Directions for Use

See Allached Literature for Complete Directions for Use. Read all directions carefully before applying It is a violation of Faderal Law to use this product in a manner inconsistent with its tabeling.

Precautionary Statements

Hazarda to Humana and Domestic Animals

May be faral if swellowed. Causes moderate eye kritation. Harmful if absorbed through the sky) Avoid breathing dust and contact with sky) or eyes Use eye protection and protective clothing, such as coveralls, a long-sleeved shut, and imperimeable gloves when handling this product Wash thoroughly with soap and water after handling and before sating, drinking, or using tobacco. Wash exposed clothing below trues.

First Ald: If swallowed: Call a physician or poison control center. Drink 1 or 2 glasses of water and induce vomiting by fouching back of throat with linger, or, if available, by administering 1 to 2 leaspoons of syrup of specac. Do not induce vomiting or give anything by mouth to an unconscious person

If in eyes: Flush eyes with planty of water. Call a physician il tritation persists If on skin. Wash with plenty of soap and water Get modical attention if kritation possists. If inhaled, if breathing difficulty occurs, move tridividual to tresh air and get medical

Environmental Hezards

Do not contaminate any body of water, ponds or streams as death or injury may occur to vegetation impated by such. Do not contaminate water by cleaning of equipment or

STORAGE AND DISPOSAL

Storage: The harbicidal properties of Spike Dry Flowable require caution in handling, storage and transportation of this product. Slove in original container only. In casu of leak or spill, cordain material and dispose as waste.

Peathold: Disposal: Do not contaminate water, food, or feed by storage or disposal. Open duriping is prohibited Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposet facility.

Container Disposal: Triple rinse (or equivalent). Do not reuse. Then puncture and dispose of m a sanitar, landful, away from desirable plants, trees and water supply, or by incirculation, or, if allowed by State and local authorities, by burning if burning, stay

The manufacturer makes no warranties, express or englied, concerning this product or its use which extend deyond the description on the label All statements made concerning this product apply only when used as directed Spike Dky Flowable must be supped according to Europia written instructions, without on the historia written instructions, without on the historia written instructions, without on the historia written instructions, without on the continuous or product of the continuous or written any warranty, when suppose or implied, for the use of Spike Dky Flowable, alone or in combination with other products, when their use in the linear compliance with Etanco's written. recommendations

EPA Est. 1471-IN-5; 37429-GA-01 Superscript used in that letter of fol number

Elanco Products Company . A Division of Ell Lilly and Company Indianapolla, IN 46285, U.S.A.

ELANCO: ID 5943



ACCEPTED

DEC - 2 1987

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No.

Net Weight 4 Pounds

A preemergence and postemergence herbicide for control of brush and weeds in such areas as:

- Around Industrial buildings
 Ditchbanks
 - · Firebreaks
- flailway roadbeds & bellast

 Lumberyards · Tank larms

Dry Flowable

- Fence rows
- · Railroad rights-of-way · Railroad yards

- · Airport runways
- · Utility substations and rights-of-way
- · Road shoulders where no vegetation is desired
- At the base of transmission towers and poles
- · At the base of highway guardrails, signposts, and markers
- Under asphalt and concrete pavements where no future landscaping is planned

The degree and duration of control may vary with the amount of chemical applied, soil texture, and other conditions.

Active Impedient:

tobultiuron' N[5-(1,1-dimethylethyl)-

Contains 3.4 pounds active ingredient per 4 pound bottle. *Spike'—Itio registered trademark for Elanco Products telephoron

Keep Out of Reach of Children.

WARNING

See side panel for additional precautionary statements.

EPA Reg. No. 1471-147 FN 3084

Dry Flowable

Not For Residential Use



A preemergence and postemergence herbicide for control of brush and weeds

Not For Residential Use

*Spike" - the registered trademark for Elenco Products tobulituron.

EPA Reg. No. 1471-147
Elanco Products Company
A Division of Ell Lilly and Company
Indianapolis, IN 46285, U.S.A.

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Estatable ravised September 5, 1985 Pt 2051 AMP

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The manufacturer makes no warrantles, express or implied, concerning this product or its use which extend beyond the description on the label. All statements made concerning this product apply only when used as directed. Spike Dry Flowable must be applied according to Elanco's written instructions, including, but not limited to, recommended rates. Fallure to do so may result in poor weed control or plant injury. Elanco expressly disclaims any warranty, either express or implied, for the use of Spike Dry Flowable, alone or in combination with other products, when that use is not in strict compliance with Elanco's written recommendations.

Precautionary Statements

Keep Out of Reach of Children.

Hazards to Humans and Domestic Animals WARNING

May be fatal if swallowed. Causes moderate eye irritation. Harmful if absorbed through the skin. Avoid breathing dust and contact with skin or eyes. Use eye protection and protective clothing, such as coveralls, a long-sleeved shirt, and impermeable gloves when handling this product. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Wash exposed clothing before reuse.

First Ald: If swallowed: Call a physician or poison control center. Drink 1 or 2 glasses of water and induce vomiting by louching back of throat with finger, or, if available, by administering 1 to 2 leaspoons of syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person.

If in eyes: Flush eyes with plenty of water. Call a physician if irritation persists.

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

If Inhaled: If breathing difficulty occurs, move individual to Iresh air and get medical attention.

Environmental Hazards

Do not contaminate any body of water, ponds or streams as death or injury may occur to vegetation irrigated by such. Do not contaminate water by cleaning of equipment or disposal of wastes.

STORAGE AND DISPOSAL

Storage: The herbicidal properties of Spike Dry Flowable 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.

Pesticide Disposal: Do not contaminate water, food, or feed by storage or 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: Triple rinse (or equivalent). Do not reuse. Then puncture and dispose of in a sanitary landfill, away from desirable plants, trees and water supply, or by inclineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Precautions



Spike Dry Flowable is intended for noncropland vegetation control. It is an extremely active herbicide which will kill trees, shrubs and other forms of desirable vegetation having roots extending into

the treated area. Feeder roots of many species of destrable vegetation extend many feet beyond the drip line of the branches, and a very small amount of Spike Dry Flowable in contact with one feeder root of a tree, shrut or other destrable vegetation may cause serious injury or death to the entire plant.

An arborloullurist (tree expert) should be consulted to help you to determine if the area of proposed application is free of all roots of destrable vegetation. The effect of Spike Dry Flowable on destrable vegetation may be trreversible and its presence in the soil may prevent growth of other destrable vegetation for some years after application.

Read the entire label before using Spike Dry Flowable to determine if this product is sullable for the desired purpose.

Do not use Spike Dry Flowable on areas such as walks, driveways, streets, lawns, palios, tennis courts, swimming pools, cemeteries, or other landscaped areas, or under asphalt or concrete pavement where future landscaping is planned. Do not apply on field crops. Do not apply on any area into which the roots of field crops or other desirable vegetation may extend. Roots of trees, shrubs, and other desirable vegetation may extend far beyond the drip line of the plant's branches.

Avoid nontarget drift or product movement. Do not apply when winds are gusty or under any other condition which will allow drift or product movement. Do not apply to areas where soil movement by water erosion and/or natural or mechanical means is likely. Do not apply to areas where wind is likely to cause soil movement unless a soil seatant is used. Drift or any form of product movement from treated areas may cause damage to any vegetation to which treatment is not intended.

Dilchbank Usage—Do not apply Spike Dry Flowable to any portion of the dilchbank that will come into direct contact with water as movement of Spike Dry Flowable in this water to non-target plant species may result in the injury or death of those plants. Do not apply on dilches used to transport irrigation or potable water. Keep from contact with other pesticides and seeds.

Thoroughly clean all traces of Spike Dry Flowable from application equipment after use. Do not emply residues cleaned from application equipment on areas where they may come in contact with the roots of desirable vegetation or the water source for such vegetation.

Woody Plant Control—Grazing is allowed in areas receiving band or individual plant treatments with 4.70 pounds per acre or less of Spike Dry Flowable. In areas receiving band or individual plant treatments with 4.70 pounds per acre or less of Spike Dry Flowable, grass may be cut for hay one year after application.

Spike Dry Flowable may Injure or suppress certain herbaceous vegetation in the treated area. Therefore, do not apply where such injury cannot be tolerated. Do not apply broadcast applications of Spike Dry Flowable where forage or maintenance of a press cover is desired. Injury to most herbaceous perennials is reduced if Spike Dry Flowable is applied when this vegetation is dormant.

Directions for Use

Read all directions carefully before applying.

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

Total Vegetation Control

Spike Dry Flowable is a preemergence and postemergence herbicide for total control of vegetation in such noncropland areas as: airport runways, utility substations and rights-of-way, and concrete pavements where no future landscaping is planned, at the base of highway guardraits, sign posts and mark , at the base of transmission towers and poles, around industrial buildings, tumberyards, railroad yards, ditchbanks, firebreaks, and fence rows.

For total vegetation control in areas not treated the previous season with Spike Dry Flowable or other residual herbicides, apply Spike Dry Flowable prior to or just after emergence of plants as follows:

At 4.75 pounds per acre, Spike Dry Flowable will control the following:

Alfalfa
Aslar, heath
Bedstraw
Bluegrass, annual
Bluegrass, Kentucky
Bouncingbel
Bromograss, downy
Bromograss, ripgul
Bromegrass, smooth
Broomsedge
Bullelgrass

Aster, while heath Barley, little Grape Gumwood Hemlock, polson Henbil Honeysuckle, Japanese Horseweed Knapweed Kochta Do not apply SPIKE DRY FLOWABLE through any type of irrigation system.

Lambsquarters Burclover Bullercup. Lupine Medic, black smaillower Camphorwead Morningglory Carrot, wild Mulleln, common Nightshage. Calsear, spotted sliverleal Cheat Oat, wild Chickweed Clover, red Panicum Texas Cocklebur Peoperweed. Virginia Creeper, Virginia Crowloolgrass Pigweed Dock, curly Plantain, buckhorn Puncturevine Doglennel Fescua Ragweed, glant Raspberry, red Fescue, rallall Fiddleneck, coast Ryegrass, Italian Sedge, annual Filaree Shepherdspurse Fllaree, redstem Sida, prickly Fleabane, annual Sowihisile, annual Foxlall Gaillardia, Spikeweed Spurge rosering Geranlum. Spurge, spotted Carolina Starthistle. yellow Goldenrod Trumpelcreaper Strawberry Sunllower, common Velvelorass Velch Telegraphplant Witchgrass VillomiT At 7.0 pounds per acre, Spike Dry Flowable will control

lvy, polson

Reed, common

Sandbur, fleld Bromegrass, Japanese Smarlweed, swamp Canarygrass, Sowthistle. reed perennial Carpelweed Spurge, prostrate Chlcory Cinquefoll, common Sumac, staghorn Sweetclover, while

At 9.5 pounds per acre, Spike Dry Flowable will control the following:

Oxtongue, bristly Barnyardgrass Crabniass Poortoe Pursiane, common **Ilcharass** Johnsongrass, seedling Ragweed, common Salibush Lovegrass Orchardorass Sedge, bull

At 18.75 pounds per acre. Splke Dry Flowable will control the following:

Bermudanrass Cudweed

Lookingniass, Venus Vaseygrass

Dallisgrass

For the maintenance of total vegetation control in noncropland areas east of the Rocky Mountains which were treated the previous season with Spike Dry Flowable or other residual harbloides, apply Spike Dry Flowable prior to or just after emergence of plants as follows: (Some of the species listed may show arratic control depending on the time between application and weed germination.)

At 2.0 pounds per acre. Spike Dry Flowable will control the following:

Bluegrass, annual Bluegrass, Kentucky Parsnip, wild Pepperweed

the following:

Awngrass, triple

Barley, foxtall

Carrot, wild Chickweed, common Crolon Fleabane, annual Horseweed

Ragweed, common Smartweed. Pennsylvania Sweetclover Thistle, Canada Woodsorrel, yellow

Al 3 pounds per acre, Spike Dry Flowable will control the following:

Goldenrod

Panicum, fall

Mullein

Spurge

Pigweed

In areas of rainfail greater than 25 inches per year, the 3 pounds per aure maintenance rate should be used for all weed species listed above.

For the maintenance of total vegetation control in noncropland areas west of the Rocky Mountains which were treated the previous season with Spike Dry Flowable or other residual herbicides, apply Spike Dry Flowable prior to or just after emergence of plants: as follows: (Some of the species listed may show erratic control depending on the time between application and weed germination.)

At 1.5 pounds per acre, Spike Dry Flowable will control the following:

Bassia, livehook Cheat Lettuce, prickly Oal, wild

Cudweed Foxtati

Oxiongue, bristly Plgweed Plantain

Ryegrass, annual Sallbush Shaphardspurse Witchgrass

At 2.0 pounds per acre, Spike Dry Flowable will control the following:

Bullercup

Mustard

Canarygrass, reed Knapweed, Russlan Knolweed

Ragweed, western Starthistie. yellow

Telegraphplant At 3.0 pounds per acre, Spike Dry Flowable will control

the following: Barley Gumweed

Mallow

Sida, alkali

Smartweed, swantp

Puncturevine

In areas of rainfall greater than 25 inches per year, the 3 pounds per acre maintenance rate should be used for all weed species listed above.

Application Directions

Apply Spike Dry Flowable In 15 to 150 gallons of water per acre before or during the period of active growth of plants to be controlled, Initial control is enhanced by rainfall.

tr. areas of low annual rainfall (less than 15 inches per year) Spike Dry Flowable should be applied prior to the time of year when the predominant portion of that rainfall occurs. A minimum of 1 to 1 1/2 inches of rainfall is required to activate Spike Dry Flowable and place it in the primary weed seed germination zone.

To maximize performance under a variety of conditions. Spike Dry Flowable is recommended for use in tank-mix combination with any of the following products: amitrole, Atratol® 80W, Banvel® 720, Banvel® W.S., Karniex® 80W, MSMA, paraqual, Princep® 80W, Roundup[®], Surflan[®] 75W, 2,4-D or Oust[®]. Where applications are made to existing vegetation, the contact or burning properties of paraquat or MSMA provide the rapid top kill while Spike Dry Flowable gives the residual long-term control desired. Applications to areas which are Infested with certain difficult to con!rol perennial weeds (such as Johnsongrass, bermudagrass, quackgrass, horsetail, bindweed, dandelion or nutsedge) will benefit from tank-mixing Spike Dry Flowable with Roundup, amitrole, Banvel, Banvel 720, or 2,4-D. The addition of Surflan, Oust, Karmex, Atratol or Princep will Improve Spike's performance on certain annual broadleaf and grass weeds such as foxtail, kochia, Russian thistle, or seedling johnsongrass.

Read the Spike Dry Flowable label and labels of products to be tank-mixed carefully before using. Note all warnings, cautions, precautions, and imitations of warranty on all labels.

Apply with any sprayer that will apply the spray uniformly. Check the sprayer before and during use to insure proper calibration and uniform application.

Suffant-orgraim, Elanco Products Company
Atralult-atratina and promaton, Ciba-Guigy
Banvett-discauda, Velsicol Chemical Corporation
Kaimes *-discon, E. I. Durbon Da Remours & Company
Princes *-simatine, Ciba-Gouy
Huundup*-gliphosale, Monsanto Cumpany
Onst*-sufformeuren medityl, E. I. Durbont De Hemours & Company

To mix, fill spray tank half full of water. Start agitation and continue during the entire inlying process. Add required amount of Spike Dry Flowable and atlow to mix when tank mixing. If additional product is a welfable powder, add to tank and allow to mix thoroughly. If

additional product is a liquid, add slowly while filling remainder of tank with water. Continuous agitation in the spray tank is required to keep the materials in suspension throughout application.

Agitate by mechanical or bypass (hydraulic) means in the spray tank. If bypass or return agitation is used, it should terminate at the bottom of the tank to minimize foaming.

For treating small areas, a tank type hand sprayer or sprinkling can may be used. Before application determine the amount of water and chemical necessary to cover uniformly the area to be treated. Shake or stir frequently.

Woody Plant Control

Spike Dry Flowable Is an effective herbicide for the control of brush and vines. Spike Dry Flowable can be applied either as a broadcast spray, banded application or as an individual plant treatment depending upon the size, density and location of brush to be controlled.

Spike is to be applied to the soil (Not the Foliaget) where it is absorbed by the roots of plants. Effects are slow to appear and will not become apparent until sufficient moisture has carried Spike Dry Flowable into the root zone. The time required to achieve control is dependent on soil type, amount of rainfall and rooting depth of target species. Some species may go through several defoliations and reloliations over a period of approximately two to three years prior to dying.

Spike Dry Flowable can be applied anytime except when the ground is frozen or the soil is saturated with moisture. For optimum results, applications should be made just prior to the resumption of active seasonal growth in the spring and/or periods of rainfall. For applications made in the late summer or early fall in areas of average annual rainfall of greater than 25 Inches, higher rales should be used and inconsistent control may result on densely infested brush areas and hard to control species.

Spike Dry Flowable may be used on cut brush but for ootimum results time should be allowed for the brush to resprout to a height of approximately 5 feet prior to application. Solke requires an actively growing plant to be effective. The larger the resprouts the more Spike that will be taken up by the plant and the more effective and consistent the control will be.

For the control of woody plants and vines, the following rates of Spike Dry Flowable are recommended. These rates can vary depending upon soil type, rainfall, time of application and size/density of the woody plants.

Spike Dry Flowable applied at the rate of 1.25 pounds per acre will control the following species.

Haplopappus tenuisectus Burroweed Larrea tridentala

Creosolebush Wait-a-minute-bush

Solke Dry Flowable applied at the rate of 2.50 pounds per acre will control the following species.

Allanthus altissima Aloysia lycioides

Mimosa biuncitera

Tree-ol-heaven Whitebrush

Artemisia tridentata Carva olabra Cellis occidentalis Datura discolor Lyclum berlandleri

Morus rubra Pinus monticola Pinus spp. Prunus emarelnata Phus glabra Robinia pseudoacacia Rosa multillora Salvia leuconhylla Symphoricarpos orbiculatus

U!mus americana Vaccinium soo. Gaylussacia spp.

Blg sagebrush Pignut hlckory Western hackberry Desert thornapple Berlandier vniedlow Red mulberry Western while pine Plne Bitter cherry Smooth sumac Black locust Multiflora rose Black sage

Buckbrush American elm Blueberry Huckleberry

Soike Dry Flowable applied at the rate of 3.50 pounds per acre will control the following species.

Abies balsamea Acacia farnesiana Acer saccharum Alnus rugosa Batula populilolia Carya lexana Cellis pallida Condalia obtusilolla llax vomitoria Lerix laricina Picea glauca Populus balsamilera Populus delloides Quercus douglasii

Balsam (ir Hulsache Sugar maple Speckled aider Gray blrch Black hickory Granleno Lotebush condalia Yaunon Tamarack White spruce

Balsam poplar Eastern collonwood Siue Oak

Quercus marilandica Quercus stellata Salix spp. Schaelleria cuneilolia Soiraea tomentosa Ulmus alata

Blacklack oak Post oak Willow Desert yaupon Hardhack Winged elm

Spike Dry Flowable applied at the rate of 4.70 pounds per acre will control the following species.

Gualillo

Acacia berlandleri Acacla greggil Acacia rigidula Acacia tortuosa Acer negundo Adenosioma lasciculatum Chamise Alnus rubra Campsis radicans Carya ovala Cercocarpus betuloides Colubrina lexensis Condalla obovata Cornus drummondii Crataegus spp. Evsenhardlia lexana Fagus grandilolia Jairopha diolca Leucophyllum Irulescens Liquidambar styracillus Parthenocissus auinauelolia

Populus grandidentata

Pseudotsuga menziesil

Porlieria angustilolia

Prunus virginiana

Calclaw acacla Blackbrush acadla Twisted acacla Boxelder Red alder Trumpelcreeger Shagbark hickory Birchleaf mountain-mahogany Texas colubrina Bluewood condalia Roughleaf dogwood Hawlhorn Texas kidneywood American beech Leatherstem Cenizo (Texas silverleal)

Sweelgum

Virginia creeper Biglooth aspen Guayacan Common chokecherry Douglas lir

Pueraria lobata Quercus dumosa

Quercus palustris Quercus rubra Quercus virginiana Rhus typhina Rubus allegheniensis

Salvia ballotaellora

Pin oak Red oak Live oak Staghorn sumac Allegheny blackberry Shrubby blue salvla

Kudzu

Californ!a

scrub oak

Spike Dry Flowable applied at the rate of 6.0 pounds per acre will control the following species.

Acer macrophyllum Acer platanoides Acer saccharinum Baccharis spp. Cornus Ilorida Fraxinus pennsylvanica Gaultheria shallon Juniperus virginiana Laniana camara Liriodendron tulipitera Melaleuca guinguenervia Pinus bankslana Pinus echinata Pinus resinosa Pinus virginiana Plalanus occidentalis Prunus serotina Quercus alba Rubus laciniatus

Rubus occidentalis Schinus terebinthilollus

Binleal maple Norway maple Silver marte Groundsel tree Flowering dogwood Green ash Salal

Eastern redcedar Lantana Tullpiree Melaleuca Jack pine Shortleaf plne Red pine Virginia pine American sycamore Black Cherry White oak Evergreen blackberry

Black rasoberry Brazillan peppertree

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Spike Dry Flowable applied at the rate of 7.0 pounds per acre will control the following species.

Acer circinatum Arctostaphylos patula Ceanothus cuneatus Ceanothus leucodermis .

Greenleaf manzanita
Wedgeleaf ceanothus
Whitethorn
chaparral
Cockspur hawthorn
Russtanolive
White ash
Privet
Laurel sumac
Tallowiree
Common greenbrier
Chinese elm
Slippery elm

Vine maple

Carlaegus crus-galll Elaeagnus angustilolla Fraxinus americana Ligustrum spp. Rhus laurina Saplum sebilerum Smilax rotundilolla Ulmus parvilolla Ulmus rubra

Broadcast Application

Apply Spike Dry Ftowable in 15 to 150 gallons of water per acre with any properly calibrated herbicide sprayer. Check the sprayer before and during use to insure proper calibration and uniform application. Add the recommended amount of Spike Dry Flowable to clean water in the spray tank during the lilling operation. Material must be kept in suspension at all times by constant agitation. Agitate by mechanical or bypass (hydraulic) means in the spray tank. If bypass or return agitation is used, it should terminate at the bottom of the tank to minimize loaming.

For Irealing small areas, a tank type hand sprayer may be used. Before application, determine the amount of water and chemical necessary to cover uniformly the area to be treated. Shake or stir frequently.

Do not apply broadcast applications of Spike Dry Flowable where forage or maintenance of a grass cover is desired.

Banded Application

Spike Dry Flowable is recommended for the control of woody plant species in noncropland areas (such as utility, railroad, and ploetine rights-of-way, ditchbanks and lence rows) by application of a series of parallel bands to the soil surface, individual bands should be spaced at intervals from 4 to 10 feet and at the currently labeled rate range of 2.5 to 7.0 pounds per acre depending on the woody species to be controlled. Actual herbicide bands should be kept as narrow as possible during application to achieve minimal injury or control of herbaceous vegetation. Apply Spike Dry Flowable to the soil surface in 5 to 75 nations of water per acre in a series of parallel bands with spacing between bands ranging from 4 to 10 feet, in areas such as brush intested fence rows on utility rights-of-way, a single band may be applied. Control Is dependent upon root systems intercepting bands. Therefore larger stems should be treated individually when using single bands.

Band spacing should be selected based on the size of the woody plants in the area to be treated and the amount of injury or control of herbaceous vegetation that can be loterated.

Where control of young or seedling woody plants is desired, bands should be spaced closer together. This will achieve maximum exposure to their limited root systems. Where larger more mature woody species

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are to be controlled, bands should be spaced at the wider end of the recommended spacing range.

In addition to allowing adequate exposure of the more extensive root systems of these larger woody species for control, use of the wider spacings will further raduce injury or control of herbaceous vegetation in the area of treatment.

Within the treated band nearly all vegetation, woody and herbaceous, will be killed. Some herbaceous vegetation close to the treated band with roots extending into it may be severely injured or killed. However, since herbaceous species land to have restricted root systems, most species outside the treated band will not be affected. Banded applications in areas of sleep terrain should be applied across existing slopes in order to prevent soil erosion.

Apply with equipment designed to deliver the spray uniformly in the bands. To maintain the integrity of the individual herbicide bands, straight stream nozzles filled with internal stabilizing vanes or their equivalent are recommended. Operating pressures should also be kept as low as will provide uniform delivery of the spray solution. Pressures in the range of 10 to 40 psi should be adequate. Pressures in excess of 40 psi will lend to cause the individual bands to break up.

When applications are made in an area where nozzles are elevated above the soil surface more than 5 feet, breakup of the individual spray streams may occur. If conditions do not permit delivery of infact spray streams to the soil surface, this method of application should not be used.

Fill the spray tank half-full of water. Start agitation, and continue during entire mixing and spraying operation. Add the required amount of Spike Dry Flowable and allow it to mix thoroughly white completing the spray tank filling. If hand held or back pack type sprayers are used, shake vigorously after filling and periodically during application to maintain product suspension. A master shut-off switch for the entire spraying system and nozzle check valves are recommended on commercial spray equipment.

Material must be kept in suspension at all times by continuous agitation. Agitate by mechanical or bypass (hydrautic) means in the spray tank. If bypass or return agitation is used, it should terminate at the bottom of the tank to minimize loaming. Check the sprayer frequently before and during use to insure proper callbration and uniform application.

Individual (Spot) Application

Spike Dry Flowable may be applied in high or low volumes of water to selectively control individual woody plants. Recommended rates will vary depending upon site conditions with the higher rates needed for difficult to control species, large plants, heavier solls, fall applications and cut brush. Consult your local Efanco Spike distributor to determine the best rates for your location.

For high volume applications, mix 1 pound of Spike Dry Flowable in enough water to make 10 gallons of solution. Apply 10 ounces of material to the soil per every 2 to 4 inches of stein diameter.

For low volume applications, mlx 1 pound of Spike Dry Flowable in enough water to make 1 gallon of solution. Apply 1 ounce of material to the soil per every 2 to 4 inches of stem diameter.

When treating large stems, apply the multiple treatments in even spacing around the stem.

For applying Spike Dry Flowable in banded or individual plant treatment, two pieces of equipment are suggested; the Solo Model 425 back pack sprayer for both banding and individual plant treatment and the Spot Gun for individual plant treatment.

The Solo sprayer is prepared for spraying by adding the pre-sturried contents of a 4 pound bag of Spike Dry Flowable and water to the lank. Fill to capacity with additional water and shake vigorously. Equip the Solo sprayer with a 0003-SS straight stream nozzle and the Solo pressure regulator with the green (10 psi) pressure limiting spring. To band Spike Dry Flowable at 5 pounds per acre, walk at 3 mph (264 feet per minute) with the Solo on continuously and space the bands 5 feet apart. Adjust the rate and walking speed according to the brush species and conditions encountered. For individual plant treatment with the Solo, apply a 1.5 second shot for every 1 to 2 inches of stem diameter at the base of unwanted woody plants.

The Spot Gun is prepared for individual plant treatment by mixing 2 pounds of Spike Dry Flowable in sufficient water to obtain 1 gallon of spray solution. Set the Spot Gun to deliver 8 millilliers of this solution for every 1 to 2 inches of stem diameter at the base of the unwanted woody plants. For application on sleep

slopes or other sensitive areas, the Spot Gun can be equipped with a soil probe to allow injection of the Spike Dry Flowable solution beneath the soil surface. Placement at a soil depth of 2 to 4 inches will eliminate any surface movement and reduce injury to herbaceous vegetation.

At the prescribed rates, a 4 pound bag of Splke Dry Flowable will treat approximately 950 stems 1 to 2 inches in diameter. Because of its non-volatile nature and low potential for drift this Spike application technique can be used for treating unwanted woody plants growing on non-cropland areas adjacent to sensitive crops. (See label precautions.) A white spot should be visible at the base of each treated stem which should aid in inspection of the completed work.

Precaution: Do not use Spike Dry Flowable in this manner in any area where destrable species are in the vicinity of the plants to be eliminated. A small amount of Spike Dry Flowable in contact with the roots of destrable trees or other woody species may cause severe injury or death. The roots of such plants may extend far beyond their drip lines.

Spike Dry Flowable will injure or control other herbaceous vegetation in the treated area. Therefore, do not apply where such injury cannot be tolerated. See the list of herbaceous vegetation controlled by Spike Dry Flowable under the Total Vegetation Control section of this booklet.