

241-379

6-20-2006

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**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

JUN 20 2006

Dr. Jeffrey Birk  
BASF Corporation  
26 Davis Drive  
P.O. Box 13528  
Research Triangle Park, NC 27709-3528

Subject: Raptor/Beyond Herbicide  
EPA Registration No. 241-379  
Amended Raptor Supplemental Labeling for English Pea and Lima Bean  
Submitted April 11, 2006

Dear Mr. Birk:

The amended supplemental labeling referred to above is acceptable and expires on December 31, 2008. Stamped copies of the labels are enclosed for your records.

If you have any questions about this letter, you may call Tobi Colvin-Snyder at 703-305-7801.

Sincerely,

A handwritten signature in black ink, appearing to read "Jim Tompkins", written over a circular stamp.

Jim Tompkins  
Product Manager (25)  
Herbicide Branch  
Registration Division (7505C)

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# Supplemental Labeling

EPA Reg. No. 241-379

Expires December 31, 2008

## For Postemergence Use on English Peas in Delaware, Illinois, Indiana, Iowa, Maryland, Minnesota, New York and Wisconsin Only

OBSERVE ALL PRECAUTIONARY STATEMENTS AND SPRAYING INFORMATION IN THE RAPTOR® HERBICIDE LEAFLET LABEL BEFORE USING. REFER TO THE RAPTOR LEAFLET LABEL FOR FIRST AID AND WORKER PROTECTION STANDARD REQUIREMENTS.

### DIRECTIONS FOR USE

READ THE LABEL AFFIXED TO THE CONTAINER FOR RAPTOR HERBICIDE BEFORE APPLYING. USE OF RAPTOR HERBICIDE ACCORDING TO THIS SUPPLEMENTAL LABELING IS SUBJECT TO THE USE PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL AFFIXED TO THE CONTAINER FOR RAPTOR HERBICIDE.

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This labeling must be in the possession of the user at the time of pesticide application.

When Raptor 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 may be exceeded. Raptor cannot be mixed with any product containing a label prohibiting such mixtures. Do not use Raptor other than in accordance with the instructions set forth on this label. The use of Raptor not consistent with this label may result in injury to crops. Keep containers closed to avoid spills and contamination.

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

### GENERAL PRECAUTIONS

In the event of a crop loss due to weather, edible legumes, CLEARFIELD\* canola, CLEARFIELD\* corn, CLEARFIELD\* sunflowers, CLEARFIELD\* wheat, or soybeans can be replanted. Do not make an additional application of Raptor.

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

Ensure spray drift to non-target species does not occur.

DO NOT apply Raptor in any manner not specifically described in this label.

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

<b>ACCEPTED</b>
JUN 20 2006
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 241-379

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When applied by either land or air, Raptor® herbicide spray drift or other indirect contact may injure sensitive crops including non-imidazolinone tolerant wheat or canola, sugarbeets, and leafy vegetables.

Spray equipment used for Raptor application must be drained and thoroughly cleaned with water before being used to apply other products.

DO NOT make more than one application of Raptor per year.

## DISCLAIMER

BASF MAKES THIS PRODUCT AVAILABLE TO THE USER AND/OR GROWER SOLELY TO THE EXTENT THAT THE BENEFIT AND UTILITY, IN THE SOLE OPINION OF THE USER AND/OR GROWER, OUTWEIGH THE EXTENT OF POTENTIAL INJURY ASSOCIATED WITH THE USE OF THIS PRODUCT. THE DECISION TO USE OR NOT TO USE THIS HERBICIDE MUST BE MADE BY EACH INDIVIDUAL RAPTOR USER AND/OR GROWER ON THE BASIS OF POSSIBLE CROP INJURY FROM RAPTOR, THE SEVERITY OF WEED INFESTATION, THE COST OF ALTERNATIVE WEED CONTROLS, AND OTHER FACTORS. BASF INTENDS THAT BECAUSE OF THE RISK OF FAILURE TO PERFORM OR CROP DAMAGE THAT ALL SUCH USE IS AT THE USER'S AND/OR GROWER'S RISK. BASF DISCLAIMS ANY LIABILITY FOR CLAIMS, CAUSES OF ACTION, FINES, PENALTIES, DAMAGES, INCLUDING CONSEQUENTIAL INCIDENTS AND DAMAGES, LOSSES, LIABILITIES, JUDGEMENTS, AND EXPENSES ARISING OUT OF OR RELATING TO INJURY TO PERSONS, CROPS, OR PROPERTY RESULTING FROM THE USE OF RAPTOR ON ENGLISH PEAS CONTRARY TO THE LABEL INSTRUCTIONS.

## GENERAL INFORMATION

**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.

Reduced crop growth, temporary yellowing, quality, yield and/or delayed maturity may result from a Raptor application to English peas. Since crop maturity may be delayed, timing of harvest may need to be adjusted accordingly. DO NOT apply Raptor if planting is delayed and a chance of frost prior to maturity is likely. Growers should check with the seed company regarding the safety of Raptor to their variety.

## APPLICATION INSTRUCTIONS

Early Postemergence Applications: Apply Raptor at the broadcast rate of 3 ounces per acre.

Application timing should be based on weed size and crop growth stage. Apply Raptor to crop and weeds that are actively growing.

Apply Raptor postemergence to English peas at least 3 inches in height but prior to 5 nodes before flowering. The use of trifluralin prior to a Raptor application may increase the likelihood and severity of crop injury.

A non-ionic surfactant must be added to the spray solution. The non-ionic surfactant must contain at least 80% active ingredient and should be used at a rate of 1 quart per 100 gallons of spray solution.

The addition of a nitrogen based fertilizer such as ammonium sulfate or liquid fertilizers (such as 28-0-0) may improve weed control, but also increases the likelihood of English pea response. When nitrogen based fertilizer is added to the mixture, add Basagran® herbicide as a tank mix partner at the rate of 6 to 16 ounces per acre to minimize crop response. Recommended nitrogen based fertilizers include liquid fertilizers (such as 28% N, 32% N 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 12-15 pounds per 100 gallons of spray solution.

For enhanced grass activity, add a crop oil concentrate at a rate of 1 gallon per 100 gallons per acre instead of a non-ionic surfactant. Always add Basagran at the rates indicated above when crop oil concentrate and/or a nitrogen based fertilizer are used in the spray mixture. Basagran applications at rates higher than 16 ounces per acre may reduce grass control.

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

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WEEDS CONTROLLED BY RAPTOR® HERBICIDE

	Application Rate	
	RAPTOR at 3 oz./A	RAPTOR at 3 oz./A + Basagran at 6 – 16 oz./A
	Maximum Weed Size (inches)	
Mustard,		
Tumble	3	3
Wild	3	3
Black	3	3
Nightshade,		
Black	3	3
Eastern black	3	3
Hairy	3	3
Pennycress, field	3	3
Pigweed,		
Redroot	3	3
Smooth	3	3
Spiny	3	3
Shepherdspurse	3	3

ROTATIONAL CROP GUIDELINES

See main Raptor label for rotational plant-back intervals following applications of Raptor.

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Supersedes: NVA 2004-04-133-0275

BASF Corporation  
Agricultural Products  
26 Davis Drive  
Research Triangle Park, NC 27709



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Supplemental Labeling

EPA Reg. No. 241-379  
Expires December 31, 2008

For Postemergence Use in Lima Beans (succulent) in Delaware, Illinois, Indiana, Iowa, Maryland, Minnesota, Virginia and Wisconsin Only

OBSERVE ALL PRECAUTIONARY STATEMENTS AND SPRAYING INFORMATION IN THE RAPTOR® HERBICIDE LEAFLET LABEL BEFORE USING. REFER TO THE RAPTOR LEAFLET LABEL FOR FIRST AID AND WORKER PROTECTION STANDARD REQUIREMENTS.

DIRECTIONS FOR USE

READ THE LABEL AFFIXED TO THE CONTAINER FOR RAPTOR HERBICIDE BEFORE APPLYING. USE OF RAPTOR HERBICIDE ACCORDING TO THIS SUPPLEMENTAL LABELING IS SUBJECT TO THE USE PRECAUTIONS AND LIMITATIONS IMPOSED BY THE LABEL AFFIXED TO THE CONTAINER FOR RAPTOR HERBICIDE.

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. This labeling must be in the possession of the user at the time of pesticide application.

When Raptor 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 may be exceeded. Raptor cannot be mixed with any product containing a label prohibiting such mixtures. Do not use Raptor other than in accordance with the instructions set forth on this label. Keep containers closed to avoid spills and contamination.

DO NOT apply to lima beans that have been seriously injured from applications of soil-applied herbicides such as Dual® Magnum, Eptam®, or Cobra® herbicides.

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 IN ORDER TO DETERMINE ITS SUITABILITY FOR SUCH INTENDED USE.

GENERAL PRECAUTIONS

DO NOT make more than one application of Raptor per year.

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

Ensure spray drift to non-target species does not occur.

DO NOT apply Raptor in any manner not specifically described in this label.

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

ACCEPTED  
JUN 20 2006  
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 241-379

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When applied by either land or air, Raptor<sup>®</sup> herbicide spray drift or other indirect contact may injure sensitive crops including non-imidazolinone tolerant wheat or canola, sugarbeets, and leafy vegetables.

Spray equipment used for Raptor application must be drained and thoroughly cleaned with water before being used to apply other products.

In the event of a crop loss due to weather, edible legumes, CLEARFIELD\* canola, CLEARFIELD\* corn, CLEARFIELD\* sunflowers, CLEARFIELD\* wheat, or soybeans can be replanted. Do not make an additional application of Raptor.

## DISCLAIMER

BASF MAKES THIS PRODUCT AVAILABLE TO THE USER AND/OR GROWER SOLELY TO THE EXTENT THAT THE BENEFIT AND UTILITY, IN THE SOLE OPINION OF THE USER AND/OR GROWER, OUTWEIGH THE EXTENT OF POTENTIAL INJURY ASSOCIATED WITH THE USE OF THIS PRODUCT. THE DECISION TO USE OR NOT TO USE THIS HERBICIDE MUST BE MADE BY EACH INDIVIDUAL RAPTOR USER AND/OR GROWER ON THE BASIS OF POSSIBLE CROP INJURY FROM RAPTOR, THE SEVERITY OF WEED INFESTATION, THE COST OF ALTERNATIVE WEED CONTROLS, AND OTHER FACTORS. BASF INTENDS THAT BECAUSE OF THE RISK OF FAILURE TO PERFORM OR CROP DAMAGE THAT ALL SUCH USE IS AT THE USER'S AND/OR GROWER'S RISK. BASF DISCLAIMS ANY LIABILITY FOR CLAIMS, CAUSES OF ACTION, FINES, PENALTIES, DAMAGES, INCLUDING CONSEQUENTIAL INCIDENTS AND DAMAGES, LOSSES, LIABILITIES, JUDGEMENTS, AND EXPENSES ARISING OUT OF OR RELATING TO INJURY TO PERSONS, CROPS, OR PROPERTY RESULTING FROM THE USE OF RAPTOR ON LIMA BEANS (SUCCULENT) CONTRARY TO THE LABEL INSTRUCTIONS.

## GENERAL INFORMATION

**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.

## APPLICATION INSTRUCTIONS

**Early Postemergence Applications:** Apply Raptor at the broadcast rate of 4 ounces per acre, tank mixed with Basagran<sup>®</sup> herbicide at 6 to 16 ounces per acre. When used in lima beans, Raptor must be applied with Basagran to minimize crop response. Basagran applications at rates higher than 16 ounces per 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 trifoliolate leaf stage and weeds that are less than 3 inches tall. Applications before the first trifoliolate leaf stage may result in increased crop response. **DO NOT** apply Raptor + Basagran to lima beans during flowering.

A non-ionic surfactant must be added to the spray solution. The non-ionic surfactant must contain at least 80% active ingredient and should be used at a rate of 1 quart per 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 one hour before rainfall or overhead irrigation.

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**BROADLEAF WEEDS CONTROLLED BY RAPTOR® HERBICIDE**

Application Rate

**RAPTOR at 4 oz./A +  
Basagran at 6 – 16 oz./A**

Maximum Weed Size (inches)

Bedstraw	3
Beet, wild	3
Buttercup	3
Chickweed, common	3
Jimsonweed	3
Mustard,	
Tumble	3
Wild	3
Black	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

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BROADLEAF WEEDS SUPPRESSED BY RAPTOR® HERBICIDE

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Application Rate

RAPTOR at 4 oz./A +  
Basagran at 6 – 16 oz./A

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Maximum Weed Size (inches)

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Buckwheat, wild	3
Chickweed, common	3
Cocklebur, common	3
Lambsquarters, common	3
Knotweed, prostrate	3
Kochia <sup>1</sup>	3
Lettuce, miners	3
Morningglory	
Entireleaf	3
Ivyleaf	3
Smallflower	3
Tall	3
Purslane, common	3
Rocket, London	3
Smartweed	
Ladysthumb	3
Pennsylvania	3
Spurge, prostrate	3

<sup>1</sup>Raptor control non-ALS resistant kochia only.



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GRASS WEEDS CONTROLLED BY RAPTOR® HERBICIDE

Application Rate	
RAPTOR at 4 oz./A + Basagran at 6 – 16 oz./A	
Maximum Weed Size (inches)	
Barnyardgrass	3
Blackgrass	3
Brome,	
Downy	3
Cheat	3
Japanese	3
Canarygrass, littleseed	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
Ryegrass, Italian	3
Shattercane	3
Volunteer corn <sup>1</sup>	2-8

<sup>1</sup> Except imidazolinone tolerant corn

GRASS WEEDS SUPPRESSED BY RAPTOR

Application Rate	
RAPTOR at 4 oz./A + Basagran at 6 – 16 oz./A	
Maximum Weed Size (inches)	
Johnsongrass, rhizome	3
Crabgrass,	
Large	3
Smooth	3
Sedges	
Purple	3
Yellow	3
Quackgrass	3

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## ROTATIONAL CROP GUIDELINES

See main Raptor® herbicide label for rotational plant-back intervals following applications of Raptor herbicide.

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Dual Magnum and Eptam are registered trademarks of Syngenta.  
Cobra is a registered trademark of Valent USA Corp.

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 **BASF**

The Chemical Company