OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION
WASHINGTON, D.C. 20460

November 5th, 2025

Christa Ellers-Kirk
Product Registration Manager
BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709-3528

Subject: Label Amendment - Registration Review Mitigation for Imazamox (Acetolactate Synthase (ALS) Inhibiting Herbicides)
Product Name: RAPTOR DG HERBICIDE
EPA Registration Number: 241-380
Case Number: 478844
Application Dates: April 9, 2020

Dear Christa Ellers-Kirk:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Imazamox (Acetolactate Synthase (ALS) Inhibiting Herbicides) Interim Decision, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

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

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling and must be used at your next label printing. You must

submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Caleb Carr by phone at 202-566-0636, or via email at carr.caleb@epa.gov.

Sincerely,

Maryam K. Muhammad-Perch, Team Lead
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

ENCLOSURE: Stamped label

BASF
We create chemistry

Imazamox	Group	2	Herbicide

RAPTOR® DG
Herbicide

FOR USE ONLY IN SOYBEANS

ACTIVE INGREDIENT:

Imazamox 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-(methoxymethyl)-3-pyridinecarboxylic acid	70.0%
INERT INGREDIENTS	30.0%
TOTAL	100.0%

RAPTOR DG in a water soluble packet.
(1 packet contains 0.08 pounds of active ingredient as the free acid)

Patent No. 5,334,576
EPA Reg. No. 241-380 EPA Est. No.

KEEP OUT OF REACH OF CHILDREN

CAUTION/PRECAUCION

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

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.

IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.

IF INHALED: Remove victim to fresh air.

In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).

Do not remove packages from container except for immediate use.

See Next Page for Additional Precautionary Statements

BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709

Net Contents: 5 X 1.82 ounce packets

ACCEPTED
11/05/2025
Under the Federal Insecticide, Fungicide and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 241-380

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION!

Causes moderate eye irritation. Harmful if absorbed through skin or inhaled. Avoid breathing dust. Avoid contact with skin, eyes or clothing.

Personal Protective Equipment (PPE):

Applicators and other handlers must wear:

-long-sleeved shirt and long pants
-waterproof gloves
-shoes plus socks

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:

Users Should:

-Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

-Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENGINEERING CONTROLS STATEMENT

Water soluble packets, when used correctly, qualify as a closed mixing/loading system under the Worker Protection Standard [40 CFR 170.607(d)]. Mixers and loaders handling this product while it is enclosed in intact water soluble packets may elect to wear reduced PPE of long-sleeved shirt, long pants, shoes, socks. When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

ENVIRONMENTAL HAZARDS

This pesticide may be hazardous to plants outside the treated area. DO NOT apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Offsite movement from spray drift, volatilization, and runoff may be hazardous to neighboring crops and vegetative habitat utilized for food and cover by wildlife and aquatic organisms.

DO NOT contaminate water when disposing of equipment washwaters.

Nontarget Organism Advisory Statement: This product is toxic to plants and may adversely impact the forage and habitat of nontarget organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of nontarget organisms by following label directions intended to minimize spray drift.

Groundwater Advisory Statement: This chemical has properties and characteristics associated with chemicals detected in groundwater. This chemical may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

Surface Water Advisory Statement: This product may impact surface water quality due to runoff of rain water. This is especially true for poorly draining soils and soils with shallow ground water. This product is classified as having high potential for reaching surface water via runoff for several months or more after application.

A level, well-maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams, and springs will reduce the potential loading of **Raptor® DG herbicide** from runoff water and sediment. Runoff of this product will be reduced by avoiding applications when rainfall or irrigation is expected to occur within 48 hours.

DIRECTIONS FOR USE

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

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.

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

Observe all cautions and limitations on this label and on the labels of products used in combination with **Raptor® DG herbicide**. Do not use **RAPTOR DG** other than in accordance with the instructions set forth on this label. The use of **RAPTOR DG** not consistent with this label may result in injury to crops. Keep containers closed to avoid spills and contamination.

DO NOT apply this product through any type of irrigation system.

AGRICULTURAL USE REQUIREMENTS

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

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

• Waterproof gloves

• Shoes plus socks

STORAGE AND DISPOSAL

PROHIBITIONS:	DO NOT contaminate water, food or feed by storage or disposal.
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:	DO NOT reuse outer packaging. Dispose of outer packaging in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned stay out of smoke.

DISCLAIMER

The label instructions for the use of this product reflect the opinion of experts based on research and field use. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, herbicide resistant weed populations, or the use of, or application of the product contrary to label instructions, all of which are beyond the control of BASF Corporation. All such risks shall be assumed by the user.

BASF Corporation shall not be responsible for losses or damages resulting from use of this product in any manner not set forth on this label. User assumes all risks associated with the use of this product in any manner not specifically set forth on this label.

BASF CORPORATION warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risks referred to above. **BASF CORPORATION DOES NOT MAKE OR AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED AND EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

BUYER'S EXCLUSIVE REMEDY AND BASF CORPORATION'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF RAPTOR® DG HERBICIDE. In no case shall BASF Corporation or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product.

USES WITH OTHER PRODUCTS (TANK-MIXES)

If this product is used in combination with any other product except as specifically recommended in writing by BASF Corporation, then BASF Corporation shall have no liability for any loss, damage or injury arising out of its use in any such combination not so specifically recommended. If used in combination recommended by BASF Corporation, the liability of BASF Corporation shall in no manner extend to any damage, loss or injury not directly caused by the inclusion of the BASF Corporation product in such combination use, and in any event shall be limited to return of the amount of the purchase price of the BASF Corporation product.

GENERAL INFORMATION

RAPTOR DG is effective in controlling weeds in conservation tillage and conventional production systems. **RAPTOR DG** can be applied early postemergence in soybeans but before the bloom stage. Refer to the specific treatment under the "APPLICATION INFORMATION" section of the label.

The mode of weed killing activity involves uptake of **RAPTOR DG** by foliage and/or weed roots and rapid translocation to the growing points. After **RAPTOR DG** application, susceptible weeds may show yellowing and weed growth will stop. Susceptible weeds stop growing and either die or are not competitive with the crop. Adequate soil moisture is important for optimum **RAPTOR DG** activity. When adequate soil moisture is present, **RAPTOR DG** will provide residual activity of susceptible germinating weeds; activity on established weeds will depend on the weed species and the location of its root system in the soil. A timely cultivation after a **RAPTOR DG** application may improve general weed control.

Use of **RAPTOR DG** 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 possible.

Occasionally, internode shortening and/or temporary yellowing of crop plants may occur following **RAPTOR DG** applications. These effects can be more pronounced if crops are growing under stressful environmental or hot and humid conditions. These effects occur infrequently and are temporary. Normal growth and appearance should resume within 1 to 2 weeks.

Replanting: If replanting is necessary in a field previously treated with **RAPTOR DG**, the field may be replanted to soybeans. Rework the soil no deeper than 2 inches. DO NOT apply a second treatment of **RAPTOR DG**.

Mode of Action (MOA)

Imazamox, the active ingredient in **Raptor DG** is a **Group 2** (WSSA) herbicide. Herbicides in this group inhibit acetolactate synthase (ALS) or acetohydroxyacid synthase (AHAS), a key enzyme in the biosynthesis of the branched-chain amino acids isoleucine, leucine, and valine. Meristematic chlorosis, followed by general foliar chlorosis and eventual plant death results from events occurring in response to ALS inhibition and low branched-chain amino acid production.

Weed Resistance Management

Herbicide resistance could be suspected when the following three indicators occur at a site:

- There is failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds.
- There is a spreading patch of non-controlled plants of a particular weed species.
- The surviving plants are mixed with controlled individuals of the same species.

Contact your local sales representative, crop advisor, or extension agent to find out if suspected resistant weeds to this MOA have been found in your region.

Weed resistance to Group 2 herbicides is common in a number of weed species and in populations of naturally occurring biotypes* of some of the weeds listed on this label, which may not be effectively controlled by this and/or other products with the ALS/AHAS enzyme-inhibiting mode of action.

Naturally occurring biotypes* of some of the weeds listed on this label may 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[1], Basis[1], Classic[1], Concert[1], Exceed[2], Permit[3], Pinnacle[1], etc.), the sulfonamides (e.g., Broadstrike[4], etc.) and the pyrimidyl benzoates (e.g. Staple[l], etc.). If naturally occurring ALS/AHAS resistant biotypes are present in a field, **RAPTOR DG** 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.

Raptor® DG herbicide is very active against many broadleaf and grass weed species. For long-term weed management, use at least two herbicides with different modes of action to reduce the potential for weed resistance. Crop (and herbicide) rotation is effective in managing weed resistance where herbicides of different modes of action are used. Tillage, where practical (such as in fallow production or before planting), is effective in controlling weeds to minimize resistance development. Additionally, a burndown herbicide during fallow or before planting is effective in reducing weed resistance development.

Resistance management should be part of a diversified weed control strategy that integrates chemical, cultural and mechanical (tillage) control tactics. Cultural control tactics include crop rotation, proper fertilizer placement and optimum seeding rate/row spacing. Consult your local BASF representative, state cooperative extension service, professional consultants, or other qualified authority to determine appropriate actions if you suspect resistant weeds.

Chemical Control

- Start clean with tillage or an effective burn-down herbicide program.
- **DO NOT** rely on a single herbicide mode of action for weed control.
- Follow labeled application rate and weed growth stage specifications.
- The use of preemergence herbicides that provide soil residual control of broadleaf and grass weeds is recommended to reduce early season weed competition and allow for timely in-crop postemergence herbicide applications.
- Avoid application of herbicides with the same mode of action more than twice a season.
- Use tank mixes and sequential applications with other herbicides possessing different modes of action (MOAs) that are also effective on the target weeds.

Scouting and Containment

- Scout fields after herbicide application to identify areas where weed control was ineffective.
- Control weed escapes with herbicides possessing a different mode of action or use a mechanical control measure. Weed escapes should not be allowed to reproduce by seed or to proliferate vegetatively.
- Scout fields before herbicide application to ensure herbicides and rates will be optimum for the weed species and weed sizes present. Consider application and environmental factors that may have led to incomplete control.
- Contact your herbicide supplier and/or your local BASF representative to report weed escapes.
- Clean equipment before moving to a different field to avoid spread of resistant weeds.

Additional state restrictions and requirements may apply. The applicator must comply with any additional state requirements and restrictions.

MIXING INSTRUCTIONS

POSTEMERGENCE APPLICATIONS OF **RAPTOR DG** REQUIRE THE ADDITION OF AN ADJUVANT **AND** A NITROGEN FERTILIZER SOLUTION.

I. ADJUVANTS

CROP OIL CONCENTRATE: A petroleum or vegetable seed based crop oil concentrate (such as **SUN-IT II**[5]) may be used. **SUN-IT II** is recommended when weeds are under moisture or temperature stress. Use **SUN-IT II** or other methylated seed oils at the rate of 1.5 to 2 pints per acre (use the higher rate when weeds are at the maximum label size). or use a crop oil concentrate at 2 pints per acre.

OR

SURFACTANTS: Use a nonionic surfactant containing at least 80% active ingredient. Apply the surfactant at the rate of 1 quart per 100 gallons of spray solution. An organo-silicone surfactant may be used in place of a non-ionic surfactant.

AND

II. NITROGEN FERTILIZER SOLUTION

Recommended nitrogen based fertilizers include liquid fertilizers (such as 28%N, 32%N or 10-34-0) at the rate of 1-2 quarts per acre. Use the higher rate when weeds are under moisture or temperature stress. Instead of a liquid fertilizer, spray grade ammonium sulfate may be used at the rate of 2.5 pounds per acre.

NOTE: Nitrogen fertilizer solution is not required when applied in use areas south of Interstate Highway 40.

Fill the spray tank one-third to one-half full with clean water. Add the required number of **RAPTOR DG** soluble packets to the spray tank while agitating. Add adjuvants and fill the remainder of the tank with water.

Instructions for Using Water Soluble Packages Directly into Spray Tanks:

Water Soluble Packages (WSPs) are designed to dissolve in water. Agitation m be used, if necessary, to help dissolve the WSP. Failure to follow handling and mixing instructions can increase your exposure to the pesticide products in WSPs. WSPs, when used properly, qualify as a closed mixing/loading system under the Agricultural Worker Protection Standard [40 CFR 170.607(d)].

Handling Instructions

Follow these steps when handling pesticide products in WSPs.

1. Mix in spray tank only.
2. Handle WSP(s) in a manner that protects package from breakage and/or unintended release of contents. If package is broken, put on PPE required for clean-up and then continue with mixing instructions.
3. Keep the WSP(s) in outer packaging until just before use.
4. Keep the WSP dry prior to adding to the spray tank.
5. Handle with dry gloves and according to the label instructions for PPE.
6. Keep WSP intact. Do not cut or puncture WSP.
7. Reseal the WSP outer packaging to protect any unused WSP(s).

Mixing Instructions

Follow the steps below when mixing this product, including if tank mixed with other pesticide products. If being tank mixed, the mixing directions 1 through 9 below take precedence over the mixing directions of the other tank mix products. WSPs may, in some cases, be mixed with other pesticide products so long as the directions for use of all mixed products do not conflict. Do not tank mix this product with products that prohibit tank mixing or have conflicting mixing directions.

1. If a basket or strainer is present in the tank hatch, remove prior to adding the WSP to the tank.
2. Fill tank with water to approximately one-third to one-half of the desired final volume of spray.
3. Stop adding water and stop any agitation.
4. Place intact/unopened WSP(s) into the tank.
5. Do not spray water from a hose or fill pipe to break or dissolve the WSP(s).
6. Start mechanical and recirculation agitation from the bottom of tank without using any overhead recirculation, if possible. If overhead recirculation cannot be turned off, close the hatch before starting agitation.
7. Dissolving the WSP(s) may tank up to 5 minutes or longer, depending on water temperature, water hardness and intensity of agitation.
8. Stop agitation before tank lid is opened.
9. Open the lid to the tank, exercising caution to avoid contact with dusts or spray mix, to verify that the WSPs have fully dissolved and the contents have been thoroughly mixed into the solution.
10. Do not add other allowed products or complete filling the tank until the bags have fully dissolved and pesticide is thoroughly mixed.
11. Once the WSP have fully dissolved and any other products have been added to the tank, resume filling the tank with water to the desired level, close the tank lid, and resume agitation.
12. Use the spray solution when mixing is complete.
13. Maintain agitation of the diluted pesticide mix during transport and application.
14. It is unlawful to use any registered pesticide, including WSPs, in a manner inconsistent with its label.

TANK MIX COMBINATIONS WITH OTHER HERBICIDES

If other herbicides or other spray tank components are tank-mixed with **RAPTOR DG**, while agitating, add components in the following order and thoroughly mix after adding each component:

1) Fill spray tank one-third to one-half full with clean water.
2) Add soluble packet products and thoroughly mix.
3) Add WP (wettable powder), DG (dispersible granule), DF (dry flowable) or liquid flowable formulations not in soluble packets.
4) Add **Raptor® DG herbicide** and thoroughly mix.
5) Add other aqueous solution products.
6) Add EC (emulsifiable concentrate) products.
7) Add surfactant or crop oil to the spray tank.
8) Add nitrogen fertilizer solution.
9) While agitating, fill the remainder of the tank with water.

DO NOT add **RAPTOR® DG herbicide** packets directly into nitrogen fertilizer solution. Add nitrogen fertilizer only after **RAPTOR DG** is completely dissolved.

To avoid injury to sensitive crops, spray equipment used for **RAPTOR DG** applications must be drained and thoroughly cleaned with water before being used to apply other products.

When **RAPTOR DG** 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. **RAPTOR DG** cannot be mixed with any product containing a label prohibiting such mixtures.

SPRAYING INSTRUCTIONS

Mandatory Spray Drift Management

Aerial Applications:

- Do not release spray at a height greater than 10 ft above the ground or vegetative canopy, unless a greater application height is necessary for pilot safety.
- Applicators are required to use a medium or coarser droplet size (ASABE S641).
- Applicators must use 1/2 swath displacement upwind at the downwind edge of the field.
- Do not apply when wind speeds exceed 15 mph at the application site. If the windspeed is greater than 10 mph, the boom length must be 65% or less of the wingspan for fixed wing aircraft and 75% or less of the rotor diameter for helicopters. Otherwise, the boom length must be 75% or less of the wingspan for fixed-wing aircraft and 90% or less of the rotor diameter for helicopters.
- Do not apply during temperature inversions.

Ground Boom Applications:

- User must only apply with the release height recommended by the manufacturer, but no more than 3 feet above the ground or crop canopy.
- Applicators are required to use a medium or coarser droplet size (ASAE S572.3).
- Do not apply when wind speeds exceed 15 miles per hour at the application site.
- Do not apply during temperature inversions.

SPRAY DRIFT ADVISORIES

THE APPLICATOR IS RESPONSIBLE FOR AVOIDING OFF-SITE SPRAY DRIFT. BE AWARE OF NEARBY NON-TARGET SITES AND ENVIRONMENTAL CONDITIONS.

IMPORTANCE OF DROPLET SIZE

An effective way to reduce spray drift is to apply large droplets. Use the largest droplets that provide target pest control. While applying larger droplets will reduce spray drift, the potential for drift will be greater if applications are made improperly or under unfavorable environmental conditions.

Controlling Droplet Size – Ground Boom:

- **Volume** - Increasing the spray volume so that larger droplets are produced will reduce spray drift. Use the highest practical spray volume for the application. If a greater spray volume is needed, consider using a nozzle with a higher flow rate.
- **Pressure** - Use the lowest spray pressure recommended for the nozzle to produce the target spray volume and droplet size.
- **Spray Nozzle** - Use a spray nozzle that is designed for the intended application. Consider using nozzles designed to reduce drift.

Controlling Droplet Size – Aircraft:

• **Adjust Nozzles** - Follow nozzle manufacturers' recommendations for setting up nozzles. Generally, to reduce fine droplets, nozzles should be oriented parallel with the airflow in flight.

BOOM HEIGHT – Ground Boom: For ground equipment, the boom should remain level with the crop and have minimal bounce.

RELEASE HEIGHT - Aircraft: Higher release heights increase the potential for spray drift.

SHIELDED SPRAYERS

Shielding the boom or individual nozzles can reduce spray drift. Consider using shielded sprayers. Verify that the shields are not interfering with the uniform deposition of the spray on the target area.

TEMPERATURE AND HUMIDITY

When making applications in hot and dry conditions, use larger droplets to reduce effects of evaporation.

TEMPERATURE INVERSIONS

Drift potential is high during a temperature inversion. Temperature inversions are characterized by increasing temperature with altitude and are common on nights with limited cloud cover and light to no wind. The presence of an inversion can be indicated by ground fog or 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. Avoid applications during temperature inversions.

WIND

Drift potential generally increases with wind speed. AVOID APPLICATIONS DURING GUSTY WIND CONDITIONS.

• Applicators need to be familiar with local wind patterns and terrain that could affect spray drift.

DO NOT apply when wind velocity is greater than 15 mph, when temperature inversion conditions exist, or when spray may be carried to sensitive crops. Sensitive crops include but are not limited to leafy vegetables and sugar beet.

GROUND APPLICATION:

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

To ensure thorough coverage, use a minimum of 20 gallons of water per acre when applying **Raptor® DG herbicide** to minimum or no-till crops. 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 recommendation). Use only flat-fan nozzle tips.

Avoid overlaps when spraying.

GROUND APPLICATION WITH A LOW VOLUME SPRAYER

RAPTOR DG may be applied to soybeans with a low volume (Spra-Coupe[6]-type) sprayer. When applying **RAPTOR DG** with a low volume sprayer, spray the weeds before they reach the maximum size listed in this label. Adequate control of weeds is dependent upon good spray coverage of the weeds. The sprayer must be calibrated to deliver the recommended spray volume and pressure to ensure adequate spray coverage of the weeds.

When applying **RAPTOR DG** with a low volume sprayer, apply a minimum of 10 gallons per acre of spray solution with a nozzle pressure between 40-60 psi for optimum coverage.

AERIAL APPLICATION:

RAPTOR DG herbicide may be applied by air to soybeans.

Uniformly apply with properly calibrated aerial equipment in 5 or more gallons of water per acre. The addition of an adjuvant 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 nitrogen fertilizer solution at the rate of 1 quart per acre. (See instructions under MIXING INSTRUCTIONS).

To avoid injury to sensitive crops from drift, aerial applicators must adhere to the following SPECIAL AERIAL USE DIRECTIONS AND PRECAUTIONS.

- Nozzles must be pointed toward the rear of the aircraft. The downward angle of the nozzle should not be greater than 20 degrees.
- To minimize wing-tip vortex roll, nozzles or spray boom must not be located any closer to end of wing or rotor than three-fourths the distance from the center of the aircraft.
- Use a maximum spray pressure of 40 psi.
- A buffer zone must be established between the area to be sprayed and sensitive crops.
- DO NOT spray when wind velocity is greater than 15 mph.

Applicator is responsible for any loss or damage which results from spraying **Raptor® DG herbicide** in a manner other than recommended in this label. In addition, applicator must follow all applicable state and local regulations and ordinances in regard to spraying.

APPLICATION INFORMATION

Apply RAPTOR DG herbicide as a postemergence treatment when weeds are actively growing and before they exceed a height of 5 inches, unless otherwise indicated. Delay application until the majority of the weeds are at the recommended growth stage. Application timing should be based on weed size and not crop growth stage. Apply **RAPTOR DG** to crops and weeds that are actively growing.

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

When **RAPTOR DG** is applied postemergence, absorption will occur through both the roots and foliage. Susceptible weeds stop growing and either die or are not competitive with the crop. **RAPTOR DG** not only controls many existing broadleaf and grass weeds when applied postemergence, it also provides activity on susceptible weeds that may emerge shortly after application.

For maximum weed control, cultivate 7 - 10 days following a postemergence **RAPTOR DG** application. This timely cultivation will enhance residual weed activity, especially under dry conditions.

RAPTOR DG should be applied a minimum of one hour before rainfall or overhead irrigation.

NO-TILL/MINIMUM TILLAGE AND DOUBLE CROP SOYBEANS

RAPTOR DG controls existing weeds and provides residual activity on some weeds when applied early postemergence to soybeans in no-till or minimum tillage and double crop soybean production systems. The application must be applied after emergence of the crop. (Refer to the WEEDS CONTROLLED chart for weeds controlled and recommended weed size).

To ensure thorough coverage, use a minimum of 20 gallons of water per acre in no-till or minimum tillage systems. Use higher gallonage for fields with dense vegetation or heavy crop residues.

USE RATE

APPLY 0.73 OUNCES OF RAPTOR DG HERBICIDE WHEN PRECEDED BY A FULL RATE OF A REGISTERED SOIL APPLIED GRASS HERBICIDE LIKE PROWL® 3.3 EC HERBICIDE
(1 soluble packet treats 2.5 acres)

OR

APPLY 0.91 OUNCES OF RAPTOR DG HERBICIDE PER ACRE IN A TOTAL POSTEMERGENCE HERBICIDE PROGRAM
(1 soluble packet treats 2 acres)

RAPTOR DG may be applied postemergence at a broadcast rate of 0.73 ounces per acre when preceded with a full rate of a registered soil applied grass herbicide like **PROWL 3.3 EC**. At this rate 1 soluble packet (1.82 ounces of product) will treat 2.5 acres. **RAPTOR DG** may be applied postemergence at a broadcast rate of 0.91 ounces per acre (including minimum and no-till). At this broadcast rate, one soluble packet of **RAPTOR DG** will treat 2 acres of soybeans.

NOTE: Only one application of **RAPTOR DG** may be made during the season.

WEEDS CONTROLLED

When applied as directed, **Raptor® DG herbicide** will control or suppress the weeds listed below as indicated. Refer to the MIXING INSTRUCTIONS section for recommendations when weeds are at the maximum recommended growth stage, or are under stress.

BROADLEAF WEEDS CONTROLLED USING A SEQUENTIAL* PROGRAM

* Soil applied grass herbicide such as **PROWL 3.3 EC** herbicide followed by a postemergence application of **RAPTOR DG** herbicide at a broadcast rate of 0.73 ounces per acre.
(1 packet **RAPTOR DG** per 2.5 acres)

BROADLEAF WEEDS	RECOMMENDED HEIGHT (inches)
Artichoke, Jerusalem	3-8
Carpetweed	2-4
Chickweed, common	2-5
Cocklebur, common	2-8
Jimsonweed	2-6
Kochia	1-4
Lambsquarters, common	2-5
Mustard spp.	2-8
Nightshade,	
black	2-5
Eastern black	2-5
hairy	2-5
Pigweed,	
Palmer amaranth**	2-4
prostrate	2-5
redroot	2-8
smooth	2-8
spiny	2-5
Purslane, common	1-3
Pusley, Florida	2-4
Radish, wild	2-4
Ragweed, giant	2-5
Smartweed,	
ladysthumb	2-5
Pennsylvania	2-5
Spurge, annual	2-4
Sunflower	2-8
Velvetleaf	2-8
Waterhemp,**	
tall	2-5
common	2-5

** Control of light to moderate populations only. For control of heavier populations see the HERBICIDE COMBINATION section

BROADLEAF WEEDS SUPPRESSED USING A SEQUENTIAL PROGRAM

BROADLEAF WEEDS	RECOMMENDED HEIGHT (inches)
Bindweed	
field (seedling)	2-4
hedge (seedling)	2-4
Mallow, Venice*	1-4
Morningglory,	
entireleaf*	2-4
ivyleaf*	2-4
pitted	2-4
smallflower*	2-4
tall*	2-4
Ragweed, common*	2-5
Sida, prickly	2-4
Sowthistle, annual	2-5
Thistle, Canada	2-5

* For control see the 0.91 ounce rate and HERBICIDE COMBINATION section.

GRASS WEEDS CONTROLLED USING A SEQUENTIAL PROGRAM

GRASS WEEDS	RECOMMENDED HEIGHT (inches)
Barley, wild	2-4
Barnyardgrass	2-5
Crabgrass,	
large	2-4
smooth	1-4
Crowfoot grass	2-5
Cupgrass, woolly	2-4
Foxtail,	
giant	2-6
green	2-6
yellow	2-6
Goosegrass	2-5
Johnsongrass, seedling	4-8
Millet, wild proso	2-4
Oats, wild	2-4
Panicum,	
fall	2-6
Texas	2-6
Sandbur, field*	2-5
Shattercane	2-8
Signalgrass, broadleaf	2-5
Volunteer corn**	2-8
Volunteer wheat	2-4
Witchgrass	2-5

* For control a dinitroaniline (DNA) herbicide such as **PROWL 3.3 EC** herbicide must be soil applied at a full labeled rate.

** Except imidazolinone tolerant corn.

GRASSES AND SEDGES SUPPRESSED USING A SEQUENTIAL PROGRAM

WEEDS	RECOMMENDED HEIGHT (inches)
GRASSES	
Itchgrass	2-5
Johnsongrass, rhizome	6-12
Quackgrass	4-8
Red rice	2-5
SEDGES	
Nutsedge,	
purple	1-3
yellow	1-3

BROADLEAF WEEDS CONTROLLED USING RAPTOR DG HERBICIDE POSTEMERGENCE AT A BROADCAST RATE OF 0.91 OUNCES PER ACRE (1 packet per 2 acres)

BROADLEAF WEEDS	RECOMMENDED HEIGHT (inches)
Artichoke, Jerusalem	3-8
Chickweed, common	2-5
Cocklebur, common	2-8
Jimsonweed	2-6
Kochia	1-4
Lambsquarters, common	2-5
Mallow, Venice	1-4
Morningglory,	
entireleaf	2-4
ivyleaf	2-4
smallflower	2-4
tall	2-4
Mustard spp.	2-8
Nightshade,	
black	2-5
Eastern black	2-5
hairy	2-5
Pigweed,	
Palmer amaranth*	2-4
prostrate	2-5
redroot	2-8
smooth	2-8
spiny	2-5
Puncturevine	1-3
Purslane, common	1-3
Radish, wild	2-4
Ragweed,	
giant	2-5
common*	2-5
Smartweed,	
ladysthumb	2-5
Pennsylvania	2-5
Sunflower	2-8
Velvetleaf	2-8

* Control of light to moderate populations only. For control of heavier populations see the HERBICIDE COMBINATION section.

BROAD LEAF WEEDS SUPPRESSED USING RAPTOR DG HERBICIDE POSTEMERGENCE AT A BROADCAST RATE OF 0.91 OUNCES PER ACRE (1 packet per 2 acres)

BROADLEAF WEEDS	RECOMMENDED HEIGHT (inches)
Morningglory, pitted	2-4
Bindweed	
field (seedling)	2-4
hedge (seedling)	2-4
Sida, prickly	2-4
Sowthistle, annual	2-4
Thistle, Canada	2-5

GRASS WEEDS CONTROLLED USING RAPTOR DG HERBICIDE POSTEMERGENCE AT A BROADCAST RATE OF 0.91 OUNCES PER ACRE (1 packet per 2 acres)

GRASS WEEDS	RECOMMENDED HEIGHT (inches)
Barley, wild	2-4
Barnyardgrass*	2-5
Foxtail,	
giant	2-6
green	2-6
yellow	2-6
Johnsongrass, seedling	4-8
Millet, wild proso*	2-4
Oats, wild	2-4
Panicum, fall	2-6
Shattercane	2-8
Signalgrass, broadleaf*	2-5
Volunteer corn**	2-8
Volunteer wheat	2-4

* Control of light to moderate populations only. For control of heavier populations use a SEQUENTIAL APPLICATION with a soil applied grass herbicide as described above.

** Except imidazolinone tolerant corn.

GRASS WEEDS AND SEDGES SUPPRESSED USING RAPTOR DG POSTEMERGENCE AT A BROADCAST RATE OF 0.91 OUNCES PER ACRE (1 packet per 2 acres)

WEEDS	RECOMMENDED HEIGHT (inches)
GRASSES	
Crabgrass,	
large	2-4
smooth	2-4
Cupgrass, woolly	2-4
Goosegrass	2-4
Johnsongrass, rhizome	6-12
Quackgrass	4-8
Stinkgrass	2-4
SEDGES	
Nutsedge,	
purple	1-3
yellow	1-3

HERBICIDE COMBINATIONS

GRASS WEEDS

Use a soil applied grass herbicide (such as **PROWL 3.3 EC**) if heavy infestations of some grass weeds exist or if **Raptor® DG herbicide** does not control the species present. Refer to the **PROWL 3.3 EC** (or other grass herbicide) label for specific use recommendations, rates and precautions.

If a selective postemergence grass herbicide such as **PRESTIGE**[7], **Poast Plus**[7], **Fusilade**[8] **2000**, **Fusilade**[8] **DX**, **Fusion**[8], **Assure**[1], **Select**[9] or **Option**[9] is mixed with **RAPTOR DG** to control species that are not controlled with **RAPTOR DG** alone, **SUN-IT II** (1.5 - 2 pints per acre) or a crop oil concentrate (2 pints per acre) AND liquid fertilizer (1-2 quarts per acre) should be added to the tank-mixture. In some cases the activity of the grass herbicide may be reduced when mixed with **RAPTOR DG**. The reduction in activity may be overcome by delaying the application of the postemergence grass herbicide 7 days following the application of **RAPTOR DG**. If the grass herbicide is applied first, wait 3 days before applying **RAPTOR DG**. Refer to the respective grass herbicide label for recommended application rate, weed size and restrictions.

BROADLEAF WEEDS

Tank-mixing **RAPTOR DG** and broadleaf herbicides can reduce grass control, so a sequential program including a soil applied grass herbicide such as **PROWL 3.3 EC** is recommended for optimal control.

Enhanced Control of common ragweed, Palmer amaranth, and waterhemp.

Use a soil applied application of **PROWL 3.3 EC** herbicide followed by a postemergence application of **RAPTOR DG** at a broadcast rate of 0.73 to 0.91 ounces per acre plus a diphenylether such as **STATUS**[7] (acifluorfen) for enhanced control of common ragweed, Palmer amaranth and waterhemps. Refer to the **PROWL 3.3 EC** and **STATUS** labels for specific use recommendations, rates and precautions.

When tank-mixing **RAPTOR DG** and **STATUS**, apply **RAPTOR DG** at a broadcast rate of 0.91 ounces per acre or 0.73 ounces per acre when preceded by a full rate of a registered soil applied grass herbicide. Apply **STATUS** at the following rates depending on weed height:

STATUS Rate (ounces per acre):*

Weed	**8-10 oz.**	**12-14 oz.**	**16-20 oz.**
Ragweed, common	2-4"	4-6"	6-8"
Palmer amaranth	2-4"	4-6"	6-8"
Waterhemp spp.	2-4"	4-6"	6-8"

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

When applying **STATUS** following a **RAPTOR DG** application, apply **STATUS** at the following rates:

STATUS Rate (ounces per acre):*

Weed	**10-12 oz.**	**14-16 oz.**	**18-24 oz.**
Ragweed, common	2-4"	4-6"	6-8"
Palmer amaranth	2-4"	4-6"	6-8"
Waterhemp spp.	2-4"	4-6"	6-8"

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

ROTATIONAL CROPS

The following rotational crops may be planted after applying up to 0.91 ounces per acre of **Raptor® DG herbicide** in soybeans:

1. Anytime

Soybeans

2. Three months after a RAPTOR DG application:

Wheat

3. Four months after a RAPTOR DG application:

Barley

Rye

4. Nine months after a RAPTOR DG application:

Alfalfa	Edible Beans	Pumpkin
Broccoli	Grain Sorghum	Rice
Cabbage	Oat	Squash
Cantaloupe	Onion	Sunflower
Carrot	Pea	Tobacco
Corn (field, pop, seed, sweet)	Peanut	Tomato
Cotton	Pepper	Turnip
Cucumber	Potato	Watermelon

5. Eighteen months after a RAPTOR DG application:

Sugar beet and table beet if the soil pH is uniformly 6.2* or greater

All other crops including canola

6. Twenty-six months after a RAPTOR DG application:

Sugar beet and table beet if the soil pH is less than 6.2*.

* Sugar beet yields can be reduced when grown in soil conditions with a pH less than 6.5. If the soil is limed to adjust the soil pH, apply the lime at least 18 months prior to planting sugar beet or other rotational crops under the 18 month rotational interval.

Use of **RAPTOR DG** herbicide in accordance with label directions is expected to result in normal growth of rotational crops in most situations; however, various environmental and agronomic factors, such as arid conditions, make it impossible to eliminate all risks associated with the use of this product and, therefore, rotational crop injury is always possible.

PRECAUTIONS

DO NOT make more than one application per growing season.

Only rotational crops harvested at maturity may be used for feed or food.

There should be an interval of at least 85 days between an application of **Raptor® DG herbicide** and soybean harvest.

RAPTOR DG applications must be made before soybean bloom.

DO NOT graze or feed treated soybean forage, hay or straw to livestock.

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.

Except where stated on a Supplemental Label or in this label, DO NOT apply products containing chlorimuron ethyl (Classic, **Canopy**[1], **Synchrony**[1], **Gemini**[1], **Lorox Plus**[1], **Preview**[1], etc.), flumetsulam (**Broadstrike** + **Dual**[2], **Broadstrike** + **TREFLAN**[4]), imazaquin (**SCEPTER®**, **SQUADRON®**, **TRI-SCEPT®**, **SCEPTER® O.T.®**, **SCEPTER® 70DG**, **STEEL™** or **DETAIL®**), imazethapyr (**PURSUIT®**, **PURSUIT® DG**, **PURSUIT® PLUS**, **PASSPORT®**), or **RAPTOR herbicide** the same year as **RAPTOR DG herbicide** or injury to rotational crops may occur.

If arid conditions occur during the year of application rotational crop injury may occur.

In the event of a crop loss due to weather, soybeans can be replanted.

[1] **Accent**, **Basis**, **Classic**, **Concert**, **Pinnacle**, **Staple Synchrony**, **Assure**, **Lorox Plus**, **Canopy**, **Gemini**, and **Preview** are trademarks of E.I. duPont de Nemours & Co., Inc.

[2] **Dual** and **Exceed** are trademarks of Ciba Geigy Corporation.

[3] **Permit** is a trademark of Monsanto Agricultural Company.

[4] **Broadstrike** and **TREFLAN** are trademarks of DowElanco.

[5] **SUN-IT II** is a trademark of Agsco, Inc.

[6] **Spra-Coupe** is a trademark of Melroe Agricultural Products.

[7] **Poast Plus**, **PRESTIGE**, and **STATUS** are trademarks of BASF Corporation.

[8] **Fusilade 2000**, **Fusilade DX**, and **Fusion** are trademarks of Zeneca, Inc.

[9] **Select** is a trademark of Valent Chemical Co.

[10] **Option** is a trademark of AgrEvo USA Company.

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For additional information regarding the use of **RAPTOR DG** herbicide, call telephone no. 1-800-832-HELP (4357).

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