Dr. Merlyn L. Jones DowElanco 9330 Zionsville Rd. Indianapolis, IN 46268

Dear Dr. Jones:

Subject: Groundwater Advisory Statements

Dow/Elanco Spike 40P EPA Reg. No. 62719-122

Your submission dated Oct. 12, 1994

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable and a stamped copy is enclosed for your records.

Sincerely yours,

Robert J. Taylor Product Manager 25 Fungicide-Herbicide Branch Registration Division (H7505C)

Enclosure

[Editor's note: Added text is underlined and deleted text denoted by strike-through.]

(Bag - Spike 40P) [Front of Bag]

(logo) DowElanco

ACCEPTED with COMMENTS h EPA Letter Dated:

OCT 2.0 1994

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Spike* 40P

Vegetation Management

A surface applied herbicide for woody plant control in such areas as:

- Along highways
 Pastureland Fence rows
 - Pipelines
- Other noncropland ar for control of woody

plant species

 Firebreaks Industrial sites · Railroad rights-of-way Rangeland

Clearings for wildlife habitat

Utility rights-of-way

Carefully read the entire label, including all use precautions, before applying to avoid inappropriate use of this product.

(EDITOR NOTE: insert graphic of tree in circle with slash through it. Copy below the tree is: Spike* 40P will kill trees and shrubs. Carefully read the precautions before using.)

Active Ingredient:

tebuthiuron: N-I5-(1.1-dimethylethyl)-1.3.4-thiadiazol-

toodinaton if to (1, 1 on tour) this is the condition	
2-y/]- <i>N,N'</i> -dimethylurea	40.0%
Inert Ingredients	60.0%
Total	. 100.0%
Contains 0.4 pound active ingredient per pound of product.	

Keep Out of Reach of Children

CAUTION

Refer to back panel of bag for precautionary information and Directions for Use Including Storage and Disposal.

Notice: Read the entire label. Use only according to label directions. Before buying or using this product, read "Warranty Disclaimer" and "Limitation of Remedies" inside label bookiet.

In case of emergency endangering health or the environment involving this product, call collect 517-636-

Agricultural Chemical: Keep away from food, feedstuffs and water supplies. Do not ship or store with food, feeds, drugs or clothing.

EPA Reg. No. 62719-122

EPA Est. 99579-TX-1

*Trademark of DowElanco

DowElanco • Indianapolis, IN 46268 U.S.A.

Not For Residential Use

Specialty Herbicide



PT40

[Back of Bag]

Precautionary Statements

Hazards to Humans and Domestic Animals

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.)

Causes Eye Irritation . Harmful if Swallowed, Inhaled Or Absorbed Through The Skin

Avoid breathing dust and contact with eyes, skin or clothing. Use eye protection and protective clothing such as coveralls, a long-sleeved shirt and impermeable gloves when handling this product. Eye protection, long-sleeved shirt, long pants, shoes and socks, and waterproof gloves must be worn when handling or applying this product. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

First Aid

If In eyes: Flush eyes with plenty of water. Call a physician if irritation develops.

If swallowed: Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger or, if available, by administering one to two teaspoons of syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person. If Inhaled: Remove individual to fresh air. If breathing difficulty occurs, get medical attention. If not breathing, provide cardiopulmonary resuscitation assistance (mouth-to-mouth) and get medical attention. If on skin: Wash with plenty of soap and water. Get medical attention if irritation develops.

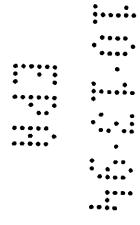
Environmental Hazards

Do not apply Spike* 40P herbicide near desirable trees or other woody species. Exposure of even a small part of a plant root system to Spike 40P may cause severe plant injury or death. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning equipment, disposing of equipment washwaters, or disposing of wastes when disposing of equipment washwaters or rinsate.

Spills: To prevent unintended damage to nontarget vegetation or contamination of ground water, cover spills with waterproof covering if in outdoor area; then carefully collect and dispose of spilled pellets, whether in storage areas, vehicles or on the soil surface. (See General Information section for remedial action after accidental application or spill.) In outdoor areas, do not cover with soil or incorporate spilled material into the soil surface.

Ground Water Advisory: This product is known to leach through soil into ground water under certain conditions as a result of registered (rangeland and non-crop) uses. Use of this product in areas where soils have rapid to very rapid permeability, particularly where the water table is shallow, may result in ground water contamination.





Use Restrictions for Groundwater Protection

<u>Vulnerable Sites:</u> To minimize any movement of tebuthiuron to subsurface water, do not exceed the application rates specified below on treatment sites where soils have a sand or loamy sand texture throughout the soil profile and all of the following characteristics:

- 1. Rapid to very rapid permeability.
- 2. Absence of well-defined organic layers or a textural B-horizon (restricting layer of fine-textured soil).
- 3. The water table of an underlying aquifer is shallow.

The maximum use rates for Spike 40P in areas described above are:

- · Less than 20 Inches annual precipitation: Do not apply more than 2.5 lb/acre Spike 40P.
- Greater than 20 inches annual precipitation: Do not apply more than 5 ib/acre Spike 40P.

Refer to the "Woody Plants Controlled" section of this label for plant species controlled at these application rates.

[†]An aquifer is defined as "an underground saturated, permeable, geologic formation capable of producing significant quantities of water to a well or spring. It is the ability of the saturated zone, or portion of that zone, to yield water which makes it an aquifer (American Chemical Society, 1983). Local agricultural agencies can provide further information on the type of soil in your area and the location of shallow ground water aquifers.

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Do not apply Spike 40P in areas where the water table is predominately shallow (5 feet or less), such as marshy or sub irrigated areas, or areas immediately adjacent to streams or lakes which are periodically tlooded, unless such use is allowed under a state-approved pesticide management program. Note: Also on such areas, woody plants rooted directly in a shallow water table are minimally affected by applications of tebuthiuron and poor woody plant control will result.

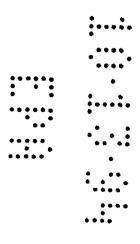
Do not apply Spike 40P where bedrock is continuously exposed or in areas of bedrock overlain by soils that are shallow or discontinuous.

Do not apply Spike 40P in areas adjacent to sinkholes or depressions lacking external drainage which occur within areas of karst topography.

Do not apply Spike 40P to high shrink/swell spils (vertisols) which develop deep cracks upon drying.

Do not apply Spike 40P within areas identified by state or local authorities as protected groundwater recharge zones.





Directions for Use

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Read all Directions for Use carefully before applying.

Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

Storage: The herbicidal properties of Spike 40P require caution in handling, storage and transportation of this product. Store in original container only. In case of leak or spill, contain material and discose as waste

Pesticide Disposal: Open dumping is prohibited. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal: Completely empty bag into application equipment. Do not reuse. Then 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.

Refer to label bookiet in pocket of bag for additional precautionary information, Special Use Precautions and Directions for Use.

Directions Enclosed [EDITOR NOTE: Turned at a 20° angle inside a box which has all 4 sides as bold dotted lines.]

[Right Gusset of Bag]

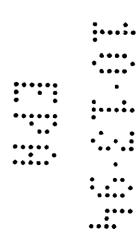
(logo) DowElanco

Spike* 40P

[Left Gusset of Bag]

(logo) DowElanco

Spike* 40P



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[Literature Booklet - Spike 40P] [Front Cover of Booklet]

(logo) DowElanco

Spike* 40P

Vegetation Management

A surface applied herbicide for woody plant control in such areas as:

- Along highways
- Pastureland
- Fence rows
- Pipelines
- FirebreaksIndustrial sites
- Railroad rights-of-way
- Rangeland
- Utility rights-of-way
- Other noncropland areas for control of woody plant species
- · Clearings for wildlife habitat

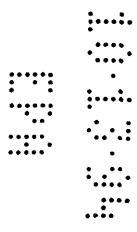
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EPA Reg. No. 62719-122

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DowElanco • Indianapolis, IN 46268 U.S.A.

Specialty Herbicide



[Page 2 of Booklet]

Active Ingredient:
tebuthiuron: N-{5-(1,1-dimethylethyl)-1,3,4-thiadiazol2-yl}-N,N'-dimethylurea 40.0%
Inert Ingredients 60.0%
Total 100.0%
Contains 0.4 pound active ingredient per pound of product.

Precautionary Statements

Hazards to Humans and Domestic Animals

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First Aid

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If swallowed: Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching back of throat with finger or, if available, by administering one to two teaspoons of syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person.

If Inhaled: Remove individual to fresh air. If breathing difficulty occurs, get medical attention. If not breathing, provide cardiopulmonary resuscitation assistance (mouth-to-mouth) and get medical attention.

If on skin: Wash with plenty of soap and water. Get medical attention if irritation develops.

Environmental Hazards

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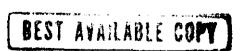
Do not apply Spike 40P in areas where the water table is predominately shallow (5 feet or less), such as marshy or sub irrigated areas, or areas immediately adjacent to streams or lakes which are periodically flooded, unless such use is allowed under a state-approved pesticide management program. Note: Also on such areas, woody plants rooted directly in a shallow water table are minimally affected by applications of tebuthiuron and poor woody plant control will result.

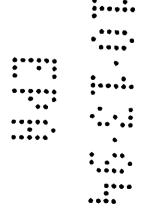
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Do not apply Spike 40P in areas adjacent to sinkholes or depressions lacking external drainage which occur within areas of karst topography.

Do not apply Spike 40P to high shrink/swell soils (vertisols) which develop deep cracks upon drying.

Do not apply Spike 40P within areas identified by state or local authorities as protected groundwater recharge zones.





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Directions for Use

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Storage and Disposal

Do not contaminate water, food or feed by storage or disposal.

Storage: The herbicidal properties of Spike 40P require caution in handling, storage and transportation of this product. Store in original container only. In case of leak or spill, contain material and dispose as waste.

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Container Disposal: Completely empty bag into application equipment. Do not reuse. Then 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.

General Information

Spike 40P herbicide is a surface applied soil-active herbicide product for control of woody plants (trees, shrubs and vines). Treatments become effective after sufficient rainfall has occurred to move the active ingredient in Spike 40P into the root zone. Herbicidal symptoms appear most rapidly when applied just before seasonal rainfall. Treated trees and shrubs (brush) exhibit leaf chlorosis and browning followed by defoliation. Woody plants may go through several defoliation cycles before death occurs. Time required to achieve control of woody vegetation may vary from one to several years. Increased application rates and additional time is required to achieve consistent woody plant control under the following conditions: (1) the treated area contains deep, medium-to-fine textured or high organic matter soils; (2) the target species are deep-rooted; or (3) the vegetation consists of species tolerant to Spike 40P.

For best brush control results, do not disturb intact treated plants by such practices as wood cutting, chaining or burning for two years after application of Spike 40P. Resprouting is more likely to occur if plants are disturbed before complete woody plant control occurs.

General Use Precautions:

Spike 40P is intended for control of unwanted woody vegetation such as trees, shrubs and vines. Spike 40P will also control herbaceous broadleaf plants such as clover or lespedeza. Grasses in the area immediately adjacent to pellets may be temporarily damaged. Dormant season application is recommended to minimize herbicidal effects on grasses and other herbaceous plants. The herbicidal activity of Spike 40P in soil may prevent the growth of trees, shrubs and other broadleaf vegetation for several years after treatment.

Do not apply Spike 40P to interior ditch banks (areas which slope toward the drainage). Do not apply to ditches used to transport irrigation water or potable water.

Use Restrictions in the State of Florida

In Broward, Coiller, Dade, Hendry, Lee, Monroe and Paim Beach Counties of Florida, Spike 40P may be applied only in accordance with supplemental labeling.

Maximum Application Rate for Grazing or Haying: If treated area is to be used for haying or grazing, do not apply more than 10 pounds per acre of Spike 40P. If treated area is to be used for grazing or haying, do not apply more than 5 pounds per acre of Spike 40P in areas receiving 20 inches or less average annual rainfall, or more than 10 pounds per acre of Spike 40P in areas receiving more than 120 inches average annual rainfall.



Haying restriction: Do not cut hay for livestock feed for one year after a Spike 40P treatment.

Effects on Herbaceous Vegetation: Spike 40P may injure or suppress certain herbaceous vegetation in the treated area. Therefore, do not apply where such injury cannot be tolerated. Injury to most herbaceous perennial plants is reduced if Spike 40P is applied when vegetation is dormant.

Do not apply Spike 40P more than once per year.

Safe use of Spike 40P requires the following guidelines to be carefully followed:

Treatment Setback: Do not apply Spike 40P in the vicinity of desirable plants. Exposure of even a small part of a plant root system to Spike 40P may cause severe plant injury or death.

Note: Plant roots usually occupy an area much larger than the aerial portion of the plant. Treatment setback distance should be 1 to 2 times the height or width of adjacent nontarget vegetation, whichever is greater. For example, if adjacent nontarget vegetation is 25 feet tall, the treatment setback should be 25 to 50 feet.

If there is a question about appropriate setback distance, contact an Arborculturist (tree expert) to determine if the proposed treatment area is free of roots of desirable vegetation.

Potential Product Movement: Spike 40P or soil containing Spike 40P may be moved from treated areas by flowing water, wind or mechanical means. Do not apply Spike 40P in areas where overland flow of water might move Spike 40P or soil containing Spike 40P from the treated area. Do not apply where wind erosion may cause movement of soil containing Spike 40P from the treated area unless the surface has been stabilized with a gravel mulch or some other means. Do not apply in areas where soil may be redistributed by mechanical means to non-treated areas.

Cleaning of Equipment: Thoroughly clean all traces of Spike 40P from application equipment after use. Do not empty residues cleaned from application equipment on areas where contact with roots of desirable vegetation may occur.

Remedial Action After Accidental Application or Spill: Take action to minimize the effects of an accidental application or spill immediately. Once rainfall has moved Spike 40P into the plant root zone, the effect on woody plants is irreversible. Damage from accidental application or spill may be prevented only if soil containing Spike 40P is carefully removed before rainfall has moved Spike 40P into the root zone. Apply a waterproof covering to the affected area until cleanup is accomplished. Carefully collect Spike 40P pellets and/or soil containing Spike 40P with appropriate equipment and dispose at an approved landfill site. If rainfall has occurred, remove surface soil in the affected area to the depth of Spike 40P penetration.

Frequency of Application and Maximum Use Rates: Broadcast Applications (Aerial or Ground Equipment):

- The maximum use rate and frequency of application is 1 to 2 lb a.i./acre once every three years for yulnerable sites where soils are sandy and depth to water table is shallow. (Refer to Environmental Hazards section under "Use Restrictions for Ground Water Protection".)
- For all other areas, the maximum use rate and frequency of application is up to 4 b a i /acre once every three years and no more than two treatments totaling of 6 b a i /acre in any 6 year period.

Spot Treatments (Hand Application or Hand-held Equipment): May be applied at rates up to 6 fb a i dare when needed.

BEST AVAILABLE COPY

General Information

Spike 40P is a surface applied soil-active herbicide for control of woody plants (trees, shrubs and vines). Treatments become effective after sufficient rainfall has occurred to move the active ingredient in Spike 40P into the root zone. Herbicidal symptoms appear most rapidly when applied just before seasonal rainfall. Treated trees and shrubs (brush) exhibit leaf chlorosis and browning followed by defoliation. Woody plants may go through several defoliation cycles before death occurs. Time required to achieve control of woody vegetation may vary from one to several years. Increased application rates and additional time is required to achieve consistent woody plant control under the following conditions: (1) the treated area contains deep, medium-to-fine textured or high organic matter soils; (2) the target species are deep rooted; or (3) the vegetation consists of species tolerant to Spike 40P.

For best brush control results, do not disturb intact treated plants by such practices as wood cutting, chaining or burning for two years after application of Spike 40P. Resprouting is more likely to occur if plants are disturbed before complete woody plant control occurs.

— General Use Precautions

Do not apply Spike 40P to interior ditch banks (areas which slope toward the drainage). Do not apply to ditches used to transport irrigation water or potable water.

- Maximum Application Rate for Grazing or Haying: If treated area is to be used for haying or
 grazing, do not apply more than 10 pounds per acre of Spike 40P. If treated area is to be used for
 grazing or haying, do not apply more than 5 pounds per acre of Spike 40P in areas receiving 20 inches
 or less average annual rainfall, or more than 10 pounds per acre of Spike 40P in areas receiving more
 than 20 inches average annual rainfall.
- Haying restriction: Do not cut hay for livestock feed for one year after a Spike 40P treatment.
- Effects on Herbaceous Vegetation: Spike 40P may injure or suppress certain herbaceous vegetation in the treated area. Therefore, do not apply where such injury cannot be tolerated. Injury to most herbaceous perennial plants is reduced if Spike 40P is applied when vegetation is dormant.
 Do not apply Spike 40P more than once per year.

[Editor's note: The above "deleted" text moved to the General Use Precautions section.]

Factors in Herbicidal Response

Soil Texture, Soil Depth and Organic Matter

Poor control or erratic results are likely to occur when Spike 40P is applied to soils containing more than 5% organic matter or more than 30% clay. Do not apply to "blackland" or other heavy clay soils which crack extensively upon drying. Other deep, medium and fine-textured soils supporting deep-rooted woody plant species require increased application rates for consistent control. The susceptibility of woody plants occurring on shallow, coarse or rocky soils with low organic matter is normally increased due to increased soil availability of Spike 40P and shallow rooting depth. Therefore, use application rates at the low end of the rate range in these situations.

Woody Plant Size and Density

The height and density of woody vegetation is a reliable indicator of soil conditions. Woody vegetation is generally talter and more dense where soils are deeper and/or of medium to fine texture and where soil moisture conditions are more favorable. Higher rates in the rate range are required on such sites. On sites with coarse, shallow or rocky conditions with less favorable soil moisture conditions, woody vegetation will be smaller and less dense. Lower rates in the rate range are required for control on such sites. Where a high level of woody plant control is required and application rates cannot be adjusted for changes in soils, plant size or density, apply Spike 40P at a rate sufficient to control the tallest and most dense woody vegetation in the treatment area.



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Application Timing

Spike 40P may be applied anytime except when the soil is frozen or is saturated with moisture. For optimum results, applications should be made prior to the resumption of active seasonal growth in the spring or before expected seasonal rainfall. In areas receiving greater than 25 inches of annual rainfall, late summer and fall applications may require a higher application rate in the indicated rate range to achieve consistent control.

Spike 40P is recommended for control of brush regrowth after dozing or shredding, provided the regrowth has reached an average height of five feet or more prior to application. Spike 40P works best when there is an abundance of active leaf area to stimulate water and herbicide uptake during the season following application. Taller regrowth will tend to provide faster and more consistent brush control.

Spike 40P may cause temporary herbicidal symptoms to appear on perennial grasses. Dormant season application is recommended to minimize herbicidal effects on desirable forage grasses.

Effect of Shallow Groundwater on Woody Plant Control: Do not apply Spike 40P to areas where the water table is predominately shallow (5 feet or less), such as marshy or sub irrigated areas, or areas immediately adjacent to streams or lakes which are periodically flooded. On such sites, where roots extend directly to a shallow water table, woody plants are minimally affected by applications of tebuthiuron and poor control will result.

Rangeland and Pasture Management Information

There are no label restrictions which require livestock grazing to be delayed following an application of Spike 40P. Spike 40P is a pelleted formulation and does not adhere to plants. Therefore, significant plant residues do not occur as a result of application. However, at the time of application forage species may be sparsely distributed and in a low state of vigor due to competition from woody plants. Under such circumstances, the density and vigor of forage species may be enhanced by deferment of grazing following application of Spike 40P.

Grazing Management

For optimum perennial forage grass response, desirable species should be present in the area to be treated at a minimum of 10% of normal plant density (density = plants per unit area) compared to similar rangeland or pasture sites not dominated by woody plants. To encourage forage grass response, grazing should be deferred during the entire active growing season following application. Poor vegetative vigor or inacequate rainfall, may necessitate additional grazing deferment during periods of active forage growth. Light grazing of mature forage after seed maturity will not harm grass recovery and can aid in seed dispersal. Forage grass production usually increases as woody plant competition for water and nutrients is reduced. However, increased forage production is also dependent on adequate rainfall and a sound grazing management program.

Precaution: The density of cool season grass stands such as fescue and crested wheatgrass may be reduced after application of Spike 40P. Factors which may contribute to the possibility of stand reduction include excessive application rates, areas of shallow or rocky soil and low brush density.

Rangeland and Pasture Overseeding: Apply Spike 40P at recommended rates. Overseeding involving burning or chaining of treated brush should not be attempted for at least two growing seasons after application. Apply seed and fertilizer at recommended rates into ash as soon as possible after burning or just prior to chaining. Cool season grasses are normally seeded in early fall and warm season grasses in the spring after the expected frost-free date. Aerial seeding without burning or chaining may be attempted in the fall or spring following an application of Spike 40P, but natural seedbed conditions must be relied upon for seedling establishment. Consult local range management specialists for...* recommendations on locally adapted species, seeding time and grazing management...



Application of Spike 40P

Individual Plant Treatments

individual plants, multistem clumps or small stands of woody vegetation may be hand treated. For individual plant treatments apply Spike 40P evenly over the area occupied by the target plant(s).

Pasture and Rangeland

- In areas receiving 20 inches or less average annual rainfall: Apply Spike 40P at a rate of 3/8 oz per 200 sq ft (equivalent broadcast rate = 5 lb/acre).
- In areas receiving more than 20 inches average annual rainfall: Apply Spike 40P at a rate of 3/4 oz per 200 sq it (equivalent broadcast rate = 10 lb/acre).

Noncropland

• Apply Spike 40P at a rate of 3/8 oz to 1 1/8 oz per 200 sq ft (equivalent broadcast rate = 5 to 15 lb/acre).

Broadcast Treatments

Spike 40P must be applied with ground or aerial application equipment capable of accurate calibration and able to provide a uniform distribution of pellets on the soil surface. Use of equipment not capable of confining the spread of pellets to the target area may result in injury or death of vegetation outside the intended treatment area. Contact a DowElanco sales representative for recommendations on application equipment for different use situations.

Spike 40P may be applied by ground or air broadcast by/or under the supervision of U.S. Government Agancies.

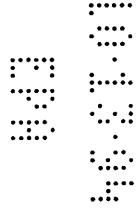
Broadcast Application Rates

Pasture and Rangeland: Do not apply more than 5 pounds per acre Spike 40P in areas receiving 20 inches or less average annual rainfall. Do not apply more than 10 pounds per acre in areas receiving 20 inches or more average annual rainfall.

Noncropland: Spike 40P may be applied at up to 15 Do not apply more than 10 pounds per acre of Spike 40P on noncropland.

Note: Refer to General Information section for limitations on maximum use rates, frequency of application and total application rates allowed during a given period of time. Refer to Environmental Hazards section under "Use Restrictions for Ground Water Protection" for other rate limitations on "vulnerable" sites.





sage, black spruce, white* 14417

Woody Plants Controlled by Spike 409

Rangeland, Pastureland and Noncropland:
Apply Spike 40P at 5 to 10 lb per acre on the following woody plant species:

Note: On rangeland or pastureland sites with shallow, rocky and coarse textured soils with low organic matter content, or where partial control is desired, a lower rate in the indicated rate range may be appropriate (See "Factors in Herbicidal Response" in the "General Information" section of this label.)

Common Name	Scientific Name	
acacia, blackbrush	Acacia rigidula	
acacia, catclaw	Acacia greggii	
acacia, twisted	Acacia tortuosa	
alder, speakled	Alnus rugosa	
apple-of-sodom	Solanum sodomeum	
birch, gray	Betula populifolia	
blueberry	Vaccinium spp.	
bluewood (Brazil)	Condalia obovata	
buckbrush	Symphoricarpos orbiculatus	i
cherтy, bitter	Prunus emarginata	
eetterwood, eastern?	Populus deltoides	
dogwood, roughleaf	Cornus drummondii	
elm, American	Ulmus americana	
elm, winged	Ulmus alata	
fir, balsam†		
guajillo	Acada berlanderi	
guava	Psidium guajava	
hackberry, spiny	Celtis pallida	
(granjeno)	Celtis 🕶 🖰 antalis	
hackberry, western		
hardhaek†		
hawthom	Crataegus spp.	
huckleberry	Gaylussacia spp. — Aoacia famesiana	
huisache†	Leucaena leucocephalla	
koa haole	Robinia pseudoacacia	
locust, black manzanita	Arctostaphylos spp.	
	- Acer saccharum	
maple, sugarf————————————————————————————————————	Morus rubra	
mulberry, red	Quercus durandi	
oak, bigelow oak, black	Quercus velutina	DECT
oak, blackjack	Quercus marilandica	(pro
oak, blue	Quercus douglasii	
oak, bur	Quercus macrocarpa	
oak, mohr	Quercus mohriana	
oak, post	Quercus stellata	
oak, running live	Quercus virginiana	
oak, shrub live	Quercus turbinella	
oak, sand shinnery	Quercus havardii	
oak, southern red	Quercus falcata	
oak, white	Quercus alba	
pine†	— Pinus spp.	
poplar, balsam†	Populus balsamifera	
rose, McCartney*	Rosa bracteata	
rose, multiflora	Rosa multiflora	
1030, Hamiltota		

Salvia melifera

Picea glauca



Rhus copallina sumac, dwarf sumac, littleleaf Rhus microphylla Rhus trilobata sumac, skunkbush Rhus glabra sumac, smooth Rhus typhina sumac, staghom Larix laricina ternereck†-Datura discolor thornapple, desert whitebrush Aloysia lycoides Lycium berlanderi wolfberry, Berlandier llex vomitoria yaupon yaupon, desert Schaefferia cuneifolia

Note: Use a higher dosage in indicated rate range on all sites.

Noncropland only:

Apply Spike 40P at 10 to 15 lb per acre on the following woody plant species:

Common Name	Scientific Name		
alder, red	Alnus rubra		
alder speckledt	Alnus rugosa		
ash, green†	-Fraxinus pennsylvanica		
aspen, bigtooth	Populus grandidentata		
beech, American	Fagus grandifolia		
blackberry	Rubus spp.		
blackberry, outleaf	- Rubus laciniatus		
boxelder	Acer negundo		
chamise	Adenostoma fasciculatum		
cherry, black	Prunus serotina		
chokecherry, common	Prunus virginiana		
colubrina, Texas	Colubrina texensis		
cottonwood, eastern ^I	Populus deltoides		
coyetabush †—————	- Baccharis pilularis		
creeper, Virginia	Parthenocissus quinquefolia		
dogweed, flowering	Cornus florida		
douglasfir	Pseudotsuga menziesii		
fr. balsam [‡]	Abies balsamea		
guayacan	Porlieria angustifolia		
hardhadk [‡]	Spiraea tomentosa		
hickory, bitternut	Caraya cordiformis		
hickory, black	Caraya texana	gradent securities of community of the c	wanter 15 og
hickory, pignut	Caraya glabra	BEST AVAILABLE	
hickory, shagbark	Caraya ovata	Brai Masserine	Al.
huisache [†]	Acacia famesiana		
kid⊵eywood, Texas	Eysenhardtia texana		
kuc .u	Pueraria lobata		
lantana†	- Lantana camara		
leatherstem	Jatropha dioica		
lotebust (condalia)	Ziziphus obtusifolia		
maple, bigleaf	Acer macrophyllum		::
maple, Norway†	- Aoer platanoides		•
maple, silver*	- Acer saecharinum		
made, sugar [†]	Acer saccharum		••••
melaleuca [±]	Melaleuca quinquenervia	••••	•
mountainmahogany, birchleaf	Cercocarpus betuloides	• •	•
oak, California scrub	Quercus dumosa		•
oak, live	Quercus virginiana	••	• • •
oak, pin	Quercus palustrus		•
			• ••
			• •

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oak, red	Quercus rubra	
oak, white	Quercus alba	
peppertree, Brezilian†	Schinus terebinthifolius	
pine, Australian	Casuarina spp.	
<u>cine</u> t	Pinus spp.	
poplar balsam [‡]	Populus balsamifera	
raspberry, black	Rubus occidentalis	
rose, McCartneyt	Rosa bracteata	
salal†	- Gaulthoria shallon	
scruce, white [†]	Picea alauca	
sweetgum	Liquidambar styraciflua	
sycamore, American†	- Platanus occidentalis	
tamarack [†]	Larix laricina	
trumpetcreeper	Campsis radicans	
tuiiptree†	-Linedendren tulipilera	
willow	Salix spp.	
Note: Use a higher dosage in indicated rate range on all sites.		

Noncropland only: (Individual Plant Treatment Only);
Apply Spike 40P at 15 lb per acre on the following woody plant species:

Common Name	Scientific Name
ash creen	Fraxinus pennsylvanica
ash, white	Fraxinus americana
blackberry cutteat	Rubus laciniatus
ceanothus, wedgeleaf	Ceanothus cuneatus
chaparral, whitethorn	Ceanothus leucodermis
covotebush	Baccharis pilularis
elm, Chinese	Ulmus parvifolia
elm, slippery	Ulmus rubra
greenbriar, roundleaf	Smilax rotundifolia
hawthorn, cockspur	Crataegus crus-calli
entane	Lantana camara
manzanita, greenleaf	Arctostaphylos patula
made, Norway	Acer platanoides
maple silver	Acer saccharinum
maple, vine	Acer circinatum
perpertree, Brazilian	Schinus terebinthifolius
privet	Ligustrum spp.
redcedar, eastern	Juniperus virginiana
Russianolive	Eleagnus angustifolia
<u>szta</u>	Gaultheria shallon
sumac, laurel	Rhus laurina
sycamore, American	Platanus occidentalis
tallowtree, Chinese	Sapium sebiferum
tricites	Liriodendron tulipifera



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inherent Risks of Use

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It is impossible to eliminate all risks associated with use of this product. Plant injury, lack of performance, or other unintended consequences may result because of such factors as use of the product contrary to label instructions (including conditions noted on the label, such as unfavorable temperature, soil conditions, etc.), abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes), presence of other materials, the manner of application, or other factors, all of which are beyond the control of DowElanco or the seller. All such risks shall be assumed by buyer.

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- 1. Refund of purchase price paid by buyer or user for product bought, or
- 2. Replacement of amount of product used

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