SPIKE[®] Dry Flowable

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

Airport runways
Utility substations and
rights-of-way
Tank farms
Railway roadbeds and
and ballast
Railroad rights-of-way
Road shoulders where no
vegetation is desired
Under asphalt and concrete
pavements where no
future landscaping
is planned

At the base of highway
guardrails, signposts,
and markers
At the base of transmission
towers and poles
Around industrial buildings

Lumberyards Railroad yards Ditchbanks Firebreaks Fence rows

ACCEPTED

OCT 2 2 1984

Under the Fe is at F. emps. Tangers is an i Ro lentice in Act, as am so led, for the positioned registered under EPA Rog. No. 1471-147

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

Active ingredient:

Contains 3.4 pounds active ingredient per 4 pound bag. SPIKER the registered trademark for Elanco Products tebuthiuron.

WARNING: KEEP OUT OF REACH OF CHILDREN. See back panel for additional caution statements.

Net Weight 4 Pounds

EPA Reg. No. 1471-

Precautionary Statements

WARNING

Human: Harmful if swallowed. Avoid contact with skin, eyes or clothing. Avoid inhaling dust from product. In case of contact, flush with water.

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

Storage and Disposal: The herbicidal properties of SPIKE Dry Flowable require caution in handling, storage and transportation of this product. Do not contaminate food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

Dispose in an incinerator or land fill approved for pesticide containers or bury in a noncropland area away from desirable:

plants, trees and water supply.

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The manufacturer makes no warranties, 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. Failure 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.

Elanco Products Company - A Division of Eli Lilly and Company Indianapolis, IN 46285, U.S.A.

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 DESIRABLE

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, SHRUB OR OTHER DESIRABLE VEGETATION

MAY CAUSE SERIOUS INJURY OR DEATH TO THE ENTIRE PLANT.

AN ARBORICULTURIST (TREE EXPERT) SHOULD BE CONSULTED TO HELP YOU TO DETERMINE IF THE AREA OF PROPOSED APPLICATION IS FREE OF ALL ROOTS OF DESIRABLE VEGETATION. THE EFFECT OF SPIKE DIV Flowable ON DESIRABLE VEGETATION MAY BE IRREVERSIBLE AND ITS PRESENCE IN THE SOIL MAY PREVENT GROWTH OF OTHER DESIRABLE VEGETATION FOR SOME YEARS AFTER APPLICATION.

READ THE ENTIRE LABEL BEFORE USING SPIKE Dry Flowable TO DETERMINE IF THIS PRODUCT IS SUITABLE FOR THE DESIRED PURPOSE.

Do not use SFIKE Dry Flowable on areas such as walks, driveways, streets, lawns, patios, tennis courts, swimming pools, cemetegies, or other landscaped areas, or under asphalt or concrete pavement where tuture 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 VATER 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 SEALANT IS USED. DRIFT OR ANY FORM OF PRODUCT MOVEMENT FROM TREATED AREAS MAY CAUSE DAMAGE TO ANY VEGETATION TO WHICH TREATMENT IS NOT INTENDED.

Ditchbank Usage - Do not apply SPIKE Dry Flowable to any portion of the ditchbank 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 ditches 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 EMPTY 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 grass cover is desired. Injury to most herbaceous perennials is reduced if SEIKE Dry Flowable is applied when this vegetation is dormant.

DIRECTIONS FOR USE: Read Ali Directions Carefully Before Applying.

TOTAL VEGETATION CONTROL

SPIKE Dry Flowable is a preemergence and postemergence herbicide for total control of vegetation in such honorcopland areas as: airport runways, utility substations and rights-of-way, and concrete pavements where no future landscaping is planned, at the base of highway guardiails, sign posts and markers, at the base of transmission towers and poles, around infustrial buildings, lumberyards, railroad yards, ditchlanks, firebreaks, and formerows.

For total vegetation control in areas my treated the previous cut m with SPIKE bry Flowable or other residual herbicites, WFLY CEIFE.

Dry Flowable prior to or just after emergence of pratticus follows:

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

• •	
Alfal fa	Hemlock, poison
Aster, heath	Henbit
Aster, white heath	Honeysuckle, Japanese
Barley, little	Horseweed
Bedstraw	Knapweed
Bluegrass, annual	Kochia
Bluegrass, Kentucky	Lambsquarters
Bouncingbet	Lupine
Bromegrass, downy ,	Medic, black
Bromegrass, ripgut	Morningglory
Bromegrass, smooth	Mullein, common
Broomsedge	Nightshade, silverleaf
Buffelgrass	Oat, wild
Burclover	Panicum, Texas
Buttercup, smallflower	Pepperweed, Virginia
Camphorweed	Pigweed
Carrot, Wild	Plantain, buckhorn
Catsear, spotted	Puncturevine 5
Cheat	Ragweed, glant
Chickweed	Raspberry, red
Clover, red	Ryegrass, Italian
Cocklebur	Sedge, annual
Creeper, Virginia	Shepherdspurse
Crowfootgrass	Sida, prickly

Dock, curly	Sowthistle, annual
Dogfennel	Spikeweed
Fescue	Spurge
Fescue, rattail	Spurge, spotted
Fiddleneck, coast	Starthistle, yellow
Filaree	Strawberry
Filaree, redstem	Sunflower, common
Fleabane, annual	Telegraphplant
Foxtail	Timothy
Gaillardia, rosering	Trumpetcreeper
Geranium, Carolina	Velvetgrass
Goldenicd	Vetch
Grape:	Witchgrass
Grape:	Witchgrass

At 7.0 pounds per acre, SFIKE Dry Flewable will control the following:

Gumweed

Awngrars, triple	Ivy, poison	
Farley, foxtail	Read, common	
Eromegrass, Capanerse	Sandkur, field	
Canarygrant, reed	Omaitweed, owing	•
Carpetweed	Sowthistle, perennial	••••
Whi may	Spurge, prostrate	
Simplest 11. Someth	Cumac, staghern	
	1 Weet oldver, white	

Barnyardgrass

Oxtongue, bristly

Crabgrass

Poorjoe

Itchg: ass

Furslane, common

Johnsongrass, seedling

Ragweed, common

Lovegrass

Saltbush

Orchardyrass

Sedge bull

At 18.75 pounds per acre, SPIKE Lry Flowable will control the following:

bermudagrass

Leckingglass, Venus

Cudweed

Vareygrass

Dallisquase

For the <u>maintenance of total yeartain</u> points I in noncreptand areas <u>east of the Focky Mountains</u> which were treated the previous season with SFIEE bry Fl wakle or other recribed herbroidely digitally. SFIEE bry Flowable provide or just after emergence of planting follows: (Come of the species lister may show erration on the time between application and weed permination.)

At 2.0 pounds per acre, littling El walle will sontrol the following:

Bluegrass, annual

Parsnip, wild

Bluegrass, Kentucky

Pepperweed

Carrot, wild

Pigweed

Chickweed, common

Ragweed, common

Croton

Smartweed, Pennsylvania

Fleabane, annual

Sweetclover

Horseweed

Thistle, Canada

Mullein

Woodsorrel, yellow

Panicum, fall

At 3 pounds per acre, SPIKE Dry Flowable will control the following:

Goldenica

Spurge

In areas of rainfall greater than is in the per year, the 3 pounds per acre maintenance rate should be used: I all weed species listed above.

For the maintenancy of total vegetation, introl in noncreptand areas west of the Ficky Mountains which were treated the previous season with SFIKE try FL wable or other residual herbicides, apply:

SFIKE try F. waite prior to or past after emergence of plants as follower (Come of the species listed may thew erratic control depending in the time fetween apply at a nail weed dermination.)

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

Bassia, fivehook Pigweed

Cheat Plantain

Cudweed Ryegrass, annual

Foxtail Saltbush

Lettuce, prickly Shepherdspurse

Oat, wild Witchgrass

Oxtongue, bristly

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

Buttercup Mustard

Canarygrass, reed Ragweed, western

Knapweed, Russian Starthistle, yellow

Knotweed Telegraphplant

Mallow

At 3.0 pounds per acre, SPIKE Dry Flowable will control the following:

Barley Sida, alkali

Gumweed Smartweed, swamp

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.

In 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.

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 limitations of warranty on all labels.

SURFLANS - oryzalin, Elanco Products Company

Atratol, - atrazine and prometon, Ciba-Geigy

Banvel@ - dicamba, Velsicol Chemical Corporation

Karmexs - diuron, E.I. DuPont De Nemours & Company

Princeps - simazine, Ciba-Geigy

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Roundup - glyphosate, Monsanto Company

Ousts - sulfometuran methyl, E. I. DuPont De Nemours & Company

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

To mix, fill spray tank half full of water. Start agitation and continue during the entire mixing process. Add required amount of SPIKE Dry Flowable and allow to mix when tank mixing. If additional product is a wettable 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 car 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 heibi de 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 Foliage!) 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 refoliations 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 rates 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 optimum results time should be allowed for the brush to resprout to a height of approximately 5 feet prior to application. SPIKE 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 tridentata	(Creosotebush)
Mimosa biuncitera	(Wait-a-minute-bush)

SPIKE Dry Flowable applied at the rate of 2.50 pounds per acre will control the foling species.

Ailanthus altissima	(Tree-of-heaven)
Aloysia lycioides	(Whitebrush)
Artemisia tridentata	(Big sagebrush)
Carya glabra	(Pignut hickory)
Celtis occidentalis	(Western hackberry)
Datura discolor	(Desert thornapple)
Lycium berlandieri	(Berlandier wolfberry) [
Morus rubra	(Red mulberry)
Pinus monticola	(Western white pine)
Pinus spp.	(Pine)
Prunus emarginata	(Bitter cherry)

Khus glabra (Smooth sumac)

Robinia pseudoacacia (Black locust)

Rosa multiflora (Multiflora rose)

Salvia leucophylla (Black sage)

Symphoricarpos orbiculatus (Buckbrush)

Ulmus americana (American elm)

Vaccinium spp. (Blueberry)

Gaylussacia spp. (Huckleberry)

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

> Abies balsamea (Balsam fir)

Acacia farnesiana (Huisache)

Acer saccharum (Sugar maple)

Alnus rugosa (Speckled alder)

Betula populifolia (Gray birch)

Carya texana (Black hickory)

Celtis pallida (Granjeno)

Condalia obtusifolia (Lotebush condalia)

Ilex vomitoria (Yaupon)

Larix laricina (Tamarack)

Picea glauca

(White spiuce)

Populus balsamifera (Baisam poplar)

Populus deltoides (Eastern cottonwood) .

Quercus douglasii (Blue Oak)

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Quercus marilandica (Blackjack oak)
Quercus stellata (Post oak)
Salix spp. (Willow)
Schaefferia cuneifolia (Desert yaupon)
Spiraea tomentosa (Hardhack)

Ulmus alata

Eysenhardtia texana

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

(Winged elm)

Acacia berlandieri (Gua llo) Acacia greggii (Catclaw acacia) Acacia rigidula (Blackbrush acacia) Acacia tortuosa (Twisted acacia) Acer negundo (Boxelder) Adenostoma fasciculatum (Chamise) Alnus rubra (Red alder) Campsis radicans (Trumpetcreeper) Carya ovata (Shagbark hickory) Cercocarpus betuloides (Birchleaf mountainmahogany) Colubrina texensis (Texas colubrina) Condalia obovata (Bluewood condalia) Cornus drummondii (Roughleaf dogwood; """ Crataegus spp. (Hawthorn)

(Texas kidneywood)

Fagus grandifolia (American beech) Jatropha dioica (Leatherstem) Leucophyllum frutescens (Cenizo [Texas silverleaf]) Liquidambar styraciflua (Sweetgum) Parthenocissus quinquefolia (Virginia creeper) Populus grandidentata (Bigtooth aspen) Porlieria angustifolia (Guayacan) Prunus virginiana (Common chokecherry) Pseudotsuga menziesii (Douglas fir) Pueraria lobata (Kudzu) Quercus dumosa (California scrub oak) Quercus palustris (Pin oak) Quercus rubra (Red oak) Quercus virginiana (Live oak) Rhus typhina (Staghorn sumac) Rubus allegheniensis (Allegheny blackberry)

SPIKE Dry Flowable applied at the rate of 6.00 pounds per acre will control the following species:

(Shrubby blue salvia)

Salvia ballotaeflora

Acer macrophyllum (Bigleaf maple)
Acer platanoides (Norway maple)
Acer saccharinum (Silver maple)

Baccharis spp. (Groundhel tree)

Cornus florida (Flowering dogwood)

Fraxinus pennsylvanica (Green ash)

Gaultheria shallon (Salal)

Juniperus virginiana (Eastern redcedar)

Lantana camara (Lantana)

Liriodendron tulipifera (Tuliptree)

Melaleuca quinquenervia (Melaleuca)

Pinus banksiana (Jack pine)

Pinus echinata (Shortleaf pine)

Pinus resinosa (Red pine)

Pinus virginiana (Virginia pine)

Platanus occidentalis (American sycamore)

Prunus serotina (Flack Cherry)

Quercus alba (White oak)

Rubus laciniatus (Evergreen blackberry)

Rubus occidentalis (Elack raspherry)

Schinus terebinthitolius (Frazilian peppertree)

SPIKE Dry Flowable applied at the rate of ".0 pounds per agre will control the following species:

Acer circinatum (Vine maple)

Arctostaphylos patula (Greenleef manzanita)

Ceanothus cuneatus (Wedgeleaf ceanothur)

Ceanothur leucolerris

Crataegus cruz-galli

El magnus angustifolia

Fraxinus americana

Ligustrum spp.

Khus laurina

Sapium sebiterum

Smilax rotundifolia

Ulmus parvifolia

Ulmus rubra

(Whiteth in chaparral)

(Seckspur hawthorn)

(Russianolive)

(White ash)

(Frivet)

(Laurel sumac)

(Tallowtree)

(Common greenbrier)

(Chinese elm)

(Slippery elm)

Broadcast Application

Apply SFIKE Dry Flowable in 15 to 150 jallons of water per acre with any properly calibrated herbicide sprayer. Theck the sprayer leftere and during use to insure proper calibration and uniform application. Add the recommended amount of SFIKE Dry Flowable to clean water in the spray tank during the filling operation. Material must be kept in suspension at all times by constant aditation.

Agitate by mechanical or hypas. (hydraulis) means in the spray tank. If bypass or return agitation is smed, it should terminate as the bettom of the tank to minimize flaming.

For treating 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 SFIKE 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 pipeline rights-of-way, ditchbanks and fence 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 gallons 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 infested 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 of control of herbaceous vegetation that can be tolerated.

Where infinior young is seed,ing woody plants is desired, hands should be spaced closer together. This will achieve maximum exposure to their limited in topystems. Where larger more mature woody species 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 reduce 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 tend to have restricted root systems, most species outside the treated band will not be affected. Banded applications in areas of steep teriain should be applied across existing slopes in order to prevent soil erosion.

Apply with equipment designed to deliver the spray emit inly in the bands. To maintain the integrity of the individual herbicide bands, straight stream nounles fitted with internal stabilizing vanes or their equivalent are recommended. Operating precisive 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. Fremules, in expense 1.4 $_{\odot}$ p. 1 will tend to saume 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, freakup of the individual spray streams may occur. If conditions denot permit delivery of intact 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 SHEE bry Flowable and allow it to mix thoroughly while completing the spray tank filling. If hand held or back pack type sprayers are used, snake vigor usly after filling and periodically during application to maintain product suspension. A master shut-off switch for the entire spraying system and nomine check valves are recommended on commercial spray equipment.

Material must be kept in imagenous not all times by continuous additation. Additate by mechanical or bypace (hydraulic) reason in the apray tank. If bypace is retain initiat, non-uned, it should terminate at the fitter to the tank to enhance framing, these the operager frequently before and darks now to incure proper tallbration and unit in 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 soils, fall applications and cut brush. Consult your local Elanco 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 stem diameter.

For low volume applications, mix 1 jound 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-sharried contents of a 4 pound bag of SFIKE Dry Flowable and water to the tank. Fill to capacity with additional water and shake vigorously. Equip the Solo sprayer with a 0003-SS straight stream

nozzle and the Solo presture regulator with the green (10 psi) pressure limiting spring. To hand SPIKE Dry Flowable at 5 pounds per acre, walk at 3 mph (264 feet per minute) with the Solo on continously 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 or 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 a milliliters of this solution for every 1 to 2 inches of stem diameter at the base of the unwanted woody plants. For application on steep slopes or other sensitive areas, the Spot Gun can be equipped with a soil probe to allow injection of the SFIKE Lry 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.

base of each treated stem which should and in inspection of the completed work.

CAUTION: DO NOT USE SPIKE Dry Flowable IN THIS MANNER IN ANY AREA WHERE DESIRABLE SPECIES ARE IN THE VICINITY OF THE PLANTS TO BE ELIMINATED. A SMALL AMOUNT OF SPIKE Dry Flowable IN CONTACT WITH THE ROOTS OF DESIRABLE 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.

SPIKEs - tebuthiuron, Elanco Products Company

4/27/84

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