U.S. ENVIRONMENTAL F	U.S. ENVIRONMENTAL PROTECT Office of Pesticide Prog		EPA Registration Number:	Date of Issuance:
UNITED STATES	Registration Division (7 Ariel Rios Building 1200 Pennsylvania Ave Washington, D.C. 20	504P) } ., NW	241-401	JUL 7 2011
	NOTICE OF PESTICIDE: _X_ Registration		Term of Issuance:	Unconditional
	X Reregistration	า	Name of Pesticide F	Product:
······································	(under FIFRA, as amended)		Habitat Relea	ase Herbicide
ASF Corpora 6 Davis Drive	s of Registrant (include ZIP Code): tion ngle Park, NC 27709			
gistration Division p	ling differing in substance from that accepted in nor to use of the label in commerce . In any corr			
cordance with the A	and the environment, the Administrator, on his r ct. The acceptance of any name in connection v exclusive use of the name or to its use if it has	vith the registration of a	product under this Ac	
cordance with the A e registrant a right to PA received a nder the author mended. With ecision (RED pove. This ac ungicide, and e need for co me to maintain ubmit one (1)	ct. The acceptance of any name in connection vectors were of the name or to its use if it has a label amendment request subrority of section 3(c)(5) of the Feature of this accepted labeling, all request for Imazapyr have been satisficion is taken under the authority Rodenticide Act, as amended. In this registration of your production of the registration of your production of the registration.	vith the registration of a been covered by others nitted on July 6, leral Insecticide irements set for ed. Therefore, of section 4(g)(2 Reregistration u les. EPA may r t. mended labelin	g will supersed	t is not to be construed as giving rants this request d Rodenticide Act, as gistation Eligibility is the product listed deral Insecticide, on does not eliminate sion of data at any
cordance with the A e registrant a right to PA received a nder the author mended. With ecision (RED pove. This ac ungicide, and e need for co me to maintain ubmit one (1) ccepted labels nipped after to	ct. The acceptance of any name in connection of exclusive use of the name or to its use if it has a label amendment request subrority of section 3(c)(5) of the Feo on this accepted labeling, all requi-) for Imazapyr have been satisfi- tion is taken under the authority Rodenticide Act, as amended. Intinual reassessment of pesticion of the registration of your product	vith the registration of a been covered by others nitted on July 6, leral Insecticide irements set for ed. Therefore, of section 4(g)(2 Reregistration t les. EPA may r t. mended labelin "Accepted" is e of this Notice o	g will supersed g will supersed g will supersed g will supersed	t is not to be construed as giving rants this request d Rodenticide Act, as gistation Eligibility is the product listed deral Insecticide, on does not eliminate sion of data at any le all previously ur records. Products
cordance with the A e registrant a right to PA received a nder the author mended. With ecision (RED pove. This ac- ungicide, and re need for co me to maintain ubmit one (1) ccepted labels hipped after to hichever occu	ct. The acceptance of any name in connection vectors were of the name or to its use if it has a label amendment request subrority of section 3(c)(5) of the Feature of this accepted labeling, all requered for Imazapyr have been satisficion is taken under the authority Rodenticide Act, as amended. In this registration of your product the registration of your product copy of final printed labeling. A s. A copy of your label stamped velve (12) months from the date are first, must bear the new revise a questions regarding this Notice	vith the registration of a been covered by others nitted on July 6, leral Insecticide irements set for ed. Therefore, of section 4(g)(2 Reregistration t les. EPA may r t. mended labelin "Accepted" is e of this Notice o ed label.	g will supersed roloced for you roloced for you roloced for you roloced for you roloced for you	t is not to be construed as giving rants this request d Rodenticide Act, as gistation Eligibility 's the product listed deral Insecticide, on does not eliminate sion of data at any le all previously ur records. Products ing of your label,
cordance with the A e registrant a right to PA received a nder the author mended. With ecision (RED bove. This ac- ungicide, and e need for co me to maintain ubmit one (1) ccepted labels hipped after tw hichever occu	ct. The acceptance of any name in connection v exclusive use of the name or to its use if it has a label amendment request subr prity of section 3(c)(5) of the Feo n this accepted labeling, all requ) for Imazapyr have been satisfi- tion is taken under the authority Rodenticide Act, as amended. Intinual reassessment of pesticion in the registration of your product copy of final printed labeling. A s. A copy of your label stamped velve (12) months from the date ars first, must bear the new revis in questions regarding this Notice (@epa.gov.	vith the registration of a been covered by others nitted on July 6, leral Insecticide irements set for ed. Therefore, of section 4(g)(2 Reregistration t les. EPA may r t. mended labelin "Accepted" is e of this Notice o ed label.	g will supersed roloced for you roloced for you roloced for you roloced for you roloced for you	t is not to be construed as giving rants this request d Rodenticide Act, as gistation Eligibility 's the product listed deral Insecticide, on does not eliminate sion of data at any le all previously ur records. Products ing of your label,



Active Ingredient:

isopropylamine salt of imazapyr: (2-[4,5-dihydro-4-methyl-4-	
(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid)*	.1%
Other Ingredients:	<u>.9%</u>
Total:	.0%
*Equivalent to 43.3% 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid or 4 pounds acid per gallo	on.

EPA Reg. No. 241-401

EPA Est. No.

2

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 detaile. (If you do not understand this label, find someone to explain it to you in detail.)

See inside for complete First Aid, Precautionary Statements, Directions For Use, Conditions of Sale and Warranty, and state-specific crop and/or use site restrictions.

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

ACCI	EP	TED	
JUL	7	2011	
Under the Federal Insecticide, Fungicide, and Rodenticide Act			

Net Contents:

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. <u>241-401</u>

BASF Corporation 26 Davis Drive Research Triangle Park, NC 27709



FIRST AID		
If swallowed	 Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless told to do so by a poison control center or doctor. DO NOT give anything by mouth to an unconscious person. 	
If on skin or clothing	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice. 	
If inhaled	 Move person to fresh air. If person is not breathing, call 911 or an ambulance; then give artificial respiration, preferably by mouth to mouth, if possible. Call a poison control center or doctor for further treatment advice. 	
If in eyes	 Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes; then continue rinsing eyes. Call a poison control center or doctor for treatment advice. 	
	HOTLINE NUMBER	

Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).

Precautionary Statements

Hazards To Humans and Domestic Animals

CAUTION. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing.

Personal Protective Equipment (PPE)

Some materials that are chemically resistant to this product are barrier laminate, butyl rubber, or polyethylene. If you want more options, follow the instructions for **Category A** on an EPA chemical-resistance category selection chart.

Mixers, loaders, applicators, and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical-resistant gloves (except for pilots)

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. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. **DO NOT** reuse them.

Engineering Controls

Pilots must use an enclosed cockpit that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(6)].

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands with plenty of soap and water before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to plants. Drift and runoff may be hazardous to plants in water adjacent to treated areas. **DO NOT** apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment washwater or rinsate. See **DIRECTIONS FOR USE** for additional precautions and requirements.

PHYSICAL AND CHEMICAL HAZARDS

Spray solutions of **Habitat[®] Release herbicide** should be mixed, stored, and applied only in stainless steel, fiber-glass, plastic, and plastic-lined steel containers.

DO NOT mix, store, or apply **Habitat Release** or spray solutions of **Habitat Release** in unlined steel (except stainless steel) containers or spray tanks.

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.

Habitat[®] Release herbicide must be used only in accordance with directions on the label. Keep containers closed to avoid spills and contamination.

Habitat Release may be applied using helicopters, ground operated sprayers such as all terrain vehicles, low-volume hand-operated spray equipment such as backpack and pump-up sprayers, and tree injection equipment.

Observe all cautions and limitations in the package labels of products used in combination with **Habitat Release**.

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 **48 hours**.

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:

- Coveralis
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material
- · Protective eyewear

NONAGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

DO NOT enter or allow others to enter treated areas until sprays have dried.

STORAGE AND DISPOSAL

DO NOT contaminate water, food, or feed by storage or disposal.

Pesticide Storage

DO NOT store below 10° F.

Pesticide Disposal

Wastes resulting from the use of this product must be disposed of on-site or at an approved waste disposal facility.

Container Handling

Nonrefillable Container. DO NOT reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying; then offer for recycling, if available, or reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Triple rinse containers small enough to shake (capacity \leq 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

Triple rinse containers too large to shake

(capacity > 5 gallons) as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times.

Pressure rinse as follows: Empty the remaining contents into application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank, or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container and rinse at about 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

IN CASE OF SPILL

In case of large-scale spillage regarding this product, call: CHEMTREC 1-800-424-9300

BASF Corporation 1-800-832-HELP (4357)

RESTRICTIONS

DO NOT use on food or feed crops. **DO NOT** use on Christmas trees. **DO NOT** treat irrigation ditches, or water used for crop irrigation or for domestic uses. For terrestrial uses, **DO NOT** apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Keep from contact with fertilizers, insecticides, fungicides, and seeds to prevent unintentional exposure of desirable vegetation to **Habitat® Release herbicide**. **DO NOT** apply or drain or flush equipment on or near desirable non-conifer trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. **DO NOT** side trim desirable vegetation with this product. Prevent drift of spray to desirable plants.

Clean application equipment after using this product by thoroughly flushing with water.

Product Information

Habitat Release is a surfactant-free aqueous solution to be mixed in water and generally applied as a postemergence spray for control of most annual and perennial grasses, broadleaf weeds, vines, brambles, and hardwood brush and trees for the establishment and maintenance of wildlife openings and wildlife habitat management in forestry and terrestrial noncrop sites, such as railroad, utility, pipeline and highway rights-of-way, utility plant sites, petroleum tank farms, pumping installations, fence rows, storage areas, nonirrigation ditchbanks and other similar areas. **Habitat Release** may also be mixed in water and used for stump and cut-stem treatment for control of unwanted woody vegetation.

Habitat Release may be applied in forestry sites (land managed for timber production) on areas defined as puddles, potholes, berms of ditches, drainage ditches, intermittent drainage, intermittently flooded low-lying sites, seasonally dry flood plains, and transitional areas between upland and lowland sites except in the states of California and New York. It is permissible to treat marshes, swamps, and bogs after water has receded, as well as seasonally dry flood deltas except in the states of California and New York.

Habitat Release is also applied to control of undesirable vegetation along forest roads, nonirrigation ditchbanks, and the establishment and maintenance of wildlife openings except in the state of California.

SYMPTOMOLOGY

Habitat Release is readily absorbed through foliage and roots and is translocated rapidly throughout the plant, with accumulation in the meristematic regions. Treated plants stop growing soon after spray application. Chlorosis first appears in the youngest leaf tissue. In perennials, the herbicide is translocated into the roots, thus preventing most resprouting. Chlorosis and tissue necrosis may not be apparent in some plant species for several weeks after application. Woody plants, brush, and trees normally do not display the full extent of herbicide control until several months following application.

Spray Drift Requirements

Aerial Applications

- Applicators are required to use a coarse or coarser droplet size (ASABE S572) or, if specifically using a spinning atomizer nozzle, applicators are required to use a volume mean diameter (VMD) of 385 microns or greater for release heights below 10 feet. Applicators are required to use a very coarse or coarser droplet size or, if specifically using a spinning atomizer nozzle, applicators are required to use a VMD of 475 microns or greater for release heights above 10 feet. Applicators must consider the effects of nozzle orientation and flight speed when determining droplet size.
- Applicators are required to use upwind swath displacement.
- The boom length must not exceed 60% of the wingspan or 90% of the rotor blade diameter to reduce spray drift.
- Applications with wind speeds less than 3 mph and with wind speeds greater than 10 mph are prohibited.
- Applications into temperature inversions are prohibited.

Ground Boom Applications

- Applicators are required to use a nozzle height below
 4 feet above the ground or plant canopy and coarse or
 coarser droplet size (ASABE S572) or, if specifically using
 a spinning atomizer nozzle, applicators are required to
 use a volume mean diameter (VMD) of 385 microns or
 greater.
- Applications with wind speeds greater than 10 mph are prohibited.
- Applications into temperature inversions are prohibited.

WILDLIFE HABITAT MANAGEMENT

Habitat Release may be used to control exotic and other undesirable vegetation for purposes of wildlife habitat enhancement, within forestry as well as terrestrial noncrop sites. Applications can be made to control undesirable vegetation (see WEEDS CONTROLLED section) prior to planting desirable species and to release desirable plant species (see TOLERANT PLANT SPECIES section). Spot, directed foliar and cut stump and stem treatments can be made to selectively control unwanted plants for wildlife habitat management and enhancement. See below for specific application directions.

APPLICATION RATES

Habitat[®] Release herbicide must be applied at the following use rates depending upon the vegetation to be controlled and the type of application being made.

Target Vegetation	Application Type	Use Rate
Hardwood trees and brush	Directed foliar or spot spray	1 to 2% by volume
	Stump or cut stem	<u>Dilute</u> – 6 fl ozs/gallon of water
		Concentrate – undiluted to 32 fl ozs/gallon of water
	Broadcast	24 to 40 fl ozs/acre
Herbaceous	Broadcast	4 to 10 fl ozs/acre
weeds	Directed	0.4 to 0.6 fl oz/gallon of water

See specific use directions in appropriate section.

MIXING AND APPLICATION INSTRUCTIONS

Helicopter Spray Equipment: Thoroughly mix the specified amount of Habitat Release in 5 to 30 gallons of water per acre and uniformly apply with properly calibrated aerial equipment. A suitable nonionic surfactant may be added to the spray solution to enhance control of undesirable vegetation. All precautions must be taken to minimize or eliminate spray drift. A drift control agent may be added at the recommended label rate except when applying with a **Microfoil® boom**, **Thru-Valve® boom** or other similar equipment. A foam-reducing agent may be added at the specified label rate, if needed.

IMPORTANT: DO NOT make applications by fixed-wing aircraft. Maintain adequate buffer zones. Thoroughly clean application and mixing equipment, including landing gear, immediately after use. Prolonged exposure of this product to uncoated steel (except stainless steel) surfaces may result in corrosion and failure of the exposed part.

Broadcast Application with Ground Operated Spray Equipment: Thoroughly mix and apply the specified amount of **Habitat Release** in 5 to 60 gallons of water per acre. A suitable nonionic surfactant may be added to the spray solution to enhance control of undesirable vegetation. A drift control agent and a foam reducing agent may be added at the recommended label rates, if needed. If desired, a spray pattern indicator may be added at the recommended label rate.

For best results, uniformly cover the foliage of the vegetation to be controlled with the spray solution.

IMPORTANT: DO NOT spray under windy or gusty conditions. Maintain adequate buffer zones. Clean application and mixing equipment after using this product by thoroughly flushing with water.

Side Trimming: DO NOT side trim with **Habitat Release** unless severe injury or death of the treated tree can be tolerated. **Habitat Release** is readily translocated and can result in death of the entire tree.

UNDESIRABLE HARDWOOD VEGETATION CONTROL

Directed Foliar or Spot Spray Applications

When making directed or spot spray applications with ground spray equipment, or low-volume hand-operated spray equipment, thoroughly mix a solution of 1 to 2 percent by volume of **Habitat Release** and a minimum of 1/4 percent by volume nonionic surfactant in water.

To mix the spray solution, add the volume of **Habitat Release** and nonionic surfactant indicated in the table below to the desired amount of water.

SPRAY	Habitat	CUDEACTANT		
	1.0 %	2.0%	- SURFACTANT 0.25%	
1 gallon	1.3 fl ozs (2.5 Tblsp)	2.6 fl ozs (5 Tblsp)	0.3 fl oz (2 tsp)	
5 gallons	6.4 fl ozs (13 Tblsp)	13 fl ozs (26 Tblsp)	1.6 fl ozs (3.5 Tblsp)	
10 gallons	13 fl ozs	26 fl ozs	3.2 fl ozs (7 Tblsp)	
25 gallons	2 pints	4 pints	8 fl ozs	
100 gallons	1 gallon	2 gallons	2 pints	

Tblsp = tablespoon tsp = teaspoon 2 tablespoons = 1 fluid ounce

z tablespoons = 1 huid ounce

IMPORTANT: DO NOT overapply causing runoff from the treated foliage. Avoid direct application to desired plant species as injury may occur. DO NOT apply on or near desirable non-conifer trees or other plants, or on areas where their roots may extend, or in locations where the chemical may be washed or moved into contact with their roots. DO NOT exceed 40 fl ozs of Habitat Release per acre.

Application Tips: For low volume, select proper nozzles to avoid overapplication. Proper application is critical to ensure desirable results. Best results are achieved when the spray covers the crown and approximately 70 percent of the plant. The use of an even flat fan tip with a spray angle of 40 degrees or less will aid in proper deposition.

Recommended tip sizes include 4004E or 1504E. For a straight stream and cone pattern, adjustable cone nozzles such as 5500 X3 or 5500 X4 may be used. Attaching a rollover valve onto a Spraying Systems Model 30 gunjet or other similar spray guns allows for the use of both a flat fan and cone tips on the same gun.

Proper Spray Pattern: Moisten, but do not drench target vegetation causing spray solution to run off.

Low Volume with Backpacks: For brush up to 4 feet tall, spray down on the crown, covering crown and pene-trating approximately 70% of the plant.

For brush 4 to 8 feet tall, swipe the sides of target vegetation by directing spray to at least two sides of the plant in smooth vertical motions from the crown to the bottom. Make sure to cover the crown whenever possible. For brush over 8 feet tall, lace sides of the brush by directing spray to at least two sides of the target in smooth zigzag motions from crown to bottom.

Low Volume with Hydraulic Handgun Application

Equipment: Use same technique as described above for individual stem treatments.

Broadcast Applications

For broadcast applications, simulate a gentle rain near the top of target vegetation, allowing spray to contact the crown and penetrate the target foliage without falling to the understory. Herbicide spray solution which contacts the understory may result in severe injury or death of plants in the understory. **DO NOT** exceed 40 fl ozs of **Habitat[®] Release herbicide** per acre.

Stump and Cut Stem Treatments

Habitat Release may be used to control undesirable woody vegetation by applying a solution of the herbicide in water to the cambium area of freshly-cut stump surfaces or to cuts on the stem of the target woody vegetation. Applications can be made at any time of the year except during periods of heavy sap flow in the spring. Tree injection and cut stem treatments are most effective in late summer and early fall.

Mixing: Habitat Release may be mixed as either a concentrated or dilute solution for stump and cut stem treatments. The dilute solution may be used for applications to the surface of the stump or to cuts on the stem of the target woody vegetation. Concentrated solutions may be used for applications to cuts on the stem. Use of the concentrated solution permits application to fewer cuts on the stem, especially for large diameter trees. Follow the application instructions to determine proper application techniques for each type of solution.

Applications with Dilute Solutions: To prepare a dilute solution, mix 6 fl ozs of **Habitat Release** with one gallon of water.

For cut stump treatments: Spray or brush the solution onto the cambium area of the freshly cut stump surface. Ensure that the solution thoroughly wets the entire cambium area (the wood next to the bark of the stump).

For tree injection treatments: Using standard injection equipment, apply 1 milliliter of solution at each injection site around the tree with no more than one-inch intervals between cut edges. Ensure that the injector completely penetrates the bark at each injection site.

For frill or girdle treatments: Using a hatchet, machete, or similar device, make cuts through the bark at intervals around the tree with no more than two-inch intervals between cut edges. Spray or brush the solution into each cut until thoroughly wet.

Applications with Concentrate Solutions: To prepare a concentrated solution, use undiluted product or mix with up to 75% water, by volume.

For tree injection treatments: Using standard injection equipment, apply 1 milliliter of solution at each injection site. Make at least one injection cut for every three inches of diameter at breast height (dbh) on the target tree. For example, a three-inch-dbh tree will receive 1 injection cut and a six-inch-dbh tree will receive 2 injection cuts. On trees requiring more than one injection site, place the injection cuts at approximately equal intervals around the tree.

For frill or girdle treatments: Using a hatchet, machete, or similar device, make cuts through the bark at approximately equal intervals around the tree. Make at least one cut for every three inches of diameter at breast height (dbh) on the target tree. For example, a three-inch-dbh tree will receive 1 cut and a six-inch-dbh tree will receive 2 cuts. Spray or brush the solution into each cut until thoroughly wet.

NOTE: Injury may occur to non-target or desirable woody plants if they extend from the same root system or their root systems are grafted to those of the treated tree.

HERBACEOUS WEED CONTROL

Habitat Release may be applied as a broadcast treatment using ground sprayers or as a directed treatment using backpack or handheld sprayers for the control of herbaceous weeds. For broadcast treatments apply Habitat Release at rates of 4 to 10 fl ozs per acre and include a minimum of 1/4 percent by volume nonionic surfactant. For directed applications mix 0.4 to 0.6 fl oz Habitat Release and 0.2 fl oz nonionic surfactant per gallon of water. For best results, applications should be made to newly emerged weeds. For difficult to control weeds, use the higher labeled rates.

TOLERANT PLANT SPECIES

The following plant species are tolerant to **Habitat Release**. Many of these species are preferred food; browse and cover plants for wildlife. These species may be released from herbaceous weed and brush competition with an application of **Habitat Release**. **Habitat Release** must be used only in accordance with directions on the label.

Beggarweeds

Beggarweed (Desmodium nudiflorum) Beggarweed (Desmodium rotundifolium) Florida beggarweed (Desmodium tortuosum) Black locust (Robinia pseudo-acacia) Blackberry (Rubus argutus) Butterfly pea (Centrosema virginianum) Butterfly pea (Centrosema virginianum) Butterfly pea (Clitoria mariana) Dewberry (Rubus trivialis) Dollar weed (Rhynchosia reniformis) Erect milk pea (Galactia volubilis) Goats rue (Tephrosia virginiana) Ground nut (Apios americana) Hairy rhynchosia (Rhynchosia tomentosa) Hog peanut (Amphicarpa bracteata)

TOLERANT PLANT SPECIES (continued)

Indigo bush (Amorpha fruticosa) Lespedeza

Bicolor lespedeza (Lespedeza bicolor) Common lespedeza (Lespedeza striata) Hairy lespedeza (Lespedeza hirta) Japonica lespedeza (Lespedeza japonica) Prostrate lespedeza (Lespedeza procumbens) Roundhead lespedeza (Lespedeza capitata) Thunburg lespedeza (Lespedeza thunburgii) Wand lespedeza (Lespedeza intermedia)

Milk pea (Strophostyles helvola) Narrowleaf vetch (Vicia dasycarpa) Partridge pea (Cassia fasciculata) Pencil flower (Stylosanthes biflora) Redbud (Cercis canadensis) Samson snakeroot (Psoralea psoralioides) Sensitive briar (Schrankia microphylla) Sesbania (Sesbania macrocarpa) Small partridge pea (Cassia nictitans) Spike tephrosia (Tephrosia spicata) Trailing wild bean (Strophostyles umbellata) Wild indigo (Indigofera caroliniana) Wild pea (Vigna suteola)

The following plant species commonly colonize a site after treatment with **Habitat® Release herbicide**. Seed of these species may be present in the soil or may be dispersed within the area by wind and animals.

Beautyberry (Callicarpa americana) Beggar ticks (Bidens spp.) Blue curls (Trichostema dichotomum) Broomsedges (Andropogon spp.) Carpetweed (Mollugo verticillata) Common ragweed (Ambrosia artemisiifolia) Dove weed (Croton glandulosus) Evening primrose (Oenothera biennis) Fireweed (Epilobium angustifolium) Florida purslane (Richardia scabra) Flowering spurge (Euphorbia corollata) Giant ragweed (Ambrosia trifida) Greenbrier (Smilax bona-nox) Ground cherry (Physalis virginiana) Lambsquarters (Chenopodium album) Lovevine (Cuscuta gronovii) Maypop (Passiflora incarnata) Morningglory (Ipomoea purpurea) Muscadine grape (Vitis rotundifolia) New Jersey tea (Ceanothus americanus) Panic grasses (Panicum spp.) Pennsylvania smartweed (Polygonum pensylvanicum) Piqweed (Amaranthus hybridus) Poison ivy (Rhus radicans) Pokeweed (Phytolacca americana) Poor-joe (Diodia teres) Sheep-sorrel (Rumex hastatulus) Smooth sumac (Rhus glabra) Trumpet vine (Campsis radicans) Violets (Violet spp.)

TOLERANT PLANT SPECIES (continued)

Virginia creeper (*Parthenocissus quinquefolia*) Wild geranium (*Geranium carolinianum*) Winged sumac (*Rhus copallina*) Woolly croton (*Croton capitatus*) Yellow wood sorrel (*Oxalis stricta*)

WEEDS CONTROLLED

Habitat Release will provide postemergence control and some residual control of the following target vegetation species. Degree of control is both species and rate dependent. **Habitat Release** must be used only in accordance with directions on the label.

Grasses

The species of annual and perennial grasses controlled by **Habitat Release** include the following:

Annual bluegrass (Poa annua) Bahiagrass (Paspalum notatum) Barnyardgrass (Echinochloa crus-galli) Beardgrass (Andropogon spp.) Bermudagrass (Cynodon dactylon)1 Big bluestem (Andropogon gerardii) Broadleaf signalgrass (Brachiaria platyphylla) Canada bluegrass (Poa compressa) Cattail (Typha spp.) Cheat (Bromus secalinus) Cogongrass (Imperata cylindrica)² Crabgrass (Digitaria spp.) Crowfootgrass (Dactyloctenium aegyptium) Dallisgrass (Paspalum dilatatum) Downy brome (Bromus tectorum) Fall panicum (Panicum dichotomiflorum) Feathertop (Pennisetum villosum) Fescue (Festuca spp.) Foxtail (Setaria spp.) Giant reed (Arundo donax) Goosegrass (Eleusine indica) Guineagrass (Panicum maximum) Italian ryegrass (Lolium multiflorum) Itcharass (Rottboellia exaltata) Johnsongrass (Sorghum halepense)1 Junglerice (Echinochloa colonum) Kentucky bluegrass (Poa pratensis) Lovegrass (Eragrostis spp.)1 Orchardgrass (Dactylis glomerata) Panicum spp. Paragrass (Brachiaria mutica) Phragmites (Phragmites australis) Prairie cordgrass (Spartina pectinata) Prairie threeawn (Aristida oligantha) Quackgrass (Agropyron repens) Reed canary grass (Phalaris arundinacea) Saltgrass (Distichlis stricta) Sand dropseed (Sporobolus cryptandrus) Sandbur (Cenchrus spp.) Signalgrass (Brachiaria platyphylia) Smooth brome (Bromus inermis) Sprangletop (Leptochloa spp.) Timothy (Phleum pratense)

WEEDS CONTROLLED (continued)

Grasses (continued)

Torpedograss (Panicum repens) Vaseygrass (Paspalum urvillei) Wild barley (Hordeum spp.) Wild oats (Avena fatua) Wirestem muhly (Muhlenbergia frondosa) Witchgrass (Panicum capillare) Woolly cupgrass (Eriochloa villosa)

¹Use higher labeled rates. ²Use minimum of 24 fl ozs per acre.

Broadleaf Weeds

The species of annual and perennial broadleaf weeds controlled by **Habitat**[®] **Release herbicide** include the following:

Arrowwood (Pluchea sericea) Broom snakeweed (Gutierrezia sarothrae) Bull thistle (Cirsium vulgare) Burclover (Medicago spp.) Burdock (Arctium spp.) Camphorweed (Heterotheca subaxillaris) Canada thistle (Cirsium arvense) Carolina geranium (Geranium carolinianum) Carpetweed (Mollugo verticillata) Chickweed, mouseear (Cerastium vulgatum) Clover (Trifolium spp.) Cocklebur (Xanthium strumarium) Common chickweed (Stellaria media) Common ragweed (Ambrosia artemisiifolia) Cudweed (Gnaphalium spp.) Dandelion (Taraxacum officinale) Desert camelthorn (Alhagi pseudalhagi) Diffuse knapweed (Centaurea diffusa) Dock (Rumex spp.) Dogfennel (Eupatorium capillifolium) Fiddleneck (Amsinckia intermedia) Filaree (Erodium spp.) Fleabane (Erigeron spp.) Giant raqweed (Ambrosia trifida) Goldenrod (Solidago spp.) Gray rabbitbrush (Chrysothamnus nauseosus) Henbit (Lamium amplexicaule) Hoary vervain (Verbena stricta) Horseweed (Convza canadensis) Indian mustard (Brassica juncea) Japanese bamboo/knotweed (Polygonum cuspidatum) Knotweed, prostrate (Polygonum aviculare) Kochia (Kochia scoparia) Lambsquarters (Chenopodium album) Little mailow (Malva parviflora) Milkweed (Asclepias spp.) Miners lettuce (Montia perfoliata) Mullein (Verbascum spp.) Nettleleaf goosefoot (Chenopodium murale) Oxeye daisy (Chrysanthemum leucanthemum) Pepperweed (Lepidium spp.) Pigweed (Amaranthus spp.)

WEEDS CONTROLLED (continued)

Broadleaf Weeds (continued)

Plantain (Plantago spp.) Pokeweed (Phytolacca americana) Primrose (Oenothera kunthiana) Puncturevine (Tribulus terrestris) Purple loosestrife (Lythrum salicaria) Purslane (Portulaca spp.) Pusley, Florida (Richardia scabra) Rocket, London (Sisymbrium irio) Rush skeletonweed (Chondrilla juncea) Russian knapweed (Centaurea repens) Russian thistle (Salsola kali) Saltbush (Atriplex spp.) Shepherdspurse (Capsella bursa-pastoris) Silverleaf nightshade (Solanum elaeagnifolium) Smartweed (Polygonum spp.) Sorrell (Rumex spp.) Sowthistle (Sonchus spp.) Spurge, annual (Euphorbia spp.) Stinging nettle (Urtica dioica) Sunflower (Helianthus spp.) Sweet clover (Melilotus spp.) Tansymustard (Descurainia pinnata) Texas thistle (Cirsium texanum) Velvetleaf (Abutilon theophrasti) Western ragweed (Ambrosia psilostachya) Wild carrot (Daucus carota) Wild lettuce (Lactuca spp.) Wild parsnip (Pastinaca sativa) Wild turnip (Brassica campestris) Woollyleaf bursage (Ambrosia grayi) Yellow starthistle (Centaurea solstitialis) Yellow woodsorrel (Oxalis stricta)

Vines and Brambles

The species of vines and brambles controlled by **Habitat Release** include the following:

Field bindweed (Convolvulus arvensis) Greenbriar (*Smilax* spp.) Hedge bindweed (*Calystegia sepium*) Honeysuckle (*Lonicera* spp.) Kudzu (*Pueraria lobata*)^{1,2} Morningglory (*Ipomoea* spp.) Poison ivy (*Rhus radicans*) Redvine (*Brunnichia cirrhosa*) Trumpetcreeper (*Campsis radicans*) Virginia creeper (*Parthenocissus quinquefolia*) Wild buckwheat (*Polygonum convolvulus*) Wild grape (*Vitis* spp.) Wild rose (*Rosa* spp.)¹ Including: Multiflora rose (*Rosa multiflora*) Macartney rose (*Rosa bracteata*)

¹Use higher labeled rates. ²Use a minimum of 75 GPA. Control of established stands may require multiple applications.

WEEDS CONTROLLED (continued)

Woody Brush and Trees

The species of woody brush and trees controlled by **Habitat[®] Release herbicide** include the following:

Alder (Alnus spp.) American beech (Fagus grandifolia) Ash (Fraxinus spp.)1 Aspen (Populus spp.) Autumn olive (Elaeagnus umbellata) Bald cypress (Taxodium distichum) Bigleaf maple (Acer macrophyllum) Birch (Betula spp.)1 Black oak (Quercus kelloggii) Blackgum (Nyssa sylvatica)² Boxelder (Acer negundo) Brazilian peppertree (Schinus terebinthifolius) Ceanothis (Ceanothis spp.) Cherry (Prunus spp.)^{1,2} Chinaberry (Melia azedarach) Chinese tallow-tree (Sapium sebiferum) Chinquapin (Castanopsis chrysophylla) Cottonwood (Populus trichocarpa and Populus deltoides) Cypress (Taxodium spp.) Dogwood (Cornus spp.)1 Eucalyptus (Eucalyptus spp.) Hawthorn (Crataegus spp.) Hickory (Carya spp.)1 Huckleberry (Gaylussacia spp.) Lvonia spp. Including: Fetterbush (Lyonia lucida) Staggerbush (Lyonia mariana) Madrone (Arbutus menziesii) Maple (Acer spp.) Melaleuca (Melaleuca quinquenervia) Mulberry (Morus spp.)^{1,3} Oak (Quercus spp.)4 Persimmon (Diospyros virginiana)² Poison oak (Rhus diversiloba) Popcorn-tree (Sapium sebiferum) Poplar (Populus spp.) Privet (Ligustrum vulgare) Red alder (Alnus rubra) Red maple (Acer rubrum) Saltcedar (Tamarix pentandra) Sassafras (Sassafras albidum) Sourwood (Oxydendrum arboreum)² Sumac (Rhus spp.) Sweetgum (Liquidambar styraciflua) Sycamore (Platanus occidentalis) Tanoak (Lithocarpus densiflorus)1 Titi (Cyrilla racemiflora)1 Tree of heaven (Ailanthus altissima) Vaccinium spp. Including: Blueberry (Vaccinium spp.) Sparkleberry (Vaccinium arboreum) Willow (Salix spp.) Yellow poplar (Liriodendron tulipifera)1

¹Use higher labeled rates.

²Best control with applications prior to formation of fall leaf color.
³The degree of control may be species dependent.
⁴For Water oak (*Quercus nigra*), Laurel oak (*Q. laurifloria*), Willow oak

(Q. phellos) and Live oak (Q. virginiana), use higher labeled rates.

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. 1108 Habitat is a registered trademark of BASF.

Microfoil is a registered trademark of Rhone Poulenc Ag Company.

Thru-Valve is a registered trademark of Waldrum Specialties.

© 2011 BASF Corporation All rights reserved.

000241-00401.20081113b.**NVA 2008-04-117-0302** Supersedes: American Cyanamid 5/00

> BASF Corporation 26 Davis Drive Research Triangle Park, NC 27709



The Chemical Company