

For the control of undesirable vegetation in grass pasture, rangeland and industrial noncropland areas including railroad, utility plant sites, petroleum tank farms, pumping installations, storage areas; utility, pipeline, and highway rights-of-way; fence rows; nonirrigation ditchbanks; and for the establishment and maintenance of wildlife openings

Active Ingredient:

EPA Reg. No. 241-431 EPA Est. No.	
*Equivalent to 21.8% 2-[4,5-dihydro-4-methyl-4-(1-methylethyl)-5-oxo-1 <i>H</i> -imidazol-2-yl]-3-pyridinecarboxylic acid or 2 pounds acid per gallo	n.
Total:	%
Other Ingredients:	%
(1-methylethyl)-5-oxo-1 <i>H</i> -imidazol-2-yl]-3-pyridinecarboxylic acid)*	%
isopropylamine salt of imazapyr (2-[4,5-dihydro-4-methyl-4-	

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (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).

Net Contents:



 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 by a poison control center or doctor. DO NOT give anything to an unconscious person.
 Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes; then continue rinsing eyes. Call a poison control center or doctor for treatment advice.
 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.
 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.
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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 BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Harmful if swallowed, causes moderate eye irritation. Avoid contact with eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Personal Protective Equipment (PPE)

Some materials that are chemical 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 for all mixers and loaders, plus applicators using handheld equipment

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.

PHYSICAL AND CHEMICAL HAZARDS

Spray solutions of **Arsenal® PowerLine™ herbicide** should be mixed, stored and applied only in stainless steel, fiberglass, plastic and plastic-lined steel containers.

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

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.

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.

Arsenal® PowerLine™ herbicide may be used only in accordance with instructions on the leaflet label attached to the container. Keep containers closed to avoid spills and contamination.

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:

- Protective eyewear
- Coveralls
- Shoes plus socks
- Chemical-resistant gloves made of any waterproof material.

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.

Noncrop weed control is not within the scope of the Worker Protection Standard. See the **GENERAL INFORMATION** section of this label for a description of noncrop sites.

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 may be disposed of on-site or at an approved waste disposal facility.

CONTAINER DISPOSAL

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 ≤ 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.

Refillable Container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Triple rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

Triple rinse as follows: To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

When this container is empty, replace the cap and seal all openings that have been opened during use; return the container to the point of purchase or to a designated location. This container must only be refilled with a pesticide product. **DO NOT** reuse the container for any other purpose. Prior to refilling, inspect carefully for damage such as cracks, punctures, abrasions, worn-out threads and

closure devices. Check for leaks after refilling and before transport. **DO NOT** transport if this container is damaged or leaking. If the container is damaged, or leaking, or obsolete and not returned to the point of purchase or to a designated location, triple rinse emptied container and offer for recycling, if available, or dispose of container in compliance with state and local regulations.

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)

Steps to be taken in case material is released or spilled:

Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal. Remove contaminated clothing, and wash affected skin areas with soap and water. Wash clothing before reuse. Keep the spill out of all sewers and open bodies of water.

IMPORTANT

DO NOT use on food crops. Keep from contact with fertilizers, insecticides, fungicides and seeds. 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 lawns, walks, driveways, tennis courts, or similar areas where roots of desirable vegetation may extend and be exposed to potential injury and/or mortality from root uptake of Arsenal® PowerLine™ herbicide unless this risk is acceptable. DO NOT side trim desirable vegetation with this product unless severe injury or plant death can be tolerated. Prevent drift of spray to desirable plants.

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

GENERAL INFORMATION

Use Sites. Arsenal PowerLine is an aqueous solution to be mixed with water and a surfactant and applied as a spray solution to grass pasture and rangeland and industrial noncropland including utility plant sites, petroleum tank farms, pumping installations, storage areas; railroad, utility, and highway rights-of-way; fence rows; and nonirrigation ditchbanks including grazed or hayed areas within these sites. **Arsenal PowerLine** is recommended for the establishment and maintenance of wildlife openings.

Arsenal PowerLine may also be used for the release of unimproved Bermudagrass (see specific directions) and for use under certain paved surfaces (see specific directions).

Application Methods. Arsenal PowerLine will control most annual and perennial grasses and broadleaf weeds in addition to many brush and vine species. Arsenal PowerLine will provide residual control of labeled weeds that germinate in the treated areas. This product may be applied either preemergence or postemergence to the weeds; however, postemergence application is the

method of choice in most situations, particularly for perennial species. For maximum activity, weeds should be growing vigorously at the time of postemergence application, and the spray solution should include a surfactant (see **ADJUVANTS** section for specific recommendations). These solutions may be applied selectively using low-volume techniques or may be applied broadcast by using ground equipment or aerial equipment. In addition, **Arsenal PowerLine** may also be used for stump and cut stem treatments (see specific directions).

Herbicidal Activity. Arsenal PowerLine is readily absorbed through leaves, stems, and roots and is translocated rapidly throughout the plant, with accumulation in the meristematic regions. Treated plants stop growing soon after spray application. Chlorosis appears first in the newest leaves, and necrosis spreads from this point. In perennials, the herbicide is translocated into, and kills, underground storage organs which prevents regrowth. Chlorosis and tissue necrosis may not be apparent in some plant species until 2 weeks after application. Complete kill of plants may not occur for several weeks. Applications of Arsenal PowerLine are rainfast 1 hour after treatment.

PRECAUTIONS FOR AVOIDING INJURY TO NONTARGET PLANTS

Untreated trees can occasionally be affected by root uptake of **Arsenal PowerLine** through movement into the top soil. Injury or loss of desirable trees or other plants may result if **Arsenal PowerLine** 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.

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.

Wind Erosion

Avoid treating powdery, dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, the soil surface should first be settled by rainfall or irrigation.

ADJUVANTS

Postemergence applications of Arsenal® PowerLine™ herbicide require the addition of a spray adjuvant for optimum herbicide performance.

Nonionic Surfactants. Use a nonionic surfactant (NIS) at the rate 0.25% volume/volume (v/v) or higher (see manufacturer's label) of the spray solution (0.25% v/v is equivalent to 1 quart in 100 gallons). For best results, select a nonionic surfactant with an HLB (hydrophilic to lipophilic balance) ratio between 12 and 17 with 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 (MSO) or Vegetable Oil

Concentrates. Instead of a surfactant, a methylated seed oil or vegetable-based seed oil concentrate may be used at the rate of 1.5 to 2 pints per acre. 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 alternatively use a nonionic surfactant as described above. Research indicates that these oils may aid in Arsenal PowerLine deposition and uptake by plants under moisture or temperature stress.

Silicone-based Surfactants. See manufacturer's label for specific rate recommendations. Silicone-based surfactants may reduce the surface tension of the spray droplet allowing greater spreading on the leaf surface as compared to conventional nonionic surfactants. However, some silicone-based surfactants may dry too quickly, limiting herbicide uptake.

Fertilizer/Surfactant Blends. Nitrogen-based liquid fertilizers, such as 28%N, 32%N, 10-34-0 or ammonium sulfate, may be added at the rate of 2 to 3 pints per acre in combination with the recommended rate of nonionic surfactant, methylated seed oil or vegetable/seed oil concentrate. The use of fertilizers in a tank mix without a nonionic surfactant, methylated seed oil or vegetable/seed oil concentrate is not recommended.

APPLICATION METHODS

AERIAL APPLICATIONS

All precautions should be taken to minimize or eliminate spray drift. Fixed-wing aircraft and helicopters can be used to apply Arsenal PowerLine. However, DO NOT make applications by fixed-wing aircraft unless appropriate buffer zones can be maintained to prevent spray drift out of the target area or, when treating open tracts of land, spray drift as a result of fixed-wing aircraft application can be tolerated. Aerial equipment designed to minimize spray drift, such as a helicopter equipped with a Microfoil™ boom, Thru-Valve™ boom or raindrop nozzles, must be used and calibrated. Except when applying with a Microfoil boom, a drift control agent may be added at the recommended label rate. To avoid drift, applications should not be made during inversion conditions, when winds are gusty, or any other conditions which allow drift. Side trimming is not recommended with **Arsenal** PowerLine unless death of treated tree can be tolerated.

Uniformly apply the specified amount of **Arsenal PowerLine** in 2 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume to provide accurate and uniform distribution of spray particles over the treated area and to avoid spray drift. Include in the spray solution a nonionic surfactant or methylated seed oil or manufacturer's label rate of a silicone-based surfactant (see the **ADJUVANTS** section of this label for specific recommendations). A foam-reducing agent may be added at the recommended label rate, if needed.

IMPORTANT. Thoroughly clean application equipment, including landing gear, immediately after use of this product. Prolonged exposure of this product to uncoated steel (except stainless steel) surfaces may result in corrosion and failure of the exposed part. The maintenance of an organic coating (paint) may prevent corrosion.

GROUND APPLICATIONS

Broadcast. Use 5 or more gallons of water per acre. The actual minimum spray volume per acre is determined by the spray equipment used. Use adequate spray volume to provide accurate and uniform distribution of spray particles over the treated area and to avoid spray drift. To minimize spray drift, select proper nozzles to avoid spraying a fine mist. Use pressures less than 50 psi, and **DO NOT** spray under gusty or windy conditions. Add a foam-reducing agent, if needed, and a spray pattern indicator, if desired, at the recommended label rates. Clean application equipment after using this product by thoroughly flushing with water.

When making applications to rights-of-way corridors where desirable tree roots may extend, use 1 to 3 pints of **Arsenal PowerLine** per acre in combination with recommended tank mixes. Use rates higher than 3 pints per acre in these situations may cause injury or death of desirable trees when their roots extend into treated zones.

FOLIAR

Side Trimming

DO NOT side trim with **Arsenal® PowerLine™ herbicide** unless severe injury or death of the treated tree can be tolerated. **Arsenal PowerLine** is readily translocated and can result in death of the entire tree.

Low-volume Foliar

Use equipment calibrated to deliver 5 to 20 gallons of spray solution per acre. To prepare the spray solution, thoroughly mix in water 0.5% to 5% **Arsenal PowerLine** plus surfactant (see the **ADJUVANTS** section of this label for specific recommendations). A foam-reducing agent may be applied at the recommended label rate, if needed. For control of difficult brush species (see **WEEDS CONTROLLED** section for relative susceptibility of weed species), use the higher concentrations of herbicide and/or spray volumes, but **DO NOT** apply more than 6 pints of **Arsenal PowerLine** per acre. Excessive wetting of foliage is not recommended. See the following mixing guide for some suggested volumes of **Arsenal PowerLine** and water.

TANK MIXES AND APPLICATION RATES*

Target Vegetation	Rate of Arsenal [®] PowerLine [™] herbicide	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® at 2 to 3% by volume plus surfactant
Mixed hardwoods with locust and pine, but no elm	0.5 to 1.0% by volume	Krenite® at 2 to 5% by volume plus surfactant
Mixed hardwoods with locust and elm, but no pine	0.5 to 1.0% by volume	Escort® at 2 ozs/acre or 2.3 grams/gallon plus surfactant

^{*}Tank mixes with 2,4-D or products containing 2,4-D have resulted in reduced efficacy of **Arsenal PowerLine**.

MIXING CHART		
% Solution	Arsenal PowerLine per Gallon of Mix (fl ozs)	Arsenal PowerLine per 4-gallon Backpack (fl ozs)
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 fluid ounces	=	1 gallon	
16 fluid ounces	=	1 pint	
8 pints	=	1 gallon	
4 quarts	=	1 gallon	
2 pints	=	1 quart	

Application Instructions. For low volume, select proper nozzles so that herbicide is not overapplied. Best results are achieved when the spray covers the crown and approximately 70% of the plant. The use of an even flatfan 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 roll-over 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 penetrating approximately 70% of the plant.

For brush 4-feet to 8-feet tall, swipe the sides of target vegetation by directing spray to at least 2 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 2 sides of the target in smooth zigzag motions from crown to bottom.

Low Volume with Hydraulic Handgun Application Equipment. Use same technique as described for Low Volume with Backpacks.

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 that contacts the understory may result in severe injury or death of plants in the understory.

Amount of Spray	Desired Concentration (fluid volume)				
Solution Prepared	0.5%	0.75%	1%	1.5%	5%
(gallons)	(amount of Arsenal® PowerLine™ herbicide to use)				
1	0.6 fl oz	0.9 fl oz	1.3 fl ozs	1.9 fl ozs	6.5 fl ozs
3	1.9 fl ozs	2.8 fl ozs	3.8 fl ozs	5.8 fl ozs	1.2 pints
4	2.5 fl ozs	3.8 fl ozs	5.1 fl ozs	7.7 fl ozs	1.6 pints
5	3.2 fl ozs	4.8 fl ozs	6.5 fl ozs	9.6 fl ozs	2 pints
50	2 pints	3 pints	4 pints	6 pints	10 quarts
100	4 pints	6 pints	8 pints	6 quarts	5 gallons

High-volume Foliar

For optimum performance when spraying medium-density to high-density brush, use equipment calibrated to deliver up to 100 gallons of spray solution per acre (GPA). Spray solutions exceeding 100 GPA may result in excessive spray runoff causing increased ground cover injury and injury to desirable species.

To prepare the spray solution, thoroughly mix **Arsenal PowerLine** at a rate of 2 to 6 pints per acre (see **GROUND APPLICATIONS** section) in water and add a surfactant (see **ADJUVANTS** section for specific recommendations and rates of surfactants). A foam-reducing agent may be added at the recommended label rate, if needed. For control of difficult species (see **WEEDS CONTROLLED** section for relative susceptibility of weed species), use the higher concentrations of herbicide and/or spray volumes, but **DO NOT** apply more than 6 pints of **Arsenal PowerLine** per acre. Uniformly cover the foliage of the vegetation to be controlled, but **DO NOT** apply to runoff. Excessive wetting of foliage is not recommended.

Tank Mixes for Brush Control

Arsenal PowerLine may be tank mixed with Accord®, Banvel®, Escort®, Garlon® 3A, Krenite®, Roundup®, Telar®, Tordon® K, and Vanquish® to provide control of Arsenal PowerLine-tolerant species.

Consult manufacturer's labels for specific rates and weeds controlled. Always follow the more restrictive label when making an application involving tank mixes. Tank mixing with 2,4-D, or products which contain 2,4-D, has resulted in reduced performance of **Arsenal PowerLine**.

Invert Emulsions. Arsenal PowerLine can be applied as an invert emulsion. The spray solution results in an invert (water-in-oil) spray emulsion designed to minimize spray drift and spray runoff resulting in more herbicide on the target foliage. The spray emulsion may be formed in a single tank (batch mixing) or injected (in-line mixing). Consult the invert chemical label for proper mixing directions.

CUT SURFACE

Cut Stubble

Arsenal® PowerLine™ herbicide can be applied within 2 weeks after mechanical mowing or cutting of brush. To suppress or control resprouting, uniformly apply a spray solution of Arsenal PowerLine at the rate of 1 to 2 pints per acre to the cut area. Arsenal PowerLine may be tank mixed with Tordon® K or picloram to aid in control or suppression of brush. The addition of 5% (v/v) or more of a penetrating agent can aid in uptake through the bark or exposed roots.

Cut stubble applications are made to the soil and cut brush stumps. This type of application may increase ground cover injury. However, vegetation will recover. Making applications of **Arsenal PowerLine** directly to the soil can increase potential root uptake causing injury or death of desirable trees.

Efficacy can be increased, and root uptake by desirable vegetation can be decreased, if the brush is allowed to regrow and the foliage is treated. See the **APPLICATION METHODS** section of this label.

Stump and Cut-stem Treatments

Arsenal PowerLine may be used to control undesirable woody vegetation on noncropland by applying the Arsenal PowerLine solution to the cambium area of freshly cut stump surfaces or to fresh 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. DO NOT overapply solution causing runoff or puddling.

Mixing. Arsenal PowerLine 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.

To prepare a dilute solution, mix 8 to 12 fluid ounces of **Arsenal PowerLine** with 1 gallon of water. If temperatures are such that freezing of the spray mixture may occur, antifreeze (ethylene glycol) may be used according to manufacturer's label to prevent freezing. The use of a surfactant or penetrating agent may improve uptake through partially callused cambiums. To prepare a concentrated solution, mix 2 quarts of **Arsenal PowerLine** with no more than 1 quart of water.

Application with Dilute Solutions

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 1-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 2-inch intervals between cut edges. Spray or brush the solution into each cut until thoroughly wet.

Application with Concentrated Solutions

For tree injection treatments. Using standard injection equipment, apply 1 milliliter of solution at each injection site. Make at least 1 injection cut for every 3 inches of Diameter at Breast Height (DBH) on the target tree. For example, a 3-inch DBH tree will receive 1 injection cut, and a 6-inch DBH tree will receive 2 injection cuts. On trees requiring more than 1 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 1 cut for every 3 inches of DBH on the target tree. For example, a 3-inch DBH tree will receive 1 cut, and a 6-inch DBH tree will receive 2 cuts. Spray or brush the solution into each cut until thoroughly wet.

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

FOR CONTROL OF UNDESIRABLE WEEDS UNDER PAVED SURFACES

Arsenal PowerLine 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.

Arsenal PowerLine should be used 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, they should be removed by scalping with a grader blade to a depth sufficient to insure their complete removal.

IMPORTANT. Paving should follow **Arsenal PowerLine** applications as soon as possible. **DO NOT** apply where the chemical may contact the roots of desirable trees or other plants.

The product may not be used under pavement on residential properties such as driveways or parking lots, nor 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 they may extend into the treated area. Roots of trees and shrubs may extend a considerable distance beyond the branch extremities or drip line.

APPLICATION DIRECTIONS FOR USE UNDER PAVED SURFACES

Applications should be made to the soil surface only when final grade is established. **DO NOT** move soil following **Arsenal® PowerLine™ herbicide** application.

Apply **Arsenal PowerLine** in sufficient water (at least 100 gallons per acre) to ensure thorough and uniform wetting of the soil surface, including the shoulder areas. Add **Arsenal PowerLine** at a rate of 6 pints per acre (2.2 fl ozs 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 **Arsenal PowerLine** is needed for herbicide activation. **Arsenal PowerLine** can be incorporated 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.

FOR CONTROL OF UNDESIRABLE WEEDS IN UNIMPROVED BERMUDAGRASS AND BAHIAGRASS

Arsenal PowerLine may be used on unimproved Bermudagrass and Bahiagrass turf on roadsides, utility rights-of-way and other noncropland industrial sites. The application of Arsenal PowerLine 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 Arsenal PowerLine 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 with a spray pressure 20 to 50 psi.

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 fl 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 **Arsenal PowerLine** at 6 fl ozs to 12 fl ozs per acre when the Bermudagrass is dormant. Apply **Arsenal PowerLine** at 6 fl ozs to 8 fl 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 preceding **IMPORTANT** statements).

For additional preemergence control of annual grasses and small-seeded broadleaf weeds, add **Pendulum® herbicide** at the rate of 3.3 lbs to 6.6 lbs per acre. Consult the **Pendulum** label for weeds controlled and for other use directions and precautions.

For control of Johnsongrass in Bermudagrass turf, apply **Arsenal PowerLine** at 8 fl ozs per acre plus **Roundup® herbicide** at 12 fl 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 **Arsenal PowerLine** at 4 fl ozs to 8 fl ozs per acre when the Bahiagrass is dormant or after the grass has initiated green-up but has not exceeded 25% green-up. Include in the spray solution a surfactant (see **ADJU-VANTS** section for specific recommendations on surfactants).

Weeds Controlled

Bedstraw Gallium 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 White clover Trifolium repens Daucus carota Wild carrot Yellow woodsorrel Oxalis stricta

GRASS GROWTH AND SEED-HEAD SUPPRESSION

Arsenal PowerLine may be used to suppress growth and seed-head development of certain turfgrass in unimproved areas. When applied to desirable turf, Arsenal PowerLine 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 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 **Arsenal PowerLine** at 6 ozs 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 **Arsenal PowerLine** at 2 fl ozs per acre plus 0.25% nonionic surfactant. For increased suppression, **Arsenal PowerLine** 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 **Arsenal® PowerLine™ herbicide**.

TOTAL VEGETATION CONTROL WHERE BARE GROUND IS DESIRED

Arsenal PowerLine is an effective herbicide for preemergence or postemergence control of many annual and perennial broadleaf and grass weeds where bare ground is desired. Arsenal PowerLine is particularly effective on hard-to-control perennial grasses. Arsenal PowerLine at 1.5 pints to 6 pints per acre can be used alone or in tank mix with herbicides such as Banvel®, Finale®, Karmex®, Oust®, Pendulum®, Roundup®, simazine, or Vanquish®. The degree and duration of control are dependent on the rate of Arsenal PowerLine used, tank mix partner, the volume of carrier, soil texture, rainfall and other conditions.

Consult manufacturers labels for specific rates and weeds controlled. Always follow the more restrictive label when making an application involving tank mixes.

TANK MIX INSTRUCTIONS FOR BARE GROUND

Herbicide Rates per Acre*

Arsenal PowerLine	Pendulum [®] WDG herbicide	Pendulum® 3.3 EC herbicide	Diuron
Rate in pints	in lbs	in quarts	in lbs ai
1.5 to 3	6.6	4.8	4 to 6
2 to 4	6.6	4.8	6 to 10
3 to 6	6.6	4.8	8 to 12

^{*}Use higher rates for fall applications and in areas that have not been previously treated or that feature heavy infestations.

Applications of **Arsenal PowerLine** may be made at 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, Arsenal PowerLine may be tank mixed with products such as Finale or Roundup. Tank mixes with 2,4-D or products containing 2,4-D have reduced performance of Arsenal PowerLine. Always follow the more restrictive label when tank mixing.

SPOT TREATMENTS

Arsenal PowerLine 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% **Arsenal PowerLine** plus an adjuvant. For increased burndown,

include **Finale** or **Roundup**, or similar products. For added residual weed control or to increase the weed spectrum, add **Pendulum** or diuron. Always follow the more restrictive label when tank mixing.

FOR SPOT TREATMENT WEED CONTROL IN GRASS PASTURE AND RANGELAND

For the control of undesirable vegetation in grass pasture and rangeland, **Arsenal PowerLine** may be applied as a spot treatment at a rate of 2 fl ozs to 48 fl ozs 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 fl ozs per acre per year.

GRAZING AND HAYING RESTRICTIONS

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

INSTRUCTIONS FOR RANGELAND USE

Arsenal PowerLine may be applied to rangeland for the control of undesirable vegetation to achieve 1 or more of the following vegetation management objectives:

- 1. To control undesirable (nonnative, invasive and noxious) plant species
- 2. To control undesirable vegetation to aid in the establishment of desirable rangeland plant species
- 3. To control undesirable vegetation to aid in the establishment of desirable rangeland vegetation following a fire
- 4. To control undesirable vegetation to reduce wildfire fuel
- To release existing desirable rangeland plant communities from the competitive pressure of undesirable plant species
- To control undesirable vegetation to improve wildlife habitat

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

- 1. 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.
- 3. 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.

Arsenal PowerLine 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 Arsenal® PowerLine™ herbicide at the specified pasture and rangeland rate. Following 12 months after an Arsenal PowerLine 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 **Arsenal PowerLine** 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.

WEEDS CONTROLLED BY ARSENAL POWERLINE

Arsenal PowerLine will provide preemergence or postemergence control with residual control of the following target vegetation species at the rates listed. Residual control refers to control of newly germinating seedlings in both annuals and perennials. In general, annual weeds may be controlled by preemergence or postemergence applications of **Arsenal PowerLine**.

For established biennials and perennials, postemergence applications of Arsenal PowerLine are recommended. The rates shown below pertain to broadcast applications and indicate the relative sensitivity of these weeds. The relative sensitivity should be referenced when preparing low-volume spray solutions (see Low-volume Foliar section of GROUND APPLICATIONS); low-volume applications may provide control of the target species with less Arsenal PowerLine per acre than is shown for the broadcast treatments. Arsenal PowerLine may be used only in accordance with the instructions on this label.

RESISTANT BIOTYPES

Naturally occurring biotypes (a plant within a given species that has a slightly different but distinct genetic makeup from other plants of the same species) of some weeds listed on this label may not be effectively controlled by this and/or other herbicides (**Oust**[®]) with the ALS/AHAS enzyme-inhibiting mode of action. If naturally occurring ALS/AHAS-resistant biotypes are present in an area, **Arsenal PowerLine** should be tank mixed or applied sequentially with an appropriate registered herbicide having a different mode of action to ensure control.

GRASSES

Common Name	Species	Growth Habit ²
	Apply 2 to 3 pints per acre ¹	
Annual bluegrass	(Poa annua)	А
Broadleaf signalgrass	(Brachiaria platyphylla)	A
Canada bluegrass	(Poa compressa)	Р
Downy brome	(Bromus tectorum)	A
Fescue	(Festuca spp.)	A/P
Foxtail	(Setaria spp.)	A
Italian ryegrass	(Lolium multiflorum)	A
Johnsongrass	(Sorghum halepense)	Р
Kentucky bluegrass	(Poa pratensis)	Р
Lovegrass	(Eragrostis spp.)	A/P
Orchardgrass	(Dactylis glomerata)	Р
Paragrass	(Brachiaria mutica)	Р
Quackgrass	(Agropyron repens)	Р
Sandbur	(Cenchrus spp.)	A
Sand dropseed	(Sporobulus cryptandrus)	А
Smooth brome	(Bromus inermis)	Р
Vaseygrass	(Paspalum urvillei)	Р
Wild oats	(Avena fatua)	A
Witchgrass	(Panicum capillare)	А
	Apply 2 to 4 pints per serel	
Barnyardgrass ³	Apply 3 to 4 pints per acre ¹ (Echinochloa crus-gali)	Α
Beardgrass	(Andropogon spp.)	P
Bluegrass, annual ³	(Poa annua)	A
Cheat	(Bromus secalinus)	A
Crabgrass	(Digitaria spp.)	A
Crowfootgrass ³	(Dactyloctenium aegyptium)	A
Fall panicum	(Panicum dichotomiflorum)	A
Giant reed	(Arundo donax)	P
Goosegrass	(Eleusine indica)	A
Itchgrass ³	(Rottboellia exaltata)	A
Junglerice ³	(Echinochloa colonum)	A
Lovegrass ³	(Eragrostis spp.)	A
Maidencane	(Panicum hemitomon)	A
Panicum, browntop ³	(Panicum fasciculatum)	A
Panicum, Texas ³	(Panicum texanum)	A
Prairie threeawn	(Aristida oligantha)	P
Reed canarygrass	(Phalaris arundinacea)	P
Sandbur, field ³	(Cenchrus incertus)	A
Signalgrass ³	(Brachiaria spp.)	A
	(Diaciliana Spp.)	
	(Panicum renens)	D
Torpedograss Wild barley	(Panicum repens) (Hordeum spp.)	P A

GRASSES (continued)

Common Name	Species	Growth Habit ²
	Apply 4 to 6 pints per acre ¹	
Bahiagrass	(Paspalum notatum)	Р
Bermudagrass ⁴	(Cynodon dactylon)	Р
Big bluestem	(Andropogon gerardii)	Р
Cattail	(Typha spp.)	Р
Cogongrass	(Imperata cylindrica)	Р
Dallisgrass	(Paspalum dilatatum)	Р
Feathertop	(Pennisetum villosum)	Р
Guineagrass	(Panicum maximum)	Р
Phragmites	(Phragmites australis)	Р
Prairie cordgrass	(Spartina pectinata)	Р
Saltgrass ⁴	(Distichlis stricta)	Р
Sand dropseed	(Sporobolus cryptandrus)	Р
Sprangletop ³	(Leptochloa spp.)	A
Timothy	(Phleum pratense)	Р
Wirestem muhly	(Muhlenbergia frondosa)	Р
	BROADLEAF WEEDS	
	Apply 2 to 3 pints per acre ¹	
African rue	(Peganum harmala)	Р
Alligatorweed	(Alternanthera philoxeroides)	A/P
Burdock	(Arctium spp.)	В
Carolina geranium	(Geranium carolinianum)	А
Carpetweed	(Mollugo verticillata)	А
Clover	(Trifolium spp.)	A/P
Common chickweed	(Stellaria media)	А
Common ragweed	(Ambrosia artemisiifolia)	Α
Dandelion	(Taraxacum officinale)	Р
Dogfennel	(Eupatorium capillifolium)	A
Filaree	(Erodium spp.)	A
Fleabane	(Erigeron spp.)	A
Hoary vervain	(Verbena stricta)	P
Indian mustard	(Brassica juncea)	A
Kochia ⁵	(Kochia scoparia)	A
Lambsquarters	(Chenopodium album)	A
Lespedeza	(Lespedeza spp.)	P
Miners lettuce	(Montia perfoliata)	A
Mullein	(Verbascum spp.)	В
Nettleleaf goosefoot	(Chenopodium murale)	A
Oxeye daisy	(Chrysanthemum leucanthemum)	P
Pepperweed	(Lepidium spp.)	A
Pigweed	(Amaranthus spp.)	A
Puncturevine	(Tribulus terrestris)	Α
Russian thistle	(Salsola kali)	Α
Smartweed	(Polygonum spp.)	Α
Sorrell	(Rumex spp.)	Р
Sunflower	(Helianthus spp.)	Α
Sweet clover	(Melilotus spp.)	А
Tansymustard	(Ambrosia psilostachya)	Р
Wild carrot	(Daucus carota)	В
Wild lettuce	(Lactuca spp.)	A/B
Wild parsnip	(Pastinaca sativa)	В
	4.4	

BROADLEAF WEEDS (continued)

Common Name	Species	Growth Habit ²
	Apply 2 to 3 pints per acre ¹ (continued)	
Wild turnip	(Brassica campestris)	В
Woollyleaf bursage	(Franseria tomentosa)	Р
Yellow woodsorrel	(Oxalis stricta)	Р
	Apply 3 to 4 pints per acre ¹	
Broom snakeweed ⁶	(Gutierrezia sarothrae)	Р
Bull thistle	(Cirsium vulgare)	В
Burclover ³	(Medicago spp.)	Α
Chickweed, mouseear ⁵	(Cerastium vulgatum)	А
Clover, hop ³	(Trifolium procumbens)	A
Cocklebur	(Xanthium strumarium)	А
Cudweed ³	(Gnaphalium spp.)	A
Desert camelthorn	(Alhagi pseudalhagi)	Р
Diffuse knapweed	(Centaurea diffusa)	A
Dock	(Rumex spp.)	Р
Fiddleneck ³	(Amsinckia intermedia)	A
Goldenrod	(Solidago spp.)	P
Henbit ³	(Lamium aplexicaule)	A
Knotweed, prostrate ³	(Polygonum aviculare)	A/P
Pokeweed	(Phytolacca americana)	Р
Purple loosestrife ⁶	(Lythrum salicaria)	P
Purslane	(Portulaca spp.)	A
Pusley, Florida ³	(Richardia scabra)	Α
Rocket, London ³	(Sisymbrium irio)	A
Rush skeletonweed ⁶	(Chondrilla juncea)	В
Saltbush	(Atriplex spp.)	A
Shepherdspurse ³	(Capsella bursa-pastoris)	A
Spurge, annual ³	(Euphorbia spp.)	А
Stinging nettle ⁶	(Urtica dioica)	Р
Velvetleaf ³	(Abutilon theophrasti)	А
Yellow starthistle	(Centaurea solstitialis)	А
	Apply 4 to 6 pints per acre ¹	
Arrowwood	(Pluchea sericea)	Α
Canada thistle	(Cirsium arvense)	Р
Giant ragweed	(Ambrosia trifida)	А
Grey rabbitbrush	(Chrysothamnus nauseosus)	Р
Japanese bamboo/knotweed	(Polygonum cuspidatum)	Р
Little mallow	(Malva parviflora)	В
Milkweed	(Asclepias spp.)	Р
Primrose Pussion knapwood	(Oenothera kunthiana)	P P
Russian knapweed	(Centaurea repens)	P P
Sago pondweed Silverleaf nightshade	(Potamogeton pectinatus) (Solanum elaeagnifolium)	P P
Sowthistle	(Sonchus spp.)	A
Texas thistle	(Cirsium texanum)	P

VINES AND BRAMBLES

Common Name	Species	Growth Habit ²
	Apply 1 pint per acre	
Field bindweed	(Convolvulus arvensis)	Р
Hedge bindweed	(Calystegia sepium)	A
	Apply 2 to 3 pints per acre ¹	
Wild buckwheat	(Polygonum convolvulus)	Р
	Apply 3 to 4 pints per acre¹	
Greenbriar		Р
	(Smilax spp.)	P
Honeysuckle	(Lonicera spp.)	·
Morningglory	(Ipomoea spp.)	A/P
Poison ivy	(Rhus radicans)	Р
Redvine	(Brunnichia cirrhosa)	Р
Wild rose	(Rosa spp.)	P
including: Multiflora rose	(Rosa multiflora)	P
Macartney rose	(Rosa bractreata)	Р
	Apply 4 to 6 pints per acre ¹	
Kudzu⁴	(Pueraria lobata)	Р
Trumpetcreeper	(Campsis radicans)	Р
Virginia creeper	(Parthenocissus quinquefolia)	Р
Wild grape	(Vitis spp.)	Р
	BRUSH SPECIES	
	Apply 4 to 6 pints per acre¹	0
American beech	(Fagus grandifolia)	P
Ash	(Fraxinus spp.)	P
Bald cypress	(Taxodium distichum)	P
Bigleaf maple	(Acer macrophylum)	P
Blackgum	(Nyssa sylvatica)	Р
Black locust ⁷	(Robinia pseudoacacia)	Р
Boxelder	(Acer negundo)	Р
Brazilian peppertree	(Schinus terebinthifolius)	P
Cherry	(Prunus spp.)	P
Chinaberry	(Melia azadarach)	P
Chinese tallow-tree	(Sapium sebiferum)	Р
Dogwood	(Comus spp.)	Р
Elm ⁸	(Ulmus spp.)	Р
Hawthorn	(Crataegus spp.)	Р
Hickory	(Carya spp.)	Р
Honeylocust ⁹	(Gleditsia triacanthos)	Р
Maple	(Acer spp.)	Р
Melaleuca	(Melaleuca quiquenervia)	Р
Mulberry	(Morus spp.)	Р
Oak	(Quercus spp.)	Р
Persimmon	(Diospyros virginiana)	Р
Poplar	(Populus spp.)	Р
Privet	(Ligustrum vulgare)	Р
Red alder	(Alnus rubra)	P
Red maple	(Acer rubrum)	Р
Russian olive	(Eleagnus angustifolia)	Р
Saltcedar	(Tamarix ramosissima)	Р
Sassafras	(Sassafras albidum)	Р

BRUSH SPECIES (continued)

Apply 4 to 6 pints per acre¹ (continued)

Common Name	Species	Growth Habit ²
Sourwood	(Oxydendrum arboreum)	Р
Sumac	(Rhus spp.)	Р
Sweetgum	(Liquidambar styraciflua)	Р
Willow	(Salix spp.)	Р
Yellow poplar	(Liriodendron tulipifera)	Р

¹ The higher rates should be used where heavy or well-established infestations occur.

² Growth Habit: A = Annual, B = Biennial, P = Perennial

³ For preemergence control, tank mix with **Pendulum® herbicide**.

⁴ Use a minimum of 75 GPA; control of established stands may require repeat applications.

⁵ For preemergence control, tank mix with **Karmex®**, **Pendulum**, or diuron.

⁶ For best results, early postemergence applications are required.

⁷ Tank mix with **Accord®**, **Escort®**, **Garlon® 3A**, **Krenite®**, **Roundup®**, or **Tordon® K**.

⁸ Tank mix with **Accord**, **Escort**, or **Roundup**.

⁹ Tank mix with **Accord**, **Garlon 3A**, **Roundup**, or **Tordon K**.

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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.

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