241-426

na/a4/2009



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 2 4 2009

SUBJECT: Application for Pesticide Notification (PRN 98-10) Request Directions for Use Change EPA Reg. No.241-426 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,

n

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

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Please read instructions on reverse before compl		Form App			. ( <u>     Approval expires 2-28-9</u> OPP Identifier Number
Environmenta	United States al Protection Agence hington, DC 20460	y ·	Registr Amend ✓ Other		
	Application for Pe	sticide - Sect	ion I		
. Company/Product Number 241-426		. EPA Product Mana ames Tompkins	ger	3. Pro	oposed Classification
. Company/Product (Name) Habitat herbicide		Μ# 25			None Restricted
Name and Address of Applicant <i>(Include ZIP C</i> BASF	, e	o)(i), my product is	s similar or iden	itical in co	FIFRA Section 3(c)(3) mposition and labeling
26 Davis Drive Research Triangle Park, NC 27709		EPA Reg. No	NO	THFICAT	ION
Check if this is a new address	F	Product Name _	FE	B 2420	109
	Sectio	on - II			
Amendment - Explain below. Resubmission in response to Agency lette Notification - Explain below.	er dated	✓       Final printed         Agency lette       "Me Too" A         Other - Explanation       Other - Explanation	pplication.	se to	
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## 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	
241-426	1-29-09	000241-00426.20090129.NVA 2009-04-246-0003	

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.

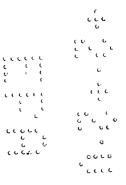
12/2

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:** Habitat<sup>®</sup> herbicide (241-426) Habitat 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 Habitat herbicide in aquatics, pasture/rangeland and terrestrial noncropland sites. This supplemental labeling is taken directly from the full label, approved on December 19, 2008. The supplemental label will provide end users 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
- Habitat herbicide supplemental label for use in aquatic, pasture/range and terrestrial noncropland sites
- Current approved Habitat 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.

430 Regards,

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





The Chemical Company

# Habitat herbicide Supplemental Label

For the control of undesirable vegetation growing within specified aquatic, pasture/rangeland, industrial noncropland sites, and rights-of-way, fence rows, nonirrigation ditchbanks, establishment and maintenance of wildlife openings, for the release of unimproved Bermudagrass and Bahiagrass, for bareground weed control, and for use under certain paved surfaces

This supplemental label expires December 31, 2010.

EPA Reg. No. 241-426

#### Active Ingredient:

Addre ingrediente		
isopropylamine salt of imazapyr: (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-		
oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid)*		28.7%
Other Ingredients:		71.3%
Total:		
* Equivalent to 22.6% 2.14.5-dibudro 4 mathul 4-(1 mathulathul) 5 evo 1 H imidazol 2 vil 2	-pyridipooprhoxylia acid or	

\* Equivalent to 22.6% 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1*H*-imidazol-2-yl]-3-pyridinecarboxylic acid or 2 pounds acid per gallon.

Follow all applicable directions, restrictions, Worker Protection Standard requirements, and precautions on the EPA-approved container label for Habitat<sup>®</sup> herbicide, EPA Reg. No. 241-426.

This supplemental label must be in the possession of the user at the time of application.

#### **Directions For Use**

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

Observe all cautions and limitations on this label and on the labels of products used in combination with **Habitat**. **DO NOT** use **Habitat** other than in accordance with the instructions set forth on this label. Keep containers closed to avoid spills and contamination.

Read and follow the **First Aid**, **Precautionary Statements**, **Environmental Hazards**, and **Storage and Disposal** statements on the **Habitat** container label.

#### General Use Precautions and Restrictions

Applications may be made for the control of undesirable vegetation growing within specified aquatic,

BASF Corporation 26 Davis Drive, Research Triangle Park, NC 27709 pasture/rangeland, industrial noncropland sites, and railroad, utility, and highway rights-of-way, and fence rows. Aquatic sites consist of standing and flowing water, estuarine/marine, wetland and riparian areas. Industrial noncropland sites include utility plant sites, petroleum tank farms, pumping installations, fence rows, storage areas, and nonirrigation ditchbanks. **Habitat** may also be used for the establishment and maintenance of wildlife openings, for the release of unimproved Bermudagrass and Bahiagrass, for bareground weed control, and for use under certain paved surfaces.

NOTIFICATION

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#### Noncropland Sites

• **DO NOT** apply more than 1.5 lbs acid equivalent (ae) imazapyr (equivalent to 96 ozs of **Habitat**) per acre per year.

#### **Pasture/Rangeland Sites**

- For spot treatment only.
- **DO NOT** treat more than 1/10 of the available area to be grazed or cut for hay.
- **DO NOT** apply more than 0.75 lb ae imazapyr (equivalent to 48 ozs of **Habitat**) per acre per year.

#### **Aquatic Sites**

- **DO NOT** apply more than 1.5 lbs ae imazapyr (equivalent to 96 ozs of **Habitat<sup>®</sup> herbicide**) per acre per year.
- Public waters. Application of Habitat to water can only be made by federal or state agencies, such as Water Management District personnel, municipal officials, and the U.S. Army Corps of Engineers, or those applicators who are licensed or certified as aquatic pest control applicators and are authorized by the state or local government. Treatment to other than nonnative invasive species is limited to only those plants that have been determined to be a nuisance by a federal or state government entity.
- **Permitting.** Consult local state fish and game agency and water control authorities before applying this product to public water. Permits may be required to treat such water.
- Aerial application. Aerial application to aquatic sites is restricted to helicopter only.
- Irrigation water. Application to water used for irrigation that results in Habitat residues > 1.0 ppb MUST NOT be used for irrigation purposes for 120 days after application or until Habitat residue levels are determined by laboratory analysis or other appropriate means of analysis to be 1.0 ppb or less. When applications are made within 500 feet of an active irrigation intake, DO NOT irrigate for at least 24 hours following application to allow for dissipation.

#### **General Information**

**Habitat** is an aqueous solution to be mixed with water and a surfactant and applied as a spray solution to control undesirable vegetation growing within specified aquatic, pasture/rangeland, industrial noncropland sites, and railroad, utility, and highway rights-of-way, and fence rows. Aquatic sites consist of standing and flowing water, estuarine/marine, wetland, and riparian areas. Industrial noncropland sites include utility plant sites, petroleum tank farms, pumping installations, fence rows, storage areas, and nonirrigation ditchbanks. **Habitat** may also be used for the establishment and maintenance of wildlife openings, for the release of unimproved Bermudagrass and Bahiagrass, for bareground weed control, and for use under certain paved surfaces.

Application Methods. Habitat may be selectively applied by using low-volume directed application techniques or may be broadcast applied by using ground equipment, watercraft, or aircraft (aerial applications to aquatic sites must be made by helicopter). In addition, Habitat may also be applied using cut stump, cut stem, and frill and girdle treatment techniques within noncropland, pasture/rangeland, and aquatic sites (see Aerial Applications and Ground Applications sections of the leaflet label for additional details).

#### **Noncropland Uses**

Applications may be made for the control of undesirable vegetation growing within industrial noncropland sites. Industrial noncropland sites include utility plant sites, petroleum tank farms, pumping installations, fence rows, storage areas, and nonirrigation ditchbanks. **Habitat** may also be used for the establishment and maintenance of wildlife openings, for the release of unimproved Bermudagrass and Bahiagrass, for bareground weed control, and for use under certain paved surfaces.

#### Tank Mixes and Application Rates for Low-volume Foliar Brush Control\*

Target Vegetation	Habitat Rate	Tank Mix	
Mixed hardwoods without elm, locust, or pine	1.0 to 1.5% by volume	Surfactant	
Mixed hardwoods containing elm, locust, and pine	0.5 to 1.0% by volume	Accord <sup>®</sup> at 2% to 3% by volume plus surfactant	
Mixed hardwoods with locust and pine but no elm	0.5 to 1.0% by volume	<b>Krenite®</b> at 2% to 5% by volume plus surfactant	
Mixed hardwoods with locust and elm but no pine	0.5 to 1.0% by volume	<b>Escort®</b> at 2 ozs/A or 2.3 grams/gal plus surfactant	
*Tank mixes with 2,4-D or products containing 2,4-D have resulted in reduced efficacy of <b>Habitat</b> .			

Mixing Chart			
% Solution	Habitat per gallon of mix (ounces)	Habitat per 4-gallon backpack (ounces)	
0.5%	0.6	2.6	
1.0%	1.3	5.1	
2.0%	2.6	10.2	
3.0%	3.8	15.4	
5.0%	6.4	25.6	

#### Measuring Chart

128 ounces	=	1 gallon
16 ounces	=	1 pint
8 pints	=	1 gallon
4 quarts	=	1 gallon
2 pints	=	1 quart

#### FOR THE SELECTIVE CONTROL OF UNDESIRABLE WEEDS IN UNIMPROVED BERMUDAGRASS AND BAHIAGRASS

Habitat<sup>®</sup> herbicide may be used on unimproved Bermudagrass and Bahiagrass turf such as roadsides, utility rights-of-way, and other noncropland industrial sites. The application of **Habitat** on established common and coastal Bermudagrass and Bahiagrass provides control of labeled broadleaf and grass weeds. Competition from these weeds is eliminated, releasing the Bermudagrass and Bahiagrass. Treatment of Bermudagrass with **Habitat** results in a compacted growth habit and seed-head inhibition.

Uniformly apply with properly calibrated ground equipment using at least 10 gallons of water per acre.

IMPORTANT: Temporary yellowing of grass may occur when treatment is made after growth commences.
DO NOT add surfactant in excess of the recommended rate (1 oz per 25 gallons of spray solution). DO NOT APPLY to grass during its first growing season.
DO NOT APPLY to grass that is under stress from drought, disease, insects, or other causes.

#### DOSAGE RATES AND TIMING

**Bermudagrass.** Apply **Habitat** at 6 to 12 ozs per acre when the Bermudagrass is dormant. Apply **Habitat** at 6 to 8 ozs per acre after the Bermudagrass has reached full green-up. Applications made during green-up will delay green-up. Include a surfactant in the spray solution (see **IMPORTANT** note above).

For additional preemergence control of annual grasses and small-seeded broadleaf weeds, add

**Pendulum<sup>®</sup> AquaCap<sup>™</sup> herbicide** at the rate of 3.1 to 6.3 pints per acre. Consult the **Pendulum AquaCap** label for weeds controlled and for other use directions and precautions.

For control of Johnsongrass in Bermudagrass turf, apply **Habitat** at 8 ozs per acre, plus **Roundup® herbicide** at 12 ozs per acre, plus surfactant. For additional control of broadleaves and vines, **Garlon® 3A** may be added to the above mix at the rate of 1 to 2 pints per acre. Observe all precautions and restrictions on the **Garlon 3A** and **Roundup** labels.

**Bahiagrass.** Apply **Habitat** at 4 to 8 ozs per acre when the Bahiagrass is dormant or after the grass has initiated green-up but has not exceeded 25% green-up. Include a surfactant in the spray solution. (see **ADJUVANTS** section for specific recommendations on surfactants).

### Weeds Controlled in Unimproved Bermudagrass and Bahiagrass:

Bedstraw (*Galium* spp.) Bishopweed (*Ptilimnium capillaceum*) Buttercup (*Ranunculus parviflorus*) Carolina geranium (*Geranium carolinianum*) Fescue (*Festuca* spp.) Foxtail (*Setaria* spp.) Little barley (*Hordeum pusillum*) Seedling Johnsongrass (Sorghum halepense) Wild carrot (Daucus carota) White clover (Trifolium repens) Yellow woodsorrel (Oxalis stricta)

#### **GRASS GROWTH AND SEED-HEAD SUPPRESSION**

**Habitat** may be used to suppress growth and seedhead development of certain turfgrass in unimproved areas. When **Habitat** is applied to desirable turf, it may result in temporary turf damage and/or discoloration. Effects to the desirable turf may vary with environmental conditions. For optimum performance, application should be made prior to culm elongation. Applications may be made before or after mowing. If applied prior to mowing, allow at least 3 days of active growth before mowing. If applied following a mowing, allow sufficient time for the grasses to recover before applying this product or injury may be amplified.

**DO NOT APPLY** to turf under stress (drought, cold, insect damaged, etc.) or severe injury or death may occur.

**Bermudagrass.** Apply **Habitat** at 6 to 8 ozs per acre from early green-up to prior to seed-head initiation. **DO NOT** add a surfactant for this application.

**Cool Season Unimproved Turf.** Apply **Habitat** at 2 ozs per acre plus 0.25% nonionic surfactant. For increased suppression, **Habitat** may be tank mixed with such products as **Campaign®** (24 ozs per acre) or **Embark®** (8 ozs per acre). Tank mixes may increase injury to desired turf. Consult each product label for recommended turf species and other use directions and precautions. Tank mixes with 2,4-D or products containing 2,4-D may decrease the effectiveness of **Habitat**.

#### TOTAL VEGETATION CONTROL WHERE BAREGROUND IS DESIRED

**Habitat** is an effective herbicide for preemergence or postemergence control of many annual and perennial broadleaf and grass weeds where bare ground is desired. **Habitat** is particularly effective on hard-tocontrol perennial grasses. **Habitat** at 1.5 to 6 pints per acre can be used alone or in tank mix with herbicides approved for use in bare ground. The degree and duration of control are dependent on the rate of **Habitat** used, tank mix partner, the volume of carrier, soil texture, rainfall, and other conditions.

Consult manufacturer labels for specific rates and weeds controlled. Always follow the more restrictive label restrictions and precautions for all products used when making an application involving tank mixes.

Applications of **Habitat** may be made any time of the year. Use equipment calibrated to deliver desired gallons per acre spray volume and uniformly distribute the spray pattern over the treated area.

**Postemergence Applications.** Always use a spray adjuvant (see **ADJUVANTS** section of this label) when

making a postemergence application. For optimum performance on tough-to-control annual grasses, applications should be made at a total volume of 100 gallons per acre or less. For quicker burndown or brown-out of target weeds, **Habitat<sup>®</sup> herbicide** may be tank mixed with **Roundup<sup>®</sup> herbicide**. Tank mixes with 2,4-D, or products containing 2,4-D, may reduce the performance of **Habitat**. Always follow the more restrictive label restrictions and precautions for all products used when tank mixing.

**Spot Treatments. Habitat** may be used as a follow-up treatment to control escapes or weed encroachment in a bareground situation. To prepare the spray solution, thoroughly mix in each gallon of water 0.5% to 5% **Habitat** plus an adjuvant. For increased burndown, include **Roundup** as a tank mixture. For added residual weed control, or to increase the weed spectrum, add **Pendulum<sup>®</sup> AquaCap<sup>™</sup> herbicide**, **Overdrive<sup>®</sup> herbicide** or diuron. Always follow the more restrictive label restrictions and precautions for all products used when tank mixing.

## FOR CONTROL OF UNDESIRABLE WEEDS UNDER PAVED SURFACES

**Habitat** can be used under asphalt, pond liners and other paved areas, **ONLY** in industrial sites or where the pavement has a suitable barrier along the perimeter that prevents encroachment of roots of desirable plants.

Use **Habitat** only where the area to be treated has been prepared according to good construction practices. If rhizomes, stolons, tubers or other vegetative plant parts are present in the site, remove them by scalping with a grader blade to a depth sufficient to ensure their complete removal.

**IMPORTANT:** Follow **Habitat** applications with paving as soon as possible. **DO NOT** apply where the chemical may contact the roots of desirable trees or other plants.

This product is not recommended for use under pavement on residential properties, such as driveways or parking lots, or for use in recreational areas, such as under bike or jogging paths, golf cart paths, or tennis courts, or where landscape plantings could be anticipated.

Injury or death of desirable plants may result if this product is applied where roots are present or where roots may extend into the treated area. Roots of trees and shrubs may extend a considerable distance beyond the branch extremities (drip line).

Apply to the soil surface only when final grade is established. **DO NOT** move soil following **Habitat** application.

Apply **Habitat** in sufficient water (at least 100 gals per acre) to ensure thorough and uniform wetting of the soil surface, including the shoulder areas. Add **Habitat** at a rate of 6 pints per acre (2.2 fluid ounces per 1000 square feet) to clean water in the spray tank during the filling operation. Agitate before spraying. If the soil is not moist prior to treatment, incorporation of **Habitat** is needed for herbicide activation. Incorporate **Habitat** into the soil to a depth of 4 to 6 inches using a rototiller or disc. Rainfall or irrigation of 1 inch will also provide uniform incorporation. **DO NOT** allow treated soil to wash or move into untreated areas.

#### Spot Treatments and Crack and Crevice Treatments

Use **Habitat** as an initial or follow-up treatment to control weed escapes or weed encroachment in a bareground situation, including cracks and crevices in paved surfaces such as roadways, runways, and parking areas.

#### FOR SPOT TREATMENT WEED CONTROL IN GRASS PASTURE AND RANGELAND

For the control of undesirable vegetation in grass pasture and rangeland, **Habitat** may be applied as a spot treatment at a rate of 2 to 48 fluid ounces of product per treated acre using any of the described ground application methods. Spot applications to grass pasture and rangeland may not exceed more than 1/10 of the area to be grazed or cut for hay. See appropriate sections of this label for specific use directions for the application method and vegetation control desired. **DO NOT** apply more than 48 fluid ounces per acre per year.

#### **Grazing and Haying Restrictions**

- There are no grazing restrictions following **Habitat** application.
- DO NOT cut forage grass for hay for 7 days after Habitat application.

#### Instructions for Rangeland Use

**Habitat** may be applied to rangeland for the control of undesirable vegetation to achieve one or more of the following vegetation management objectives:

- Control of undesirable (nonnative, invasive and noxious)
   plant species
- Control of undesirable vegetation to aid in the establishment of desirable rangeland plant species
- Control of undesirable vegetation to aid in the establishment of desirable rangeland vegetation following a fire
- Control of undesirable vegetation to reduce wildfire fuel
- Release of existing desirable rangeland plant communities from the competitive pressure of undesirable plant species
- Control of undesirable vegetation for wildlife habitat improvement

To ensure the protection of threatened and endangered plants when applying **Habitat** to rangeland:

- Federal agencies must follow NEPA regulations to ensure protection of threatened and endangered plants.
- State agencies must work with the Fish and Wildlife Service or the Service's designated state conservation agency to ensure protection of threatened and endangered plants.

• Other organizations or individuals must operate under a habitat conservation plan if threatened or endangered plants are known to be present on the land to be treated.

See the appropriate section(s) of this label for specific use directions for the desired rangeland vegetation management objective.

**Habitat<sup>®</sup> herbicide** should only be applied to a given rangeland acre as specific weed problems arise. Long-term control of undesirable weed species ultimately depends on the successful use of land management practices that promote the growth and sustainability of desirable rangeland plant species.

#### **Rotational Crop Instructions**

Rotational crops may be planted 12 months after applying **Habitat** at the specified pasture and rangeland rate. Following 12 months after a **Habitat** application and before planting any crop, a successful field bioassay must be completed. The field bioassay consists of a test strip of the intended rotational crop planted in the previously treated area in the grass pasture/rangeland and grown to maturity. The test strip should include low areas and knolls and include variations in soil type and pH within the treated area. If no crop injury is evident in the test strip, the intended rotational crop may be planted the following year.

Use of **Habitat** in accordance with label directions 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.

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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.

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