

# Nufarm

# Imazuron<sup>TM</sup>

## Herbicide

A broad-spectrum dispersible granule herbicide for use on specified non-crop sites and under paved areas.

### ACTIVE INGREDIENTS:

Imazapyr (2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1H-imidazol-2-yl]-3-pyridinecarboxylic acid) .....	7.78%
Diuron (3-[3,4-dichlorophenyl]-1,1-dimethylurea) .....	62.22%

OTHER INGREDIENTS: .....30.00%

TOTAL: .....100.00%

### KEEP OUT OF REACH OF CHILDREN CAUTION / PRECAUCION

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

SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300  
For Medical Emergencies Only, Call (877) 325-1840

EPA REG. NO. 228-654

Manufactured for  
Nufarm Americas Inc.  
11901 S. Austin Avenue  
Alsip, IL 60803



Grow a better tomorrow.

**PRECAUTIONARY STATEMENTS**  
**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**  
**CAUTION**

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

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Some materials that are chemical-resistant to this product are: barrier laminate, butyl rubber  $\geq$  14 mils, nitrile rubber  $\geq$  14 mils, or viton  $\geq$  14 mils. If you want more options, follow the instructions for Category A on an EPA chemical resistance category selection chart.

**All pilots must wear:**

- Long sleeved shirt and long pants, and
- Shoes, plus socks.

**All mixers, loaders, other applicators and handlers must wear:**

- Long sleeved shirt and long pants,
- Shoes plus socks,
- Chemical-resistant gloves,
- NIOSH approved dust/mist filtering respirator equipped with any N2 or R, P or HE filter media or an NIOSH-approved dust/mist filtering respirator with approval number prefix TC-21C,
- Chemical resistant apron when mixing, loading, or cleaning equipment or spills.

See Engineering Controls for additional requirements.

Follow manufacturer's instructions for cleaning/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)].

Flagger supporting aerial applications must use an enclosed cab that meets the definition in the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240(d)(5)] for dermal protection. In addition, flaggers must wear long-sleeved shirt, long pants, shoes, and socks.

**USER SAFETY RECOMMENDATIONS**

**Users should:**

- Wash hands thoroughly with soap and water after handling and 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.

**FIRST AID**

**IF IN EYES**

- Hold eye 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 eye.
- Call a poison control center or doctor for treatment advice.

**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.

**HOT LINE 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 1-800-424-9300 for emergency medical treatment information.

**ENVIRONMENTAL HAZARDS**

This product is toxic to plants. Drift and run-off may be hazardous to plants in water adjacent to treated areas. 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. **DO NOT** contaminate water when disposing of equipment washwaters or rinsate. Apply this product only as specified on this label.

**PHYSICAL OR CHEMICAL HAZARDS**

Spray solutions of this product should be mixed, stored and applied only in stainless steel, fiberglass, plastic, and plastic-lined steel containers. **DO NOT** mix, store or apply this product or spray solutions of this product 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.

**USE RESTRICTIONS**

- **DO NOT** enter or allow others to enter treated areas until sprays have dried.
- Aerial application is prohibited **except** for application to rights-of-way.
- **DO NOT** USE IN CALIFORNIA.
- **DO NOT** apply more than a total of 12 lbs. a.i. of diuron (19 pounds per acre of this product) or more than two applications of diuron in a 12-month period.
- **DO NOT** apply more than 12 lbs. ai/A of diuron per application in areas of high rainfall or dense vegetation. Do not apply more than 8 lbs. ai/A of diuron per application in all other areas.
- **DO NOT** reapply this product or any other product containing diuron within 90 days of treatment with any product containing diuron.
- **DO NOT** mix, store or apply this product or spray solutions of this product in unlined steel (except stainless steel) containers or spray tanks.
- **DO NOT** use on food or feed crops.
- **DO NOT** treat irrigation ditches, or water used for crop irrigation or for domestic purposes.
- **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 washwaters.
- **DO NOT** drain or flush equipment on or near desirable 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** use on turfgrass at residential sites (including homes, apartment complexes, condominium grounds, daycare facilities, schools, playgrounds, parks, recreational areas, and sports fields).
- **DO NOT** side trim desirable vegetation with this product.
- **DO NOT** allow this product to come in contact with other fertilizers, insecticides, fungicides and seeds.
- **DO NOT** allow sprays to drift on to desirable plants.
- Be sure to clean application equipment after using this product by thoroughly flushing with water.
- **DO NOT** apply this product with a spoon, a pump-feed backpack spreader or a gravity feed backpack spreader.
- Use of this product in certain portions of California, Oregon, and Washington is subject to the January 22, 2004 Order for Injunctive relief in Washington Toxics Coalition, et. al. v. EP, C01-0132C, (W.D. WA). For further information, please refer to <http://www.epa.gov/espp/wtc/>.

### PRODUCT INFORMATION

This product is a dispersible granule that is mixed with water and a spray adjuvant and applied as a spray solution to the following noncropland areas where bare ground is desired: industrial non-crop areas including utility plant sites, petroleum tank farms, pumping installations, storage areas, railroads, utility, and pipeline rights-of-way; highway rights-of-way; non-irrigation ditchbanks; fence rows; farmyards; and non-crop areas around farm buildings. This product may also be used to control weeds under paved surfaces.

This product controls most annual and perennial grasses and broadleaf weeds in addition to many brush and vine species. This product also provides residual control of weeds that germinate in treated areas.

For annual weed control, either preemergence or postemergence applications may be used; however, a late preemergence to early postemergence application provides the best results in most situations.

For perennial weed control, this product is only effective when applied postemergence and will not control perennial weeds that have not emerged at the time of application. For best results, applications should be made when the weeds are growing vigorously and the spray solution should include a spray adjuvant. For specific instructions, see the "Adjuvants" section of this label.

The duration of residual weed control depends upon the types of weeds present, the application rate, and weather conditions. Longer residual control occurs in areas with sensitive weed species, higher product use rates, lower precipitation and cooler soil temperatures. Higher than average rainfall or warmer than normal temperatures can significantly affect the residual control this product provides and shorten the overall length of control.

#### Precautions for Avoiding Injury to Non-Target Plants

Untreated trees may be affected by root uptake of this product through movement into the topsoil and injury or loss of desirable trees or other plants may result if this product is applied on or near desirable trees or other plants, on areas where their roots extend, or in locations where the treated soil may be washed or moved into contact with their roots. Treatment of powdery dry soil or light sandy soil when there is little likelihood of rainfall soon after treatment may result in off target movement and possible damage to desirable plants when soil particles are moved by water and/or wind. Exposure to this product may injure or kill most crops and injury to crops may result if treated soil is washed, blown or moved onto land used to produce crops.

#### SPRAY DRIFT

Use best practices to avoid drift to all other crops and non-target areas. **DO NOT** apply when conditions favor drift from target areas. The interaction of many equipment- and weather-related factors determine the potential for spray drift. Avoiding spray drift at the application site is the responsibility of the applicator. The applicator must follow the most restrictive precautions to avoid drift, including those found in this labeling as well as applicable state and local regulations and ordinances. A drift control agent may reduce drift, however, it may also decrease weed control.

#### Aerial Applications:

- (1) 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.
- (2) Applicators are required to use upwind swath displacement.
- (3) The spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The boom length must not exceed 60% of the wingspan or 90% of the rotor blade diameter to reduce spray drift.
- (4) Applications with wind speeds less than 3 mph and with wind speeds greater than 10 mph are prohibited.
- (5) Applications into temperature inversions are prohibited.
- (6) **DO NOT** apply by air if sensitive non-target crops are within 100 feet of the application site.

#### Ground Boom Applications:

Apply with nozzle height no more than 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.

Use the lowest nozzle height consistent with safety and efficacy.

Direct spray into target vegetation.

Apply only when wind speed is less than or equal to 10 miles per hour.

**DO NOT** apply into temperature inversions.

### APPLICATION INSTRUCTIONS

#### For rights-of-way and non-crop areas:

- The maximum rate per application is 19 lbs./acre of this product (equivalent to 12 lbs. diuron active ingredient per acre) in areas of high rainfall or dense vegetation.
- For all other areas, the maximum rate per application is 13 lbs./acre of this product (equivalent to 8 lbs. diuron active ingredient per acre).
- Make a maximum of two applications per year.
- The minimum retreatment interval is 90 days.

Mix this product in water and apply the specified gallons per acre of spray volume using properly calibrated equipment to deliver a uniformly distributed spray pattern. Apply this product at 7-19 pounds of product per acre, although rates as low as 5 pounds per acre may be used *only* if tank mixed with another herbicide (see the TANK MIXES section below). For retreatment purposes within the same growing season, apply this product at a rate of less than 7 pounds per acre. Use sufficient volume to insure thorough coverage.

Rainfall may significantly affect length of residual weed control achieved with this product and in cases of increasing rainfall amounts, higher rates may need to be applied to achieve the desired residual control. Refer to the following table for product rates for different annual rainfall amounts. Actual use rates will depend upon the length of residual control desired as well as weed pressure and environmental conditions.

Average Annual Rainfall	Product Rate
Less than 15 inches	7-10 pounds <sup>†</sup>
Between 15 and 35 inches	8-13 pounds
Greater than 35 inches	13-19 pounds

<sup>†</sup>Initial applications of this product may be made at rates as low as 5-6 pounds per acre, but must be tank mixed with another herbicide (see the TANK MIXES section below).

When both mixing and spraying, be sure to maintain sufficient agitation to keep product suspended in spray mixture.

**Postemergence Applications:** When making postemergence applications, always use a spray adjuvant (see “Adjuvants” section of this label). For best results on tough to control perennial weeds, applications should be made in combination with one quart per acre of methylated seed oil. Use sufficient volume to insure thorough coverage. For faster burndown or brown-out of target weeds, tank mix this product with products such as Razor<sup>®</sup>, Razor Pro<sup>®</sup>, Credit<sup>®</sup>, or Finale<sup>®</sup> (refer to the TANK MIXES section for specific instructions).

#### Tank Mixes

Tank Mix this product with Razor<sup>®</sup>, Razor<sup>®</sup> Pro, Credit<sup>®</sup>, Karmex<sup>®</sup> (Diuron), Oust<sup>®</sup>, Spyder<sup>®</sup>, Spyder<sup>®</sup> Extra, ProClipse<sup>®</sup>, Tahoe<sup>®</sup>, Relegate<sup>®</sup>, Diablo<sup>®</sup>, Vanquish<sup>®</sup>, Plateau<sup>®</sup>, Arsenal<sup>®</sup>, or Polaris<sup>®</sup>. **DO NOT** use a tank mix product if the tank mix product label prohibits such mixing. Consult the manufacturer’s labels for specific rates and weeds controlled, and always follow the more restrictive label instructions and restrictions on all labels used when making a tank-mix application.

NOTE: Tank-mixes with 2,4-D or products that contain 2,4-D have resulted in reduced perennial weed control performance.

#### For Control of Undesirable Weeds under Paved Surfaces

Apply this product only to areas that have been prepared according to good construction practices. All rhizomes, stolons, tubers, or other vegetative plant parts present in the site should be removed by scalping with a grader blade to a depth sufficient to ensure their complete removal.

Apply this product under asphalt, pond liners and other paved areas *only* in industrial sites or where the pavement has a barrier along the perimeter that will prevent encroachment of roots of desirable plants. Sites should be paved as soon as possible after application.

NOTE: **DO NOT** use this product where landscape plantings could be anticipated, or under paved areas such as driveways or parking lots on residential properties. **DO NOT** use in recreational areas such as under bike or jogging paths, golf cart paths, or tennis courts. Injury or death of desirable plants may result if this product is applied where roots are present or where they may extend into the treated area.

#### Application Directions for Paved Surfaces:

When final grade is established, apply this product in sufficient water to ensure thorough and uniform wetting of the soil surface, including the shoulder areas. **DO NOT** move soil following application. In the spray tank, mix clean water with 19 pounds of product per acre during the filling operation and be sure to agitate before spraying.

Incorporation of this product is required to activate the herbicide if the soil is not moist prior to treatment. Use a rototiller or disc to incorporate product into the soil to a depth of 4 to 6 inches. One inch of rainfall or irrigation will also provide uniform incorporation. If using water to incorporate, do not allow treated soil to wash or move into untreated areas.

#### Adjuvants

**Nonionic Surfactants:** A nonionic surfactant at a rate 0.25% v/v or higher (see manufacturer’s label) of the spray solution (0.25% v/v is equivalent to 1 quart in 100 gallons) may be used with this product. For best results, select a nonionic surfactant with a HLB (hydrophilic to lipophilic balance) ratio between 12 - 17 and that has at least 70% surfactant in the formulated product (alcohols, fatty acids, oils, ethylene glycol or diethylene glycol should not be considered as surfactants to meet the above requirements).

**Methylated Seed Oils or Vegetable Oil Concentrates:** Methylated seed oils are the adjuvant of choice and research indicates that these oils may aid in the deposition and uptake of this product by plants under moisture or temperature stress and will increase control of perennial weeds. Use a methylated seed oil or vegetable-based seed oil concentrate at the rate of 1.5 - 2 pints per acre in place of a surfactant. When using spray volumes greater than 30 gallons per acre, methylated seed oil or vegetable based seed oil concentrates should be mixed at a rate of 1% of the total spray volume, or a nonionic surfactant as described above may be used instead.

**Silicone-Based Surfactants:** Silicone-based surfactants may allow greater spreading on the leaf surface as compared to conventional nonionic surfactants by reducing the surface tension of the spray droplets. However, some silicone-based surfactants may limit herbicide uptake by drying too rapidly. Refer to the manufacturer’s label for specific rate instructions.

**Fertilizer/Surfactant Blends:** Use 2 - 3 pints of nitrogen-based liquid fertilizers (such as 28%N, 32%N, 10-34-0, or ammonium sulfate) per acre in combination with the specified rate of nonionic surfactant, methylated seed oil or vegetable/seed oil concentrate. **DO NOT** use fertilizers in a tank mix without a nonionic surfactant, methylated seed oil or vegetable/seed oil concentrate.

#### Weeds Controlled

When used at the rates listed in the APPLICATION INSTRUCTIONS section, this product provides preemergence or postemergence control with residual control (control of newly germinating seedlings) of the following target vegetation species. In general, preemergence and postemergence applications of this product control annual weeds while postemergence applications control established biennials and perennials. Use this product only in accordance with the instructions on this label.

**Note Regarding Resistant Biotypes:** Naturally occurring biotypes of some of the weeds listed on this label (pigweed, kochia and Russian thistle for example) may not be effectively controlled by this and/or other herbicides with the ALS/AHAS enzyme inhibiting mode of action (such as OUST). To ensure control if naturally occurring ALS/AHAS resistant biotypes are present in an area, tank mix or apply this product sequentially with an appropriate registered herbicide having a different mode of action.

## WEEDS CONTROLLED<sup>1</sup>

GRASSES				
Name (Species)	Growth Habit <sup>2</sup>	Name (Species)	Growth Habit <sup>2</sup>	
Annual bluegrass ( <i>Poa annua</i> )	A	Kyllinga ( <i>Cyperus brevifolius</i> )	A	
Annual ryegrass ( <i>Lolium multiflorum</i> )	A	Lovegrass ( <i>Eragrostis</i> spp.)	A/P	
Annual sweet vernalgrass ( <i>Anthoxanthum odoratum</i> )	A	Maidencane ( <i>Arundinaria amabilis</i> )	P	
Bahiagrass <sup>7</sup> ( <i>Paspalum notatum</i> )	P	Orchardgrass ( <i>Dactylis glomerata</i> )	P	
Barnyardgrass ( <i>Echinochloa crusgalli</i> )	A	Paragrass ( <i>Brachiaria mutica</i> )	P	
Beardgrass ( <i>Andropogon</i> spp.)	P	Peppergrass ( <i>Lepidium virginicum</i> )	A	
Bermudagrass <sup>7,8,9</sup> ( <i>Cynodon dactylon</i> )	P	Phragmites ( <i>Phragmites australis</i> )	P	
Big bluestem <sup>7</sup> ( <i>Andropogon gerardii</i> )	P	Prairie cordgrass ( <i>Spartina pectinata</i> )	P	
Broadleaf signalgrass ( <i>Brachiaria platyphylla</i> )	A	Prairie threeawn ( <i>Aristida oligantha</i> )	P	
Canada bluegrass ( <i>Poa Compressa</i> )	P	Quackgrass ( <i>Agropyron repens</i> )	P	
Cattail ( <i>Typha</i> spp.)	P	Rattail fescue ( <i>Vulpia myuros</i> )	A	
Cheat ( <i>Bromus secalinus</i> )	A	Reed canarygrass ( <i>Phalaris arundinacea</i> )	P	
Cogongrass ( <i>Imperata cylindrical</i> )	P	Ricegrass ( <i>Oryzopsis hymenoides</i> )	A	
Crabgrass ( <i>Digitaria</i> spp.)	A	Saltgrass <sup>7,8,9</sup> ( <i>Distichlis stricta</i> )	P	
Dallisgrass <sup>7</sup> ( <i>Paspalum dilatatum</i> )	P	Sand dropseed <sup>7</sup> ( <i>Sporobolus cryptandrus</i> )	P	
Downy brome ( <i>Bromus tectorum</i> )	A	Sandbur ( <i>Cenchrus</i> spp.)	A	
Fall panicum ( <i>Panicum dichotomiflorum</i> )	A	Smooth brome ( <i>Bromus inermis</i> )	P	
Feathertop ( <i>Pennisetum villosum</i> )	P	Sprangletop <sup>6,7</sup> ( <i>Leptochloa</i> spp.)	A	
Fescue ( <i>Festuca</i> spp.)	A/P	Timothy ( <i>Phleum pretense</i> )	P	
Foxtail ( <i>Setaria</i> spp.)	A	Torpedograss ( <i>Panicum repens</i> )	P	
Goosegrass ( <i>Eleusine indica</i> )	A	Vaseygrass ( <i>Paspalum urvillei</i> )	P	
Guineagrass ( <i>Panicum maximum</i> )	P	Velvetgrass ( <i>Holcus lanatus</i> )	A	
Italian ryegrass ( <i>Lolium multiflorum</i> )	A	Wild barley ( <i>Hordeum</i> spp.)	A	
Johnsongrass ( <i>Sorghum halepense</i> )	P	Wild oats ( <i>Avena fatua</i> )	A	
Kentucky bluegrass ( <i>Poa pratensis</i> )	P	Wirestem muhly ( <i>Muhlenbergia frondosa</i> )	P	
		Witchgrass ( <i>Panicum capillare</i> )	A	

BROADLEAF WEEDS				
Name (Species)	Growth Habit <sup>2</sup>	Name (Species)	Growth Habit <sup>2</sup>	
Arrowwood ( <i>Pluchea sericea</i> )	A	Nettleleaf goosefoot ( <i>Chenopodium murale</i> )	A	
Ageratum ( <i>Asteraceae houstonianum</i> )	P	Oxeye daisy ( <i>Chrysanthemum leucanthemum</i> )	P	
Broom snakeweed <sup>3</sup> ( <i>Gutierrezia sarothrae</i> )	P	Pennycress ( <i>Thlaspi</i> spp.)	A	
Bull thistle ( <i>Cirsium vulgare</i> )	B	Pepperweed ( <i>Lepidium</i> spp.)	A	
Burdock ( <i>Arctium</i> spp.)	B	Pigweed <sup>6</sup> ( <i>Amaranthus</i> spp.)	A	
Canada thistle <sup>7</sup> ( <i>Cirsium arvense</i> )	P	Pineapple weed ( <i>Matricaria matricarioides</i> )	P	
Carolina geranium ( <i>Geranium carolinianum</i> )	A	Plantain ( <i>Plantago</i> spp.)	P	
Carpetweed ( <i>Mollugo verticillata</i> )	A	Pokeweed ( <i>Phytolacca Americana</i> )	P	
Clover ( <i>Trifolium</i> spp.)	A/P	Prickly sida ( <i>Sida spinosa</i> )	A	
Cocklebur ( <i>Xanthium strumarium</i> )	A	Primrose ( <i>Oenothera kunthiana</i> )	P	
Common chickweed ( <i>Stellaria media</i> )	A	Puncturevine ( <i>Tribulus terrestris</i> )	A	
Common ragweed ( <i>Ambrosia artemisiifolia</i> )	A	Purple loosestrife <sup>3</sup> ( <i>Lythrum salicaria</i> )	P	
Corn spurry ( <i>Spergula arvensis</i> )	P	Purslane ( <i>Portulaca</i> spp.)	A	
Dandelion ( <i>Taraxacum officinale</i> )	P	Ragweed ( <i>Ambrosia</i> spp.)	A	
Dayflower ( <i>Commelina</i> spp.)	A/P	Rush skeletonweed <sup>3</sup> ( <i>Chondrilla juncea</i> )	B	
Desert Camelthorn ( <i>Alhagi pseudalhagi</i> )	P	Russian knapweed ( <i>Centaurea repens</i> )	P	
Diffuse knapweed ( <i>Centaurea diffusa</i> )	A	Russian thistle <sup>3</sup> ( <i>Salsola kali</i> )	A	
Dock ( <i>Rumex</i> spp.)	P	Saltbush ( <i>Atriplex</i> spp.)	A	
Dogfennel ( <i>Eupatorium capillifolium</i> )	A	Sesbania ( <i>Sesbania</i> spp.)	A	
Filaree ( <i>Erodium</i> spp.)	A	Sicklepod ( <i>Cassia obtusifolia</i> )	A	
Fleabane ( <i>Erigeron</i> spp.)	A	Silverleaf nightshade ( <i>Solanum elaeagnifolium</i> )	P	
Giant ragweed <sup>7</sup> ( <i>Ambrosia trifida</i> )	A	Shepherd's-purse ( <i>Capsella bursa-pastoris</i> )	A	
Goldenrod ( <i>Solidago</i> spp.)	P	Smartweed ( <i>Polygonum</i> spp.)	A/P	
Grey rabbitbrush ( <i>Chrysothamnus nauseosus</i> )	P	Sorrell ( <i>Rumex</i> spp.)	P	
Gromwell ( <i>Lithospermum</i> spp.)	A	Sowthistle ( <i>Sonchus</i> spp.)	A	
Groundcherry ( <i>Physalis</i> spp.)	A/P	Speedwell ( <i>Veronica</i> spp.)	A	
Hawksbeard ( <i>Crepis</i> spp.)	A	Stinging nettle <sup>3</sup> ( <i>Urtica dioica</i> )	P	
Hoary vervain ( <i>Verbena stricta</i> )	P	Sunflower ( <i>Helianthus</i> spp.)	A	
Horsenettle ( <i>Solanum Canadensis</i> )	P	Sweet clover ( <i>Melilotus</i> spp.)	A/B	
Horseweed ( <i>Conyza Canadensis</i> )	A	Tansymustard ( <i>Descurainia pinnata</i> )	A	
Indian mustard ( <i>Brassica juncea</i> )	A	Texas thistle ( <i>Cirsium texanum</i> )	P	
Japanese bamboo ( <i>Polygonum cuspidatum</i> )	P	Velvetleaf ( <i>Abutilon theophrasti</i> )	A	
Knawel ( <i>Scleranthus annuus</i> )	A	Western ragweed ( <i>Ambrosia psilostachya</i> )	P	

continued

continued

<b>BROADLEAF WEEDS</b>			
Name (Species)	Growth Habit <sup>2</sup>	Name (Species)	Growth Habit <sup>2</sup>
Kochia <sup>3</sup> ( <i>Kochia scoparia</i> )	A	Wild buckwheat ( <i>Polygonum convolvulus</i> )	A
Lambsquarters ( <i>Chenopodium album</i> )	A	Wild carrot ( <i>Daucus carota</i> )	B
Lespedeza ( <i>Lespedeza</i> spp.)	P	Wild lettuce ( <i>Lactuca</i> spp.)	A/B
Little mallow ( <i>Malva parviflora</i> )	B	Wild parsnip ( <i>Pastinaca sativa</i> )	B
Marigold ( <i>Tagetes</i> spp.)	P	Wild radish ( <i>Raphanus raphanistrum</i> )	B
Milkweed ( <i>Asclepias</i> spp.)	P	Wild turnip ( <i>Brassica campestris</i> )	B
Miners lettuce ( <i>Montia perfoliata</i> )	A	Woolly leaf bursage ( <i>Franseria tomentosa</i> )	P
Morningglory ( <i>Ipomoea</i> spp.)	A/P	Yellow starthistle ( <i>Centaurea solstitialis</i> )	A
Mullein ( <i>Verbascum</i> spp.)	B	Yellow woodsorrel ( <i>Oxalis stricta</i> )	P

<b>VINES AND BRAMBLES</b>			
Name (Species)	Growth Habit <sup>2</sup>	Name (Species)	Growth Habit <sup>2</sup>
Blackberry <sup>4</sup> ( <i>Rubus</i> spp.)	P	Morningglory ( <i>Ipomoea</i> spp.)	A/P
Dewberry <sup>4</sup> ( <i>Rubus</i> spp.)	P	Poison Ivy ( <i>Rhus radicans</i> )	P
Field bindweed ( <i>Convolvulus arvensis</i> )	P	Redvine ( <i>Brunnichia cirrhosa</i> )	P
Greenbriar ( <i>Smilax</i> spp.)	P	Trumpet creeper <sup>7</sup> ( <i>Campsis radicans</i> )	P
Hedge bindweed ( <i>Calystegia sepium</i> )	A	Virginia creeper <sup>7</sup> ( <i>Parthenocissus quinquefolia</i> )	P
Honeysuckle ( <i>Lonicera</i> spp.)	P	Wild buckwheat ( <i>Polygonum convolvulus</i> )	P
Kudzu <sup>5</sup> ( <i>Pueraria lobata</i> )	P	Wild grape ( <i>Vitis</i> spp.)	P
		Wild rose ( <i>Rosa</i> spp.)	P

<b>BRUSH</b>			
This product controls over 30 species of brush.			
Name (Species)	Growth Habit <sup>2</sup>	Name (Species)	Growth Habit <sup>2</sup>
Alder ( <i>Alnus</i> spp.)	P	Mulberry ( <i>Morus</i> spp.)	P
American beech ( <i>Fagus grandifolia</i> )	P	Oak ( <i>Quercus</i> spp.)	P
Ash ( <i>Fraxinus</i> spp.)	P	Permission ( <i>Diospyros virginiana</i> )	P
Bald cypress ( <i>Taxodium distichum</i> )	P	Pine <sup>10</sup> ( <i>Pinus</i> spp.)	P
Bigleaf maple ( <i>Acer macrophyllum</i> )	P	Poplar ( <i>Populus</i> spp.)	P
Black locust <sup>10</sup> ( <i>Robinia pseudoacacia</i> )	P	Privet ( <i>Ligustrum vulgare</i> )	P
Black gum ( <i>Nyssa sylvatica</i> )	P	Red alder ( <i>Alnus rubra</i> )	P
Boxelder ( <i>Acer negundo</i> )	P	Red maple ( <i>Acer rubrum</i> )	P
Cherry ( <i>Prunus</i> spp.)	P	Russian olive ( <i>Elaeagnus angustifolia</i> )	P
Chinaberry ( <i>Melia azedarach</i> )	P	Sassafras ( <i>Sassafras albidum</i> )	P
Dogwood ( <i>Cornus</i> spp.)	P	Sourwood ( <i>Oxydendrum arboreum</i> )	P
Elm <sup>11</sup> ( <i>Ulmus</i> spp.)	P	Sweetgum ( <i>Liquidambar styraciflua</i> )	P
Hawthorn ( <i>Crataegus</i> spp.)	P	Water Willow ( <i>Justicia americana</i> )	P
Hickory ( <i>Carya</i> spp.)	P	Willow ( <i>Salix</i> spp.)	P
Honeylocust <sup>10</sup> ( <i>Gleditsia triacanthos</i> )	P	Yellow poplar ( <i>Liriodendron tulipifera</i> )	P
Maple ( <i>Acer</i> spp.)	P		P

<sup>1</sup> Where heavy or well-established infestations occur, use the higher specified rates.

<sup>2</sup> Growth Habit: A= Annual, B= Biennial, P= Perennial

<sup>3</sup> Early postemergence applications are required for best results.

<sup>4</sup> The degree of control is species dependent; some *Rubus* species may not be completely controlled.

<sup>5</sup> Use a minimum of 75 GPA; repeat applications may be required to control established stands.

<sup>6</sup> Control is species dependent; for preemergence control a tank-mix with Pendulum herbicide and/or a postemergence application of a labeled herbicide may be required.

<sup>7</sup> A minimum of 13 pounds of this product per acre is required.

<sup>8</sup> Tank-mix with Oust®, Spyder® or Spyder® Extra for best results.

<sup>10</sup> Tank mix with glyphosate or triclopyr.

<sup>11</sup> Tank mix with glyphosate.

### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a cool, dry area in original container.

**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. Completely empty bag into application equipment, then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

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