	C
Kochia (non-ALS resistant)	C	C
Lambsquarters, common	C	
Mustard, wild	C	C
Nightshade,		

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black	C	C
Eastern black	C	C
hairy	C	C
Pigweed, redroot	C	C
Shepherdspurse	C	C
Thistle, Russian	C	C

Note: C = Control

This product, when applied postemergence at the broadcast rate of 2 ounces will control:

- Wild mustard
- Black nightshade\*
- Eastern black nightshade\*
- Hairy nightshade\*
- \*Suppression only

**CHICKPEAS**

For use in the states of Arizona and California.

- Allow at least 60 days between application and harvest for dry chickpeas.
- Allow at least 30 days between application and harvest of succulent chickpeas.
- Apply a maximum of 0.047 lb. a.e./A of imazethapyr (3 oz./A of this product) per year to chickpeas in this region.
- Do not make more than one application of this product per year.
- Refer to the PRECAUTIONS section for additional instructions.

**APPLICATION RATE AND TIMING**

**Preplant Incorporated Applications:** Apply this product at the broadcast rate of up to 3 ounces per acre within 1 week before planting. Applied preplant incorporated, tank mix this product with a registered grass herbicide.

**Preemergence Applications:** Apply this product at the broadcast rate of up to 3 ounces per acre immediately after or up to 3 days after planting. Apply this product in a tank mix with a registered grass herbicide or applied preemergence following a preplant incorporated application of a registered grass herbicide.

WEEDS CONTROLLED		
Weeds Controlled	Preplant Incorporated	Preemergence
Buckwheat, wild	C	C
Kochia (non-ALS resistant)	C	C
Lambsquarters, common	C	
Mustard, wild	C	C
Nightshade,		
black	C	C
Eastern black	C	C
hairy	C	C
Pigweed, redroot	C	C
Shepherdspurse	C	C
Thistle, Russian	C	C

Note: C = Control

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**PEANUTS**

**Use Rate: 4 ounces per acre**

**Not for use in California**

Apply this product at a broadcast rate of 4 ounces per acre for all methods of application (except sequential – see below): preplant incorporated, preemergence, ground-cracking and postemergence. One gallon of this product will treat 32 acres of peanuts at the 4-ounce per acre broadcast rate.

Apply this product in a sequential application. Apply 2 ounces in a soil application (preplant incorporated or preemergence) followed by 2 ounces applied at ground-crack or postemergence.

**Apply a maximum of 0.063 lb. a.e./A of imazethapyr (4 oz./A of this product) per year to peanuts.**

**Note: In Arizona, use only in Yuma and La Paz counties.**

**WEEDS CONTROLLED**

This product will control or reduce competition from the weeds listed below. Refer to the MIXING INSTRUCTIONS section for instructions when weeds are at the maximum specified growth stage, or are under stress.

**Note: C = Control, S = Reduced Competition**

(The number under Maximum Leaf Stage indicates the maximum number of leaves at which weeds should be sprayed postemergence).

Weeds Controlled	BROADLEAF WEEDS			
	SOIL APPLIED	AT-CRACK	POSTEMERGENCE	
			Maximum Leaf Stage	Size (Inches)
Alligator weed		C	4	1-3
Anoda, spurred	C	C	2	1-2
Buffalobur	C*	C	S	1-3
Bristly Starbur			2	1-2
Carpetweed	C	C		
Cocklebur, common	S	C	8	1-8
Devilsclaw	C	C		
Galinsoga	C	C		
Jimsonweed	C*	C	4	1-3
Lambsquarters, common	C*	C	S	1-2
Morningglory,				
entireleaf	S	C	2	1-2
ivyleaf	S	C	2	1-2
pitted	S	C	2	1-2
smallflower	C	C	4	1-3
tall	S	C	2	1-2
Mustard sp.	C	C	4	1-3
Nightshade,				
black	C	C	4	1-3
Eastern black	C	C	4	1-3
hairy	C	C	4	1-3
Pigweed,				

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Weeds Controlled	BROADLEAF WEEDS			
	SOIL APPLIED	AT-CRACK	POSTEMERGENCE	
			Maximum Leaf Stage	Size (Inches)
redroot	C	C	8	1-8
smooth	C	C	8	1-8
spiny	C	C	8	1-8
Poinsettia, wild	C	C		
Puncturevine	C	C		
Purslane, common	C	C		
Pusley, Florida	C	C		
Ragweed,				
common	S	S	4	1-3
giant	S	S	4	1-3
Sida, prickly (teaweed)	C*	C		
Smartweed,				
ladysthumb	C	C	4	1-3
Pennsylvania	C	C	4	1-3
Spurge,				
prostrate	C	C	4	1-3
spotted	C	C	4	1-3
toothed	C	C		
Sunflower	C*	C	4	1-3
Velvetleaf	C*	C	4	1-3

\*These weeds are more consistently controlled by preplant incorporated treatments when this product is soil applied.

Weeds Controlled	GRASS WEEDS			
	SOIL APPLIED	AT-CRACK	POSTEMERGENCE	
			Maximum Leaf Stage	Size (Inches)
Barnyardgrass	S	S	3	1-3
Crabgrass,				
large	S	C	3	1-3
smooth	S	C	3	1-3
Cupgrass, woolly			3	1-3
Foxtail,				
giant	C	C	6	1-6
green	C	C	3	1-3
yellow	C	C	3	1-3
Goosegrass	S	S		
Johnsongrass,				
seedling	C	C	6	1-8
rhizome			S	6-12
Panicum,				



Weeds Controlled	GRASS WEEDS			
	SOIL APPLIED	AT-CRACK	POSTEMERGENCE	
			Maximum Leaf Stage	Size (Inches)
fall	S			
Texas	S			
Red rice			3	1-3
Shattercane	S	S	6	1-8
Signalgrass, broadleaf	S	C	4	1-6
SEDGES				
Nutsedge,				
purple	C	C	3	1-3
yellow	C	C	3	1-3

\*More consistent control can be obtained from preplant incorporated treatments when this product is soil applied to grasses.

“AT CRACK” APPLICATION refers to the time when the soil cracks due to the emerging peanut seedling. This generally occurs from 10 to 14 days following planting. At this time, weeds have generally not germinated, or, are in the seedling stage. If weeds have more than 2 true leaves, refer to the POSTEMERGENCE weed control column for weeds controlled.

In West Texas and New Mexico, wait until late cracking (most of the peanuts have emerged) before applying this product.

This product is active against many broadleaf and grass species. However, when heavy grass or common lambsquarters pressure is anticipated, use this product in combination with a registered soil-applied grass herbicide (Refer to the HERBICIDE COMBINATIONS section).

**WEEDS CONTROLLED BY SEQUENTIAL APPLICATIONS**

The sequential (split) application of this product consists of an application of 2 ounces of product soil applied (either preplant incorporated or preemergence) followed by 2 ounces applied either at ground-crack or postemergence.

When applied as a sequential treatment, this product will control the weeds listed under the “SOIL APPLIED” and “AT-CRACK” applications in the BROADLEAF WEEDS and GRASS WEEDS tables (in the peanut section of this label). A sequential application of this product enhances the control of yellow and purple nutsedge. Apply the second application before the nutsedge exceeds 3 leaves.

**HERBICIDE COMBINATIONS**

**GRASS WEEDS**

When applied as directed, this product preplant incorporated or preemergence combination treatments with Prowl® 3.3 EC, trifluralin, Lasso®, metolachlor, Balan™, or Sonalan™ will control the weeds listed in the following table, in addition to those controlled by this product alone.

	Prowl® 3.3 EC <sup>1</sup>	Trifluralin <sup>2</sup>	Lasso®	Metolachlor	Balan™ <sup>2</sup>	Sonalan™ <sup>2</sup>
<b>GRASSES</b>						
Barnyardgrass	X	X	X	X	X	X
Crabgrass,						
smooth	X	X	X	X	X	X
large	X	X	X	X	X	X

Crowfootgrass	X	X			X	
Goosegrass	X	X	X	X	X	X
Panicum,						
fall	X	X	X	X	X	X
Texas	X	X			X	X
Sandbur,						
field	X	X			X	X
Signalgrass,						
broadleaf	X <sup>2</sup>	X	X	X	X	X
Witchgrass	X	X	X	X		X

<sup>1</sup>Preplant incorporated tank mixture applications of this product plus Prowl<sup>®</sup> 3.3 EC will suppress the growth of itchgrass and rhizome johnsongrass.

<sup>2</sup>Preplant incorporated treatments only.

Mix a selective postemergence grass herbicide such as Poast Plus<sup>®</sup> or Whip<sup>®</sup> with this product to control grasses not controlled by this product alone. In some cases the activity of the grass herbicide is reduced when mixed with this product. The reduction in activity is overcome by delaying the application of the postemergence grass herbicide 7 days following the application of this product. If the postemergence grass herbicide is applied first, wait 3 days before applying this product. Refer to the respective grass herbicide label for specific application rate, weed size and restrictions.

**BROADLEAF WEEDS**

Broadleaf herbicides that can be tank mixed with this product include Basagran<sup>®</sup>, Ultra Blazer<sup>®</sup>, and 2,4-DB. Do not apply certain herbicides with this product (refer to the PRECAUTIONS section of this label for restrictions).

For the control of sicklepod, morningglories, prickly sida and common ragweed, add 2,4-DB to the product spray mixture. Refer to the 2,4-DB label for specific directions for use, application rates and restrictions.

Apply this product postemergence in tank mixture with Bravo<sup>®</sup>, Bravo<sup>®</sup> S, Orthene<sup>®</sup> or Solubor<sup>®</sup>.

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**SOYBEANS**

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**Use Rate: 4 ounces per acre**

**Not for use in California**

Apply this product at a broadcast rate of 4 ounces per acre for all methods of application: early preplant, preplant incorporated, preemergence, and postemergence (including minimum and no-till). Refer to the section APPLICATIONS TO SOYBEANS IN NORTH DAKOTA AND MINNESOTA for applications in North Dakota and Minnesota north of Highway 210.

**Note:** Make only one application of this product during the season.

**Apply a maximum of 0.063 lb. a.e./A of imazethapyr (4 oz./A of this product) per year to soybeans.**

**WEEDS CONTROLLED**

When applied as directed, this product will control or reduce competition from the weeds listed below. Refer to the MIXING INSTRUCTIONS section for instructions when weeds are at the maximum specified growth stage, or are under stress.

**Note: C = Control, S = Reduced Competition**

(The number under Maximum Leaf Stage indicates the maximum number of leaves at which weeds should be sprayed postemergence).

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Do not count cotyledon leaves when determining weed stage of growth.

Weeds Controlled	BROADLEAF WEEDS		
	SOIL APPLIED	POSTEMERGENCE	
		Maximum Leaf Stage	Size (Inches)
Alligator weed		4	1-3
Anoda, spurred	C	2	1-2
Artichoke, Jerusalem		8	6-10
Buffalobur	C*	S	1-3
Bristly starbur		2	1-2
Carpetweed	C		
Cocklebur, common	S	8	1-8
Galinsoga	C		
Jimsonweed	C*	4	1-3
Kochia (non-ALS resistant)	C	4	1-3
Lambsquarters, common	C*	S	1-2
Mallow, Venice	S		
Marshelder	C	4	1-3
Morningglory,			
entireleaf	S	2	1-2
ivyleaf	S	2	1-2
pitted	S	2	1-2
smallflower	C	4	1-3
tall	S	2	1-2
Mustard sp.	C	4	1-3
Nightshade,			
black	C	4	1-3
Eastern black	C	4	1-3
hairy	C	4	1-3
Pigweed,			
redroot	C	8	1-8
smooth	C	8	1-8
spiny	C	8	1-8
Poinsettia, wild	C		
Puncturevine	C		
Purslane, common	C		
Pusley, Florida	C		
Sida, prickly	C*		
Ragweed,			
common	S	S	1-3
giant	S	S	1-3
Sage, barnyard	S	1-3	
Smartweed,			
ladysthumb	C	4	1-3
Pennsylvania	C	4	1-3
Spurge,			
prostrate	C	4	1-3
spotted	C	4	1-3
Sunflower	C*	4	1-3

Weeds Controlled	BROADLEAF WEEDS		
	SOIL APPLIED	POSTEMERGENCE	
		Maximum Leaf Stage	Size (Inches)
Thistle, Canada		S	1-3
Velvetleaf	C*	4	1-3

\*These weeds are more consistently controlled by preplant incorporated treatments when this product is soil applied.

Weeds Controlled**	GRASS WEEDS*		
	SOIL APPLIED	POSTEMERGENCE	
		Maximum Leaf Stage	Size (Inches)
Barnyardgrass	S	3	1-3
Crabgrass,			
large	S	3	1-3
smooth	S	3	1-3
Cupgrass, woolly***		3	1-3
Foxtail,			
giant	C	6	1-6
green	C	3	1-3
yellow	C	3	1-3
Goosegrass	S		
Johnsongrass,			
seedling	C	6	1-8
rhizome		S	6-12
Millet, wild proso	S	S	1-3
Panicum,			
fall	S		
Texas	S		
Red rice		3	1-3
Shattercane	S	6	1-8
Signalgrass, broadleaf	S	4	1-8
Sorghum, alnum	S	6	1-3
SEDGES			
Nutsedge,			
purple	S	S	1-3
yellow	S	S	1-3

\*Preplant incorporated treatments of this product are more consistent for grass control.

\*\*This product is active against many broadleaf and grass species. However, when heavy grass or common lambsquarters pressure is anticipated, use this product in combination with a registered soil-applied grass herbicide (such as Prowl®) for optimum control (Refer to the HERBICIDE COMBINATIONS section for more information).

\*\*\*This product only controls emerged woolly cupgrass.

## HERBICIDE COMBINATIONS

### GRASS WEEDS

Use a soil applied grass herbicide (such as Prowl® 3.3 EC) to control grass weeds not on the product label and to enhance the control of certain broadleaf weeds such as common lambsquarters and pigweeds. Refer to the Prowl® 3.3 EC (or other grass herbicide) label for specific use instructions, rates and precautions.

When applied as directed, this product preplant incorporated or preemergence combination treatments with Prowl® 3.3 EC, TRI-4®, trifluralin, Outlook®, Lasso® or metolachlor will control the weeds listed in the following table, in addition to those controlled by this product alone.

	Prowl® 3.3 EC <sup>1</sup>	Trifluralin <sup>2</sup>	Lasso®	metolachlor	Outlook®
<b>Grasses</b>					
Barnyardgrass	X	X	X	X	X
Crabgrass,					
smooth	X	X	X	X	X
large	X	X	X	X	X
Crowfootgrass	X	X			
Goosegrass	X	X	X	X	X
Millet, wild proso	X	X			
Panicum,					
fall	X	X	X	X	X
Texas	X	X			
Sandbur field	X	X			
Shattercane	X <sup>2</sup>	X			
Signalgrass, broadleaf	X <sup>2</sup>	X	X	X	X
Witchgrass	X	X	X	X	X

<sup>1</sup>Preplant incorporated tank mixture applications of this product plus Prowl® 3.3 EC will suppress the growth of itchgrass and rhizome johnsongrass.

<sup>2</sup>Preplant incorporated treatments only.

Mix a selective postemergence grass herbicide such as Poast Plus® with this product to control volunteer corn or grasses not controlled by this product alone. Use a crop oil concentrate and liquid fertilizer with grass herbicide tank mixtures for best results.

**This product plus Poast Plus® for Enhanced Grass Control**

Apply this product at the rate of 4 ounces per acre. Refer to the table below for the appropriate rate of Poast Plus® for enhanced grass control. The addition of Poast Plus® to this product at the specified rates will control the grasses listed below. Refer to the Poast Plus® label for additional weeds controlled.

Poast Plus® Rate* (ounces per acre)	Annual Grasses Controlled	Size (Inches)
12 oz.	Wild Proso Millet Shattercane	4-10" 3-12"
16 oz.	Foxtail, Giant Junglerice Panicum, Fall Panicum, Texas Signalgrass, Broadleaf	3-8" 3-8" 3-8" 3-8" 3-8"
20 oz.	Volunteer Corn	4-10"
24 oz.	Barnyardgrass Crabgrass, Large Crabgrass, Smooth Cupgrass, Woolly Foxtail, Green Foxtail, Yellow Goosegrass Johnsongrass, Seedling	3-8" 3-6" 3-6" 3-8" 3-8" 3-8" 3-8" 3-6" 3-8"

	Sprangletop, Red Witchgrass	3-8" 3-8"
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\*If a mixture of grasses is present, use the highest rate indicated for the grasses selected.

The addition of Poast Plus® to this product enhances grass control, particularly when heavy infestations of grass exist. It also provides control of grasses not controlled by this product alone. In some cases, reduced activity of Poast Plus® occurs when mixed with this product. The reduction in activity is overcome by delaying the application of Poast Plus® 7 days following the application of this product. If Poast Plus® is applied first, wait 3 days before applying this product.

For optimum control, apply the tank mixture to actively growing weeds at the sizes indicated in the table above, (for sequential applications refer to application rates and weed sizes indicated in the this product and Poast Plus® labels). Refer to the Poast Plus® label for additional information regarding application rates, restrictions, precautions, weeds controlled, specified adjuvants and other information.

**BROADLEAF WEEDS**

Broadleaf herbicides that can be tank mixed with this product include Basagran®, Cobra®, FirstRate™, Flexstar®, Gramoxone® Extra, Reflex®, Storm™, or Ultra Blazer®. Tank mix Roundup Ultra® with this product to aid in control of certain broadleaf weeds only in Roundup Ready® soybeans. Refer to the Roundup Ultra® label for rates and weeds controlled and other restrictions. Do not apply certain herbicides with this product (refer to the PRECAUTIONS section).

**This product plus Ultra Blazer® for Enhanced Control of Common Ragweed and Pigweeds (Including tall and common waterhemp).**

The control of several broadleaf weeds including common and giant ragweed, pigweed species and waterhemp will be enhanced by the addition of Ultra Blazer® to this product at the specified rates. Refer to the Ultra Blazer® label for additional weeds controlled.

Apply this product at the rate of 4 ounces per acre. Apply Ultra Blazer® at the following rates, depending on weed size:

	Ultra Blazer® Rate (ounces per acre)*		
	8-10 oz.	12-14 oz.	16-20 oz.
<b>Weeds</b>	<b>Weed Size</b>		
Common ragweed	1-4"	4-6"	6-8"
Pigweed species			
Waterhemp, tall			
Waterhemp, common			
Giant Ragweed		1-6"	6-8"***

\*Use the higher rate if the weed population is high or if common ragweed is present.

\*\*\*Use the 20 ounce/acre rate if giant ragweed is 6-8 inches tall.

**Ultra Blazer® Sequential Application Rates**

When applying Ultra Blazer® following an application (sequential) of this product, apply Ultra Blazer® at the following rates:

	Ultra Blazer® Rate (ounces per acre)*		
	10-12 oz.	14-16 oz.	18-24 oz.
<b>Weeds</b>	<b>Weed Size</b>		
Common ragweed	1-4"	4-6"	6-8"
Pigweed species			
Waterhemp, tall			
Waterhemp, common			

Giant Ragweed		1-6"	6-8"***
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\*Use the higher rate if the weed population is high or if common ragweed is present.

\*\*Use the 24 ounce/acre rate if giant ragweed is 6-8 inches tall.

**This product plus FirstRate™ for Enhanced Control of Ragweed Species**

Tank mix FirstRate™ with this product to aid in the control of common and giant ragweed. Refer to the FirstRate™ label for specified rates and precautions.

**This product plus Sulfentrazone Containing Compounds**

This product provides control of many grasses and broadleaf weeds when applied to the soil or applied postemergence to weeds. It also provides season-long control of many weeds. Tank mix Sulfentrazone-containing products such as Authority® or Canopy® XL with this product in soil applications for enhanced weed control in soybeans.

Apply this product postemergence to soybeans previously treated with sulfentrazone-containing products.

**Note:** Sulfentrazone-containing products are only labeled for soil applications to soybean.

**This product plus Harmony® GT for Enhanced Control of Common Lambsquarters**

For optimal weed control management, apply a soil applied grass herbicide such as Prowl®, TRI-4®, or trifluralin followed by this product postemergence. If common lambsquarters are not adequately controlled by the soil applied treatment, tank mix Harmony® GT with this product for additional activity.

The addition of Harmony® GT to this product causes severe injury and/or stunting to soybeans, especially when applied under hot, humid conditions. The user assumes all risks and consequences associated with applications of this tank mixture to soybeans.

When tank mixing Harmony® GT with this product, use the following rates:

**This product** – 4 ounces per acre

**And**

**Harmony® GT** – 1/24 ounce per acre

Add to the spray mixture:

**Non-ionic surfactant** – 1 quart per 100 gallons (0.25% v/v)

**And**

**Liquid nitrogen based fertilizer** (such as 28%N, 32%N, or 10-34-0) at the rate of 1.25 to 2.5 gallons per 100 gallons of spray solution. Instead of a liquid fertilizer, use a spray grade ammonium sulfate at the rate of 12-15 lbs. per 100 gallons of spray solution.

Apply to 1-3 trifoliolate stage soybeans only.

**Other Tank Mix Combinations**

**This product plus Scepter® DG for Volunteer Corn and Common Sunflower**

Apply an application of this product plus Scepter® DG to states or portions of states described as Region 2 or Region 3 on the Scepter® DG label, and the following counties in South Dakota: Yankton, Bon Homme, Hutchinson, McCook, Hanson, Davison, Miner, Lake and Kingsbury. Refer to the respective labels for the specific use area. Do not use this tank mixture in North Dakota or in Minnesota north of Highway 210.

Apply the products at the following rate:

**This product** – 4 ounces/A

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**And**

**Scepter® DG – 0.53 ounces/A\***

\*At the rate of 0.53 ounces per acre, one 14-ounce soluble bag of Scepter® DG will treat 26.4 acres.

A tank mix of this product plus Scepter® DG will suppress volunteer corn. Apply to volunteer corn up to 10 inches in height. This tank mixture will also enhance the control of common sunflowers. Apply to sunflowers up to 3 inches in size. Refer to the Scepter® DG label for additional weeds controlled.

A postemergence application of this product plus Scepter® DG will NOT suppress volunteer CLEARFIELD® corn (field corn hybrids that possess tolerance or resistance to imidazolinone herbicides i.e., this product and Scepter® DG).

**APPLICATIONS TO SOYBEANS IN NORTH DAKOTA AND MINNESOTA (North of Highway 210)**

**Application Rate:**

Apply this product at 3 ounces per acre postemergence only.

POSTEMERGENCE		
Weeds Controlled	Maximum Leaf Stage	Size (Inches)
Cocklebur, common*	4	1-4
Kochia (non-ALS resistant)	4	1-3
Mustard, species	4	1-3
Nightshade,		
black	4	1-3
Eastern black	4	1-3
hairy	4	1-3
Pigweed, redroot	4	1-4
Wild oats**	3	1-4

\*Add Ultra Blazer® at the rate of 12 ounces per acre to the spray solution for control of common cocklebur.

\*\*This product will reduce competition from wild oats.

**ROTATIONAL CROP RESTRICTIONS**

Plant the following rotational crops after applying this product at the specified rate: (Planting earlier than the specified interval results in crop injury).

**Anytime** – Lima beans, Southern peas, Soybeans, Peanuts, CLEARFIELD® corn hybrids (resistant/tolerant to this product)

**4 Months after application of this product** – Alfalfa, Clover, Rye (except in North Dakota and Minnesota north of Highway 210), Wheat, Edible beans and peas (other than lima beans and Southern peas)

**8 ½ Months after application of this product** – Field corn, Field corn grown for seed

**9 ½ Months after application of this product** – Barley, Tobacco

**18 Months after application of this product** – Cotton\*, Lettuce, Oats, Popcorn, Rye (in North Dakota and Minnesota north of Highway 210), Safflower, Sorghum, Sunflower, Sweet Corn

**26 Months after application of this product**– Potatoes, Flax

**40 Months after application of this product** – All crops not listed elsewhere in this ROTATIONAL CROP GUIDELINE\*\*



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\*Refer to the following table for a Cotton Rotation Interval following product application to alfalfa or clover grown for seed production. These guidelines do not apply to product applications made to alfalfa or clover grown for hay or forage (Use the 18 month Rotational Interval above).

**Cotton Rotation Following Application of this product to Alfalfa Grown for Seed**

Irrigation/Precipitation Requirements	Rotation Interval	
	Less than 3 acre feet or 36" of water	40 months
Greater than or equal to 3 acre feet or 36" of water	18 months	

\*\*Following 40 months after an application of this product, and before planting any crop not listed elsewhere in the ROTATIONAL CROP GUIDELINE, a successful field bioassay must be completed. The field bioassay consists of a test strip of the intended rotational crop planted across the previously treated field and grown to maturity. The test strip should include low areas and knolls, and include variations in soil type and pH. If no crop injury is evident in the test strip, plant the intended rotational crop the following year.

Sugar beet production can be reduced when grown in soil conditions with a pH less than 6.5. If the field is limed to adjust pH prior to planting rotational crops not listed in the ROTATIONAL CROP GUIDELINE, apply the lime at least 12 months prior to planting the rotational crop.

When this product is used in accordance with label directions, it is expected to result in normal growth of rotational crops in most situations; however, various environmental and agronomic factors make it impossible to eliminate all risks associated with the use of this product and therefore, rotational crop injury is always a possibility.

**EXCEPTIONS TO ROTATIONAL CROP RESTRICTIONS**

**Barley:** (States of Delaware, Indiana, Kentucky, Maryland, New Jersey, Ohio, Pennsylvania, and Virginia only). Plant barley 4 months following application of this product in these states.

**CLEARFIELD® canola:** Plant CLEARFIELD® varieties of canola, such as Pioneer 45A71 and Pioneer 46A76 as a rotational crop the next season after an application of this product at label rates on registered crops.

**Corn inbred lines:** Plant corn inbred seed lines the year following an application of this product. Several seed companies have tested a wide range of inbreds for sensitivity to product soil residues and have reported good crop safety. However, due to the proprietary nature of seed production, Nufarm has not been given access to the inbred data. Growers are directed to contact the seed company for information and instructions regarding the planting of corn grown for seed in fields treated with this product the previous year. Since growing conditions, environmental conditions and grower practices are beyond the control of Nufarm, all risks and consequences associated with planting seed corn inbreds into fields treated previously with this product shall be assumed by the user.

**Sweet corn and popcorn varieties:** (States of Illinois, Indiana, Iowa, Minnesota, Ohio, Tennessee, and Wisconsin only). Plant sweet corn and popcorn varieties the year following an application of this product. Some injury can occur in sweet corn and popcorn varieties when planted at less than 18 months following an application of this product. Before planting sweet corn for processing, contact the processor company for information and instructions regarding the tolerance of sweet corn varieties planned for fields treated with this product the previous year. DO NOT plant fresh market sweet corn varieties prior to 18 months after product use. Before planting popcorn, contact the popcorn company for information and instructions regarding the tolerance of popcorn varieties planned for fields treated with this product the previous year.

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Since growing conditions, environmental conditions and grower practices are beyond the control of Nufarm, all risks and consequences associated with planting sweet corn or popcorn varieties into fields treated previously with this product shall be assumed by the user.

Stunting and maturity delay or other adverse effects result when sweet corn or popcorn are planted following product use.

**Certain vegetable crops: (States of Alabama, Delaware, Florida, Georgia, Indiana, Kentucky, Maryland, New Jersey, North Carolina, Pennsylvania, South Carolina, and Virginia only):** Plant the following crops 18 months following the last application of this product: bahiagrass, cabbage, cantaloupe, cucumber, Irish potato, onion, sweet potato transplants, sweet pepper transplants, tomato transplants, and watermelon.

**Cotton (States of North Carolina, South Carolina and Virginia only):** Plant cotton nine and one-half months after an application of this product if all of the following criteria are met:

- This product applied to peanuts only
- Soil texture is sandy loam or loamy sand only
- More than 16 inches of rainfall and/or irrigation is received following application of this product through October of the application year.

**Field Corn and Field Corn Grown for Seed: (Arizona, Hawaii, Idaho, Montana, Nevada, Oregon, Utah, Washington, and Wyoming):** 9 ½ months after application of this product.

**Snap Beans:** Replant snap beans at any time after application of this product when applied at no more than 1.5 ounces per acre in the use areas defined on this label.

**Wheat:** Plant wheat 3 months following product application in areas east of interstate highway I-35.

**When this product is applied at no more than 3 ounces per acre to edible legumes in the use areas described, the following rotational restrictions apply:**

- Plant snap beans 3 months and barley 4 months following an application of this product.
- Plant chickpeas, lentils, and peas anytime following a product application.

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## PRECAUTIONS

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### CLEARFIELD® CORN

Do not harvest corn (silage, fodder, or grain) for an interval of at least 45 days after application of this product. DO NOT graze or feed treated corn forage, silage, fodder, or grain for at least 45 days after an application of this product.

Use all soil insecticides, including labeled banded or in-furrow applications, in combination with Pioneer imidazolinone resistant (IR) corn hybrids.

Imidazolinone tolerant hybrids from other seed companies occasionally exhibit injury symptoms when soil insecticides are used in combination with this product. Do not use Counter® 15G systemic insecticide-nematicide in-furrow with imidazolinone tolerant corn hybrids. Use other registered organophosphate insecticides such as banded applications of Counter® 15G, Counter® CR or Thimet® soil and systemic insecticide, or in-furrow applications of Counter® CR or other registered carbamates or pyrethroid insecticides in combination with applications of this product. Nufarm has not tested all hybrids in which the imidazolinone tolerance trait is claimed and cannot be responsible for factors which are beyond its control, such as growing conditions, environmental conditions, grower practices and the specific genetics of each hybrid tolerance to product and insecticide applications.

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### **NON-GRASS ANIMAL FEED (ALFALFA AND CLOVER)**

Do not feed, graze or harvest alfalfa or clover for 30 days following an application of this product to alfalfa or clover.

### **SOYBEANS**

If soybeans are furrow irrigated, till the soil prior to planting winter wheat or barley. The beds should be broken up and the soil mixed with tillage equipment set to cut 4-6 inches deep.

Use an interval of at least 85 days between an application of this product and soybean harvest.

Make applications of this product before soybean bloom.

Do not graze or feed treated soybean forage, hay or straw to livestock.

Do not tank mix this product with clomazone containing herbicides (Command®). Apply this product postemergence following a soil application of Command®.

### **PEANUTS**

Do not graze or feed treated peanut forage, vines, hay or straw to livestock.

Allow at least 85 days between an application of this product and peanut harvest.

Apply Classic® postemergence to peanuts following an application of this product. Refer to the Classic® label for specific use instructions.

Do not apply Pursuit® Plus EC to peanuts the same year as this product.

### **EDIBLE VEGETABLE LEGUMES**

Allow at least 30 days between application and harvest of snap beans, lima beans, chickpeas (Arizona and California), English peas, and Southern peas.

Allow at least 60 days between application and harvest of dry edible peas, lentils, chickpeas, red kidney beans, and other dry bean or pea types listed on this label.

### **GENERAL (ALL CROPS)**

Full rate application of products containing chlorimuron ethyl (Classic®, Canopy® XL, Synchrony®, etc.), chloransulam-methyl (FirstRate™), flumetsulam (Hornet™, Python™), imazaquin (Squadron®, Scepter® 70DG) or products containing imazethapyr (Pursuit® DG or Pursuit® Plus EC) the same year as this product increases the risk of injury to sensitive follow crops. Consult labels for specified uses of these products in combinations.

Use only rotational crops harvested at maturity for feed or food.

In the event of a crop loss due to weather, soybeans, peanuts or CLEARFIELD® corn can be replanted. Do not work the soil deeper than 2 inches.

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### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**PESTICIDE STORAGE:** Keep from freezing. Do not store below 32°F. Avoid contamination of feed or foodstuffs.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

#### CONTAINER DISPOSAL:

##### Plastic Containers:

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 offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

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