

241-379

2/26/2009

1 of 18



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

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Jeffrey H. Birk, Ph.D.
Product Registration
BASF Corporation, Agricultural Products
PO Box 13528
Research Triangle Park, NC 27709-3528

FEB 26 2009

SUBJECT: Application for Pesticide Notification (PRN 98-10)
Request Directions for Use Change
EPA Reg. No. 241-379
Application Dated January 29, 2009

Dear Registrant:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated 01/29/09 for the above product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action(s) 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 call me directly at 703-305-6249 or Owen F. Beeder of my staff at 703-308-8899.

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

2018



United States
Environmental Protection Agency
Washington, DC 20460

<input type="checkbox"/>	Registration
<input type="checkbox"/>	Amendment
<input checked="" type="checkbox"/>	Other

OPP Identifier Number

Application for Pesticide - Section I

1. Company/Product Number 241-379	2. EPA Product Manager James Tompkins	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Raptor herbicide	PM# 25	
5. Name and Address of Applicant (Include ZIP Code) BASF 26 Davis Drive Research Triangle Park, NC 27709 <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: NOTIFICATION EPA Reg. No. _____ Product Name _____ FEB 26 2009	

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input checked="" type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

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

Notification of final print labeling for Raptor herbicide (241-379). This notification is consistent with the provisions of PR Notice 95-2 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 violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. This notification is not subject to a fee under PRIA. Contact Jeff Birk at 919-547-2622 (phone), 919-547-2850 (fax) or by Email at jeffrey.birk@basf.com

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Metal <input 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 <input type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container	5. Location of Label Directions <input type="checkbox"/>		
6. Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled			<input type="checkbox"/> Other _____		

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Jeffrey H. Birk	Title Regulatory Manager	Telephone No. (Include Area Code) 919-547-2622
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.		6. Date Application Received (Stamped)
2. Signature 	3. Title Regulatory Manager	
4. Typed Name Jeffrey H. Birk	5. Date January 29, 2009	

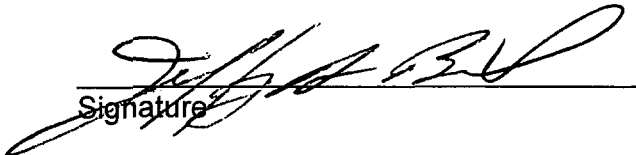
Certification with Respect to Label Integrity

version: 9/11/02

I certify that the information (including, but not limited to, text, tables, and graphics) contained in the electronic file identified below by file name and submitted with this certification is the same information as that on the paper copies of these documents included with this submission.

PROPOSED LABEL		
EPA Registration #	Date Submitted to EPA	Electronic file name
241-379	1-29-09	000241-00379.20090129.NVA 2008-04-133-0360

I certify that the statements that I have made on this form are true, accurate, and complete. I acknowledge that any knowingly false or misleading statements may be punishable by fine or imprisonment or both under applicable law.


Signature

01/29/2009

Date

Jeffrey H. Birk

Name (typed)

Regulatory Manager

Title



The Chemical Company

January 29, 2009

U.S. Environmental Protection Agency
Office of Pesticide Programs (7505P)
Document Processing Desk 7504P (NOTIF)
Room S-4900
One Potomac Yard
2777 S. Crystal Drive
Arlington, VA 22202
Attention: Mr. James Tompkins, (PM 25)

RE: **Notification:** Raptor® herbicide (241-379)
Raptor herbicide on chicory, crimson, red and white clover grown for seed, lima bean (succulent) and snap bean supplemental labeling

Dear Mr. Tompkins:

BASF is submitting a **Notification** for the printing of a supplemental label containing the recently approved revised use directions for Raptor herbicide on chicory, crimson, red and white clover grown for seed, lima bean (succulent) and snap bean. This supplemental labeling is taken directly from the use directions contained within the full label, approved on November 13, 2008. The supplemental label will provide growers with access to the new use directions until the full label can be produced on the product container. For this reason an expiration date of December 31, 2010 has been included on the supplemental label.

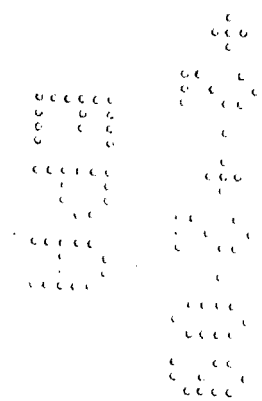
This notification includes the following:

- EPA Application form 8570-1
- Electronic copy of the supplemental labeling
- Certification with Respect to Label Integrity
- Raptor supplemental label for use on chicory, crimson, red and white clover grown for seed, lima bean (succulent) and snap bean.
- Current approved Raptor herbicide label

Thank you for your attention to this matter. If you should have any questions, please feel free to call me at (919) 547-2622.

Regards,

Jeffrey H. Birk, Ph.D.
Regulatory Manager
Phone 919-547-2622
Fax: 919-547-2850
Email: jeffrey.birk@basf.com





The Chemical Company

Raptor[®]

herbicide



For use on chicory; crimson, red, and white clover grown for seed; lima beans (succulent); and snap beans

This supplemental label expires December 31, 2010.

NOTIFICATION

FEB 26 2009

EPA Reg. No. 241-379

Active Ingredient:

ammonium salt of imazamox: 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-(methoxymethyl)-3-pyridinecarboxylic acid* 12.1%

Other Ingredients: 87.9%

Total: 100.0%

* Equivalent to 11.4% 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-5-(methoxymethyl)-3-pyridinecarboxylic acid

1 gallon contains 1.0 pound of active ingredient as the free acid.

OBSERVE AND FOLLOW ALL APPLICABLE DIRECTIONS, RESTRICTIONS, FIRST AID, WORKER PROTECTION STANDARD REQUIREMENTS, PRECAUTIONARY STATEMENTS AND MIXING AND APPLICATION INSTRUCTIONS ON THE Raptor[®] herbicide CONTAINER LABEL BEFORE USING.

Directions For Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Refer to the **Raptor** container label, EPA Reg. No. 241-379, for complete **Directions For Use** and all applicable restrictions and precautions. User must have the full **Raptor** container label and this supplemental label in possession at the time of pesticide application.

Mixing Instructions

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

ADJUVANTS

When an adjuvant (or a specific adjuvant product, such as a drift control agent) is to be used with this product, the use of a Chemical Producers and Distributors Association (CPDA) certified adjuvant is recommended.

Crop Oil Concentrate (COC), Methylated Seed Oil (MSO), or High Surfactant Oil Concentrate (HSOC).

A petroleum or vegetable seed-based crop oil concentrate may be used. A methylated seed oil is recommended when weeds are under moisture or temperature stress. Use methylated seed oils or crop oil

concentrate at a rate of 1 to 2 gallons/100 gallons of spray solution.

Use HSOC at a rate of 0.5 gallon/100 gallons of spray solution.

OR

Surfactants. Use a nonionic surfactant containing at least 80% active ingredient. Apply the surfactant at the rate of 1 quart/100 gallons of spray solution (0.25% volume/volume [v/v]). An organosilicone surfactant may be used in place of a nonionic surfactant.

AND

Nitrogen Fertilizer. Recommended nitrogen-based fertilizers include liquid fertilizers [such as liquid ammonium sulfate (AMS), 28% N, 32% N or 10-34-0] at the rate of 2.5 gallons/100 gallons of spray solution. Instead of a liquid fertilizer, spray-grade ammonium sulfate may be used at the rate of 12 to 15 pounds/100 gallons of spray solution.

When targeting feral rye or weeds under moisture or temperature stress, using higher nitrogen fertilizer rates [Urea Ammonium Nitrate (UAN) at 5% v/v or 20 lbs AMS/100 gallons] may improve weed control. Additional crop response may be observed when higher fertilizer rates are used.

Fill the spray tank 1/2 to 3/4 full with clean water. Use a calibrated measuring device to measure the required amount of **Raptor® herbicide**. Add **Raptor** to the spray tank while agitating. Add adjuvants and fill the remainder of the tank with water.

NOTE: Nitrogen fertilizer is not required when applied in use areas south of Interstate Highway 40, except in the states of Arizona, California, New Mexico, Oklahoma, and Texas.

NOTE: DO NOT apply **Raptor** in liquid fertilizer as the carrier.

LIQUID FERTILIZER AS A CARRIER

DO NOT apply **Raptor** with liquid fertilizer as a carrier unless specifically allowed for a given crop. Refer to specific crop **DIRECTIONS FOR USE** sections for crop-specific adjuvant recommendations and/or restrictions.

See application information within **LIMA BEANS (Succulent)** and **SNAP BEANS DIRECTIONS FOR USE** for additional mixing instructions.

CHICORY

DIRECTIONS FOR USE

Apply **Raptor** as an early postemergence treatment when weeds are actively growing and before they exceed a height of 3 inches, unless otherwise indicated. Apply **Raptor** as an early postemergence treatment when chicory has at least 2, and no more than 4, fully expanded true leaves present. **DO NOT** apply to chicory subjected to stress conditions, such as hail damage, flooding, drought, injury from other herbicides, or widely fluctuating temperatures, as crop injury may result.

THIS PRODUCT WHEN USED IN CHICORY MAY LEAD TO CROP INJURY, LOSS, OR DAMAGE. BASF RECOMMENDS THAT THE USER AND/OR GROWER TEST THIS PRODUCT TO DETERMINE ITS SUITABILITY FOR SUCH INTENDED USE.

Use Rate

Apply **Raptor** postemergence only at a rate of 0.031 lb imazamox ae/acre (4 fl ozs **Raptor**/acre). At this rate, 1 gallon of **Raptor** will treat 32 acres of chicory. It is recommended that a registered soil-applied grass herbicide be used prior to use of **Raptor**.

APPLICATIONS OF RAPTOR REQUIRE THE ADDITION OF A SURFACTANT. Refer to the **Mixing Instructions** section for specific surfactant types and rates.

ADDITION OF NITROGEN FERTILIZER, SUCH AS 28-0-0 OR 32-0-0 LIQUID FERTILIZER, MAY IMPROVE WEED CONTROL BUT ALSO INCREASES THE LIKELIHOOD OF INJURY TO CHICORY. Add liquid fertilizer at a rate of 2.5% v/v.

Crop-specific Restrictions and Limitations

DO NOT apply more than 0.031 lb imazamox ae/acre (4 fl ozs/acre **Raptor**) during the growing season. **For use in Colorado, Idaho, Montana, Nebraska, Oregon, and Wyoming.**

WEEDS CONTROLLED

Broadleaf Weeds Controlled by Raptor in Chicory

	Raptor at 4 fl ozs/A with a surfactant
	Maximum Weed Size (inches)
Beet, wild	3
Jimsonweed	3
Flixweed	3
Lambsquarters	3
Mustard,	
Black	3
Tumble	3
Wild	3
Nightshade,	
Black	3
Eastern black	3
Hairy	3
Pennycress, field	3
Pigweed,	
Redroot	3
Smooth	3
Spiny	3
Radish, wild	3
Shepherdspurse	3
Tansymustard, green	3

Grass Weeds Controlled by Raptor® herbicide in Chicory	
Raptor at 4 fl ozs/A with a surfactant	
	Maximum Weed Size (inches)
Brome,	
Cheat	3
Downy	3
Japanese	3
Cereals, volunteer	
Barley	3
Oat	3
Wheat (non-CLEARFIELD®)	3
Dandel, Persian	3
Foxtail,	
Giant	3
Green	3
Yellow	3
Jointed goatgrass	3
Oats, wild	3
Shattercane	3

Grass Weeds and Sedges Suppressed by Raptor in Chicory	
Raptor at 4 fl ozs/A with a surfactant	
	Maximum Weed Size (inches)
GRASSES	
Crabgrass,	
Large	3
Smooth	3
SEDGES	
Nutsedge,	
Purple	3
Yellow	3
Quackgrass	3

CRIMSON, RED, AND WHITE CLOVER GROWN FOR SEED

DIRECTIONS FOR USE

For use only in Oregon and Washington

Application Timing

Apply **Raptor** as an early postemergence treatment in a tank mix, as described below, when the crimson, red, and white clover have a minimum of 2 trifoliolate leaves and when the majority of the weeds are 1 to 3 inches.

Raptor applications must be made prior to clover bloom.

Use Rate

Apply **Raptor** at a broadcast rate of 0.04 lb imazamox ae/acre (5 fl ozs **Raptor**/acre) postemergence only.

Applications of Raptor in clover grown for seed require the addition of an adjuvant, nitrogen fertilizer and Basagran® herbicide.

1. ADJUVANTS

- **Nonionic surfactant.** Use a nonionic surfactant containing at least 80% active ingredient. Apply the surfactant at the rate of 0.25% v/v (1 quart/100 gallons of spray solution)

OR

- **Crop Oil Concentrate.** Use a crop oil concentrate at 1 pint/acre (0.5 gallon/100 gallons of spray solution).

OR

- **High Surfactant Oil Concentrate (HSOC).** Use an HSOC at 0.5% v/v (0.5 gallon/100 gallons of spray solution).

2. NITROGEN FERTILIZER

Recommended nitrogen-based fertilizers include liquid fertilizers (such as 28% N, 32% N or 10-34-0) at the rate of 2.5 gallons/100 gallons of spray solution. Instead of a liquid fertilizer, spray-grade ammonium sulfate may be used at the rate of 12 to 15 pounds/100 gallons of spray solution.

3. Basagran® herbicide

Add **Basagran** at 8 to 16 fl ozs/acre to minimize crop response. **Basagran** applications at rates higher than 16 fl ozs/acre may reduce grass control. **Basagran** may only be applied to clover grown for seed.

Raptor plus **Basagran** tank mix should be applied a minimum of 4 hours before rainfall or overhead irrigation.

Crop-specific Restrictions and Limitations

DO NOT make more than 1 **Raptor** application (0.04 lb ae/acre imazamox) per growing season.

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

DO NOT apply to clover subjected to stress conditions, such as hail damage, flooding, drought, injury from other herbicides, or widely fluctuating temperatures, as crop injury may result.

DO NOT apply to weeds under stress, such as lack of moisture, previous herbicide injury, mechanical injury or cold temperatures, as unsatisfactory control could result.

DO NOT apply more than a total of 4 pints of **Basagran**/acre per calendar year or 2.0 pounds of bentazon active ingredient (ai) from all sources per acre per calendar year.

WEEDS CONTROLLED

Raptor® herbicide will control or suppress listed weeds when applied postemergence to 1-inch to 3-inch weeds (unless otherwise indicated) at the specified rates listed as follows.

Broadleaf Weeds Controlled by Raptor in Crimson, Red, and White Clover Grown for Seed	
	Raptor at 5 fl ozs/A with surfactant or a crop oil, nitrogen-based fertilizer and Basagran® herbicide
	Maximum Weed Size (inches)
Bedstraw	3
Beet, wild	3
Buttercup	3
Chickweed, common	3
Cocklebur, common	3
Flixweed	3
Jimsonweed	3
Mustard,	
Black	3
Tumble	3
Wild	3
Nightshade,	
Black	3
Eastern black	3
Hairy	3
Pennycress, field	3
Pigweed,	
Redroot	3
Smooth	3
Spiny	3
Puncturevine	3
Radish, wild	3
Shepherdspurse	3
Tansymustard, green	3
Velvetleaf	3

Broadleaf Weeds Suppressed by Raptor in Crimson, Red, and White Clover Grown for Seed

Raptor at 5 fl ozs/A with surfactant or crop oil, nitrogen-based fertilizer and Basagran	
	Maximum Weed Size (inches)
Buckwheat, wild	3
Chickweed, common	3
Knotweed, prostrate	3
Kochia ¹	3
Lambsquarters, common	3
Lettuce, miner's	3
Morningglory,	
Entireleaf	3
Ivyleaf	3
Smallflower	3
Tall	3
Purslane, common	
Rocket,	
London	3
Yellow	3
Smartweed,	
Ladysthumb	3
Pennsylvania	3
Spurge, prostrate	3

¹ **Raptor** controls non-ALS-resistant kochia only.

**Grass Weeds Controlled by Raptor® herbicide in
Crimson, Red, and White Clover Grown for Seed**

Raptor at 5 fl ozs/A with
surfactant or crop oil,
nitrogen-based fertilizer
and Basagran® herbicide

**Maximum Weed Size
(inches)**

Blackgrass	3
Brome,	
Cheat	3
Downy	3
Japanese	3
Canarygrass, littleseed	3
Cereals, volunteer	
Barley	3
Oat	3
Wheat (non-CLEARFIELD®)	3
Darnel, Persian	3
Foxtail,	
Giant	3
Green	3
Yellow	3
Jointed goatgrass	3
Oats, wild	3
Ryegrass, Italian	3
Shattercane	3
Volunteer corn ¹	2 to 8

¹ Except imidazolinone-tolerant corn.

**Grass Weeds and Sedges Suppressed by
Raptor Applications in Crimson, Red, and
White Clover for Seed**

Raptor at 5 fl ozs/A with
surfactant or crop oil,
nitrogen-based fertilizer
and Basagran

**Maximum Weed Size
(inches)**

GRASSES	
Barnyardgrass	3
Johnsongrass, rhizome	3
Crabgrass,	
Large	3
Smooth	3
SEDGES	
Nutsedge,	
Purple	3
Yellow	3
Quackgrass	3

LIMA BEANS (Succulent)

DIRECTIONS FOR USE

For postemergence use in lima beans (succulent) in Arkansas, Delaware, Illinois, Indiana, Iowa, Kentucky, Maryland, Minnesota, Missouri (boothel), Tennessee, Virginia, and Wisconsin only

Use Raptor ONLY if proper agronomic practices have been utilized, including good soil fertility, proper crop rotation, disease and insect management and tillage practices that eliminate compaction and hardpans.

Occasionally, internode shortening and/or temporary yellowing of crop plants may occur following **Raptor** applications in lima beans. 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 days.

THIS PRODUCT WHEN USED ON LIMA BEANS (SUCCULENT) MAY LEAD TO CROP INJURY, LOSS, OR DAMAGE. BASF RECOMMENDS THAT THE USER AND/OR GROWER TEST THIS PRODUCT TO DETERMINE ITS SUITABILITY FOR SUCH INTENDED USE.

Use Rate

Early Postemergence Applications. Apply **Raptor** at the broadcast rate of 0.031 lb imazamox ae/acre (4 fl oz **Raptor**/acre) tank mixed with **Basagran** at 6 fl ozs to 16 fl ozs/acre. When used in lima beans, **Raptor** must be applied with **Basagran** to minimize crop response. **Basagran** applications at rates higher than 16 fl ozs/acre may reduce grass control.

Application timing should be based on weed size and crop growth stage. Apply to crop and weeds that are actively growing. Apply **Raptor + Basagran** postemergence to lima beans in the first to second trifoliate leaf stage and to weeds that are less than 3 inches tall. Applications before the first trifoliate leaf stage may result in increased crop response. **DO NOT** apply **Raptor + Basagran** to lima beans during flowering.

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 the rate of 1 quart/100 gallons of spray solution.

Raptor tank mixes with any pesticide other than **Basagran** are not recommended. Certain insecticide and herbicide tank mixes with **Raptor** in lima beans have shown unacceptable crop response.

Raptor may be applied a minimum of 1 hour before rainfall or overhead irrigation.

Crop-specific Restrictions and Limitations

Only 1 application of **Raptor® herbicide** may be made during the season.

A maximum of 0.031 lb imazamox ae/acre (4 fl ozs **Raptor**/acre) per season may be applied to lima beans (succulent) in Arkansas, Delaware, Illinois, Indiana, Iowa, Kentucky, Maryland, Minnesota, Missouri (bootheel), Tennessee, Virginia and Wisconsin only.

Broadleaf Weeds Controlled by Raptor in Lima Beans (Succulent)

Application Rate	
Raptor at 4 fl ozs/A + Basagran® herbicide at 6 to 16 fl ozs/A	
Maximum Weed Size (inches)	
Bedstraw	3
Beet, wild	3
Buttercup	3
Chickweed, common	3
Jimsonweed	3
Mustard,	
Black	3
Tumble	3
Wild	3
Nightshade,	
Black	3
Eastern black	3
Hairy	3
Pennycress, field	3
Pigweed,	
Redroot	3
Smooth	3
Spiny	3
Puncturevine	3
Radish, wild	3
Shepherdspurse	3
Tansymustard, green	3

Broadleaf Weeds Suppressed by Raptor in Lima Beans (Succulent)

Application Rate	
Raptor at 4 fl ozs/A + Basagran at 6 to 16 fl ozs/A	
Maximum Weed Size (inches)	
Buckwheat, wild	3
Chickweed, common	3
Cocklebur, common	3
Knotweed, prostrate	3
Kochia ¹	3
Lambsquarters, common	3
Lettuce, miner's	3
Morningglory,	
Entireleaf	3
Ivyleaf	3
Smallflower	3
Tall	3
Purslane, common	3
Rocket, London	3
Smartweed,	
Ladysthumb	3
Pennsylvania	3
Spurge, prostrate	3

¹ **Raptor** controls non-ALS-resistant kochia only.

SNAP BEANS

DIRECTIONS FOR USE

Raptor may be applied to snap beans in the states of Delaware, Idaho, Illinois, Indiana, Iowa, Maryland, Michigan, Minnesota, New York, Oregon, Pennsylvania, Virginia, Washington, and Wisconsin only.

Occasionally, internode shortening and/or temporary yellowing of snap beans may occur following Raptor application. These effects can be more pronounced if snap beans are growing under stressful environmental or hot and humid conditions. These effects occur infrequently and are temporary. Normal growth and appearance should resume within days.

Use Raptor ONLY if proper agronomic practices have been utilized, including good soil fertility, proper crop rotation, disease and insect management and tillage practices that eliminate compaction and hardpans. **DO NOT** apply to snap beans that have been injured from applications of soil-applied herbicides.

Apply Raptor postemergence to snap beans with at least 1 fully expanded trifoliolate and before the bloom stage. **For use in Idaho, Oregon and Washington**, apply Raptor to snap beans at first or second trifoliolate leaf stage. Delay application until the majority of the weeds are at the specified growth stage. Application timing should be based on weed size and crop growth stage. Apply Raptor to crop and weeds that are actively growing. **DO NOT apply Raptor to snap beans during flowering.**

THIS PRODUCT WHEN USED ON SNAP BEANS MAY LEAD TO CROP INJURY, LOSS, OR DAMAGE. BASF RECOMMENDS THAT THE USER AND/OR GROWER TEST THIS PRODUCT TO DETERMINE ITS SUITABILITY FOR SUCH INTENDED USE.

Use Rate

Apply Raptor at the broadcast rate of 0.031 lb imazamox ae/acre (4 fl ozs Raptor/acre) tank mixed with Basagran at 6 fl ozs to 16 fl ozs/acre. **When used in snap beans, Raptor must be applied with Basagran to minimize crop response.** Basagran applications at rates higher than 16 fl ozs/acre may reduce grass control.

NOTE: ADDITIONAL MIXING INSTRUCTIONS FOR SNAP BEANS

For use in Delaware, Illinois, Indiana, Iowa, Maryland, Michigan, Minnesota, New York, Pennsylvania, Virginia, and Wisconsin, 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 1 quart/100 gallons of spray solution. **DO NOT** use a COC, MSO or HSOC.

Grass Weeds Controlled by Raptor® herbicide in Lima Beans (Succulent)	
Application Rate	
	Raptor at 4 fl ozs/A + Basagran® herbicide at 6 to 16 fl ozs/A
Maximum Weed Size (inches)	
Barnyardgrass	3
Blackgrass	3
Brome,	
Cheat	3
Downy	3
Japanese	3
Canarygrass, littleseed	3
Cereals, volunteer	
Barley	3
Oat	3
Wheat (non-CLEARFIELD®)	3
Darnel, Persian	3
Foxtail,	
Giant	3
Green	3
Yellow	3
Jointed goatgrass	3
Oats, wild	3
Ryegrass, Italian	3
Shattercane	3
Volunteer corn ¹	2 to 8

¹ Except imidazolinone-tolerant corn.

Grass Weeds and Sedges Suppressed by Raptor in Lima Beans (Succulent)	
Application Rate	
	Raptor at 4 fl ozs/A + Basagran at 6 to 16 fl ozs/A
Maximum Weed Size (inches)	
GRASSES	
Johnsongrass, rhizome	3
Crabgrass,	
Large	3
Smooth	3
SEDGES	
Nutsedge	
Purple	3
Yellow	3
Quackgrass	3

For use in Idaho, Oregon and Washington, a nonionic surfactant and nitrogen fertilizer 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 1 quart/100 gallons of spray solution. Alternatively, a crop oil concentrate (COC), methylated seed oil (MSO) or HSOC can be used. Use COC at a rate of 1 gallon/100 gallons of spray solution. Use MSO at a rate of 1 to 2 gallons/100 gallons of spray solution. Use HSOC at 0.5 gallon/100 gallons of spray solution.

Recommended nitrogen-based fertilizers include liquid fertilizers, such as 28-0-0, 32-0-0, or 10-34-0, at the rate of 2.5 gallons per 100 gallons of spray solution. Instead of a liquid fertilizer, spray-grade ammonium sulfate may be used at the rate of 12 to 15 pounds per 100 gallons of spray solution.

Raptor® herbicide tank mixes with any pesticide other than **Basagran® herbicide** are not recommended. Certain insecticide and herbicide tank mixes with **Raptor** in snap beans have shown unacceptable crop response.

Crop-specific Restrictions and Limitations

Only 1 application of **Raptor** may be made during the season.

A maximum of 0.031 lb imazamox ae/acre (4 fl ozs **Raptor**/acre) per season may be applied to snap beans.

Raptor applications must be made before snap beans bloom.

WEEDS CONTROLLED

Raptor will control or suppress listed weeds when applied postemergence to 1-inch to 3-inch weeds (unless otherwise indicated) at the specified rates listed as follows.

Broadleaf Weeds Controlled by Raptor in Snap Beans	
Application Rate	
	Raptor at 4 fl ozs/A + Basagran at 6 to 16 fl ozs/A
Maximum Weed Size (inches)	
Bedstraw	3
Beet, wild	3
Buttercup	3
Chickweed, common	3
Jimsonweed	3
Mustard,	
Black	3
Tumble	3
Wild	3
Nightshade,	
Black	3
Eastern black	3
Hairy	3
Pennycress, field	3
Pigweed,	
Redroot	3
Smooth	3
Spiny	3
Puncturevine	3
Radish, wild	3
Shepherdspurse	3
Tansymustard, green	3

Broadleaf Weeds Suppressed by Raptor® herbicide in Snap Beans

Application Rate	
Raptor at 4 fl ozs/A + Basagran® herbicide at 6 to 16 fl ozs/A	
Maximum Weed Size (inches)	
Buckwheat, wild	3
Chickweed, common	3
Cocklebur, common	3
Knotweed, prostrate	3
Kochia ¹	3
Lambsquarters, common	3
Lettuce, miner's	3
Morningglory,	
Entireleaf	3
Ivyleaf	3
Smallflower	3
Tall	3
Purslane, common	3
Rocket, London	3
Smartweed,	
Ladysthumb	3
Pennsylvania	3
Spurge, prostrate	3

¹Raptor controls non-ALS-resistant kochia only.

Grass Weeds Controlled by Raptor in Snap Beans

Application Rate	
Raptor at 4 fl ozs/A + Basagran at 6 to 16 fl ozs/A	
Maximum Weed Size (inches)	
Barnyardgrass	3
Blackgrass	3
Brome,	
Cheat	3
Downy	3
Japanese	3
Canarygrass, littleseed	3
Cereals, volunteer	
Barley	3
Oat	3
Wheat (non-CLEARFIELD®)	3
Darnel, Persian	3
Foxtail,	
Giant	3
Green	3
Yellow	3
Jointed goatgrass	3
Oats, wild	3
Ryegrass, Italian	3
Shattercane	3
Volunteer corn ¹	2 to 8

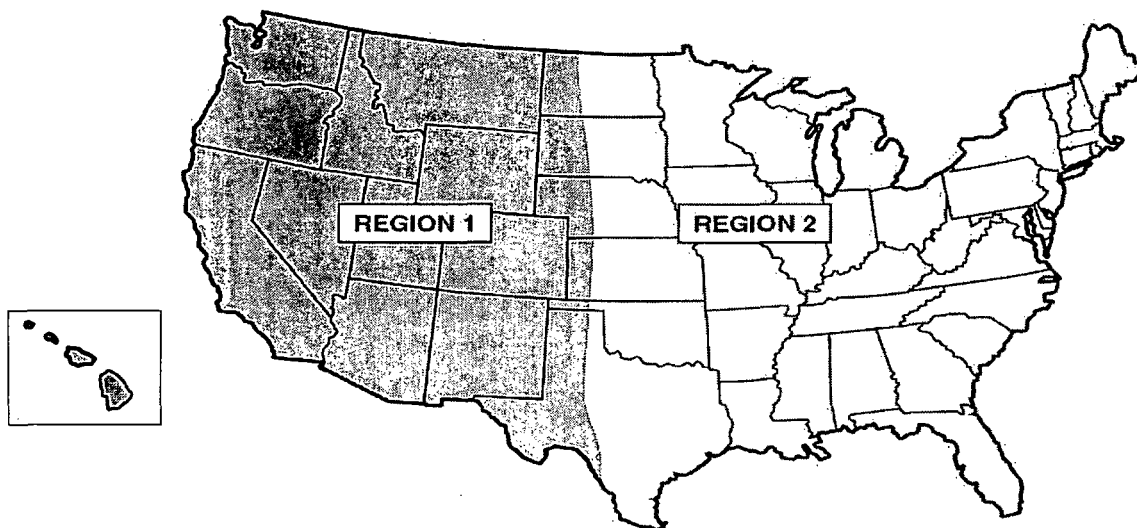
¹ Except imidazolinone-tolerant corn.

Grass Weeds and Sedges Suppressed by Raptor in Snap Beans

Application Rate	
Raptor at 4 fl ozs/A + Basagran at 6 to 16 fl ozs/A	
Maximum Weed Size (inches)	
GRASSES	
Johnsongrass, rhizome	3
Crabgrass,	
Large	3
Smooth	3
SEDGES	
Nutsedge	
Purple	3
Yellow	3
Quackgrass	3

ROTATIONAL CROP RESTRICTIONS

Rotational crops may be planted after applying the specified rate of **Raptor® herbicide** in the regions, as indicated on the map.



Region 1 consists of states and parts of states WEST of U.S. Highway 83 (Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, Wyoming, and western parts of Kansas, Nebraska, North Dakota, Oklahoma, South Dakota, and Texas).

Region 2 consists of states and parts of states to the EAST of U.S. Highway 83 (includes the eastern parts of Kansas, Nebraska, North Dakota, Oklahoma, South Dakota, and Texas, and the states to the east of these states).

Rotational Interval (months) Following an Application of Raptor® herbicide

PLANT-BACK INTERVAL (months)	REGION 1	REGION 2
ANYTIME	CLEARFIELD® canola CLEARFIELD lentil CLEARFIELD sunflower CLEARFIELD wheat Dry beans and dry peas English peas Lima beans (succulent) Snap beans Soybeans	CLEARFIELD canola CLEARFIELD lentil CLEARFIELD rice CLEARFIELD sunflower CLEARFIELD wheat Dry beans and dry peas English peas Lima beans (succulent) Snap beans Soybeans
3 MONTHS	Alfalfa Wheat ^{5,6} (non- CLEARFIELD)	Alfalfa Wheat ⁵ (non- CLEARFIELD)
4 MONTHS	Rye	Rye
8 1/2 MONTHS	Corn (field, pop, seed, sweet, CLEARFIELD and non- CLEARFIELD)	Corn (field, pop, seed, sweet, CLEARFIELD and non- CLEARFIELD)
9 MONTHS	Barley ¹ Cantaloupe Cotton Grain sorghum Lettuce Millets Oat Onion Peanut Pumpkin Rice Squash Sunflower Tobacco Watermelon	Barley ¹ Broccoli Cabbage Cantaloupe Carrot Cotton Cucumber Grain sorghum Lettuce Millets Oat Onion Peanut Pepper Potato ² Pumpkin Rice Squash Sunflower Tobacco Tomato Turnip Watermelon
18 MONTHS	Barley ¹ Broccoli Cabbage Carrot Cucumber Pepper Potato Tomato Turnip All other crops not listed in the ROTATIONAL CROP restrictions	Barley ¹ Canola (non- CLEARFIELD) Condiment mustard All other crops not listed in the ROTATIONAL CROPS restrictions Sugar beet ³ Table beet ³
26 MONTHS	Canola (non- CLEARFIELD) Condiment mustard Sugar beet ⁴ Table beet	Sugar beet ³ Table beet ³

¹ In **Region 1** and **Region 2**, refer to the following table for rotational intervals for planting barley following applications of **Raptor**.

² In **Region 2**, refer to the following table for rotational intervals for planting potato following applications of **Raptor**.

³ In **Region 2**, sugar beets and table beets can be planted 18 months following an application of **Raptor** if the soil pH is uniformly 6.2 or greater. If the soil pH is less than 6.2, the rotational interval is 26 months. Sugar beet yields can be reduced when grown in soil conditions with a pH less than 6.2. 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.

⁴ For sugar beets grown in parts of Nebraska west of Highway 83, and Platte, Goshen and Laramie counties in Wyoming, follow the sugar beet rotational crop restrictions for **Region 2** for sprinkler-irrigated fields only. If fields are dryland, flood or furrow irrigated, follow restrictions for **Region 1**. A minimum of 10 inches of overhead irrigation must be applied each season to qualify for **Region 2** guidelines.

⁵ Planting non-**CLEARFIELD** spring or winter wheat in areas receiving less than 10 inches of precipitation from the time of **Raptor** application up until wheat planting may result in wheat injury. The possibility of injury increases if less than normal precipitation occurs from the time of application to planting and/or within the first 2 months after **Raptor** application.

⁶ In **Region 1**, refer to the following table for rotational intervals for planting non-**CLEARFIELD** wheat following applications of **Raptor**.

When taking soil samples to determine soil pH, utilize a grid sampling technique, sampling to a depth of 3 to 4 inches.

Barley Rotational Interval Based on pH, Moisture and Tillage (Region 1 and Region 2)		Moldboard Plowing	
		NO	YES
pH and Rainfall Requirements	>18" R+I AND pH >6.2	9 months	9 months
	<18" R+I OR pH <6.2	18 months	9 months

Potato Rotational Interval Based on pH and Moisture (Region 2)		
pH and Rainfall Requirements	>18" R+I AND pH >6.2	9 months
	<18" R+I OR pH <6.2	18 months

Non-CLEARFIELD® Wheat Rotational Interval based on pH, Moisture and Tillage (Region 1)		Moldboard Plowing	
		NO	YES
pH and Rainfall Requirements	>10" R+I AND pH >6.2	3 months	3 months
	<10" R+I OR pH <6.2	15 months	3 months

Non-CLEARFIELD Wheat Rotational Interval based on pH, Moisture and Tillage (WA and selected counties in ID* and OR**)		Moldboard Plowing	
		NO	YES
pH and Rainfall Requirements	>16" R+I AND pH >6.2	3 months	3 months
	<16" R+I OR pH <6.2	15 months	15 months

*Selected counties in Idaho: Benewah, Bonner, Boundary, Clearwater, Idaho, Kootenai, Latah, Lewis, Nez Perce and Shoshone.

**Selected counties in Oregon: All but Malheur.

R+I = Rainfall and overhead irrigation from the time of **Raptor® herbicide** application up until time of barley, non-CLEARFIELD wheat, or potato planting. **Does not include furrow or flood irrigation.**

If the rainfall or pH requirements are not fully met, and barley or non-CLEARFIELD wheat is planted prior to the specified rotation interval, injury may be reduced by tillage, such as deep disking (greater than 6 inches deep) after crop harvest but prior to November 1.

The possibility of injury to barley or non-CLEARFIELD wheat planted the next season increases **if less than normal precipitation occurs from the time of application to planting and/or within the first two months after Raptor application.**

FURROW-IRRIGATED AND FLOOD-IRRIGATED CROPS

Following harvest of furrow-irrigated or flood-irrigated crops, the soil should be thoroughly mixed by plowing or deep disking to minimize the potential for herbicide carryover to the following crop.

Use of **Raptor** 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.

GENERAL PRECAUTIONS

In the event of a crop loss due to weather, dry beans, dry peas, **CLEARFIELD**[®] canola, **CLEARFIELD** corn, **CLEARFIELD** lentil, **CLEARFIELD** sunflowers, **CLEARFIELD** wheat, peas (English), lima beans (succulent), snap beans, or soybeans can be replanted. **DO NOT** make an additional application of **Raptor**[®] herbicide.

Application of products containing chlorimuron ethyl (herbicides such as **Ganopy**[®], etc.), metsulfuron-methyl (**Harmony**[®] **Extra**), imazaquin (**Scepter**[®] **70 DG herbicide**) or imazethapyr (**Pursuit**[®] herbicide, **Pursuit**[®] **DG herbicide**, **Pursuit**[®] **Plus EC herbicide**) the same year as **Raptor** may increase the risk of injury to sensitive rotational crops. Consult all pertinent labels for use of these products in combinations.

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

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CONDITIONS OF SALE AND WARRANTY

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks shall be assumed by the Buyer.

BASF warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BUYER'S EXCLUSIVE REMEDY AND BASF'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT.

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, EXEMPLARY, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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**USES WITH OTHER PRODUCTS
(TANK MIXES)**

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

NOTIFICATION

FEB 26 2009

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