



ID 5955



TM

ACCEPTED

SEP 1 0 1987

Under the Federal Insecticide, Fungicide, and Rodonticide Act, as amended, for the pesticide

registered under EPA Reg. No/

80W

Net Weight 4 Pounds

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

Around industrial buildings
 Lumberyards
 Railroad yards

- Airport runways
 Utility substations and rights-of-way
 Tank farms

- Tank tarms
 Railway roadbeds & ballast
 Railway roadbeds where no vegetation is desired
 Under asphalt and concrete pavements where no future landscaping is planned
 At the base of highway guardrails, signosts, and markers
 At the base of transmission towers and poles

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

Not For

Use

Residential

Active Ingredent [5-(1,1-dimetrylethyl)-1,3,4thadact-2-yi-N/A-dimetrylethyl)-1,3,4thadact-2-yi-N/A-dimetrylethe
Ingredents
Content 3.2 pounds active ingredient per 4 pound bag
"Spilke"—the registered trademark for Elanco Products tebuthuron

Keep Out of Reach of Children.

Caution

See back panel for additional precautionary statements.

EPA Reg. No. 1471-97

• Ditchbanks

Firebreaks
 Fence rows

EPA Est. 477-TX-1

See Booklet on Bottom of Bag for Complete Directions for Use.



BG 3415 AMB

Directions for Use Read All Directions Carefully Before Applying.

See Booklet on Bottom of Bag for Complete Directions for Use and Precautions.

Precautionary Statements

Keep Out of Reach of Children.

Hazards to Humans and Domestic Animals CAUTION

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

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 80W 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: Completely empty bag into application equipment. Do not reuse. Then dispose of empty bag in a sanitary landfill, away from desirable plants, trees and water supply, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

The manufacturer makes no warranties, express or implied, concerning this product or its use which extend beyond the description on the labet. All statements made concerning this product apply only when used as directed. Spike 80W 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 utjury. Elanco expressly disclaims any warranty, either express or implied, for the use of Spike 80W, alone or in combination with other products, when that use is not in strict compliances with Elanco's written recommendations.

Elanco Products Company • A Division of Eli Lilly and Company Indianapolis, IN 46285, U.S.A. FN 3002

Sea Booklet on Bottom of Bag for Complete Directions for Use.

ELANCO "



Not For Residential Use A preemergence and postemer herbicide for total control of bruand weeds

Active Ingradiant:

tebuihturon* N-[3,-1,1-dimethylethyl)-1,3,4thiadictol-2-yi-N-N-dimethylures
forti ingradiant
Contains 20 pounds scilve ingradiant per 25 pour

Spike—the registered trademark for Elanco Pro
tebuihturon

EPA Reg. No. 1471-97
Elanco Products Company
A Division of Ell Lilly and Company
Indianapolis, IN 46285, U.S.A.

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Exercises revised Hovember 8, 1984 Pt 2155 AMP

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Precautionary Statements

Keep Out of Reach of Children.

Hazards to Humans and Domestic Animals CAUTION

Harmful if swallowed. Avoid contact with skin, eyes or

clothing. Avoid inhaling dust from product in case of contact, flush with water.

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 80W 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, away from desirable plants, trees and water supply, or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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Precautions



Spike 80W 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 80W 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 (free 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 80W on desirable vegetation may be irreversible and its presence in this soil may prevent growth of other desirable vegetation for some years after application.

Read the entire label before using Spike 80W to determine it this product is suitable for the desired purpose.

Do not use Spike 80W on areas such as walks, driveways, streets, lawns, patios, 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 destrable vegetation may extend. Roots of trees, shrubs, and other destrable vegetation may

extend far beyond the drip line of the plant's branches.

Avoid nonlarget 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.

Dilichbank Usage—Do not apply Spike 80W to any portion of the dilichbank that will come into direct contact with water as movement of Spike 80W 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 trigition or potable water. Keep from contact with other posticides and seeds.

Thoroughly clean all traces of Spike 80W 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 5 pounds per acre or less of Spike 80W. In areas receiving band or individual plant treatments with 5 pounds per acre or less of Spike 80W, grass may be cui for hay one year after application.

Spike 80W may injure or suppress certain herbaceous vegetation in the treated area. Therefore, do not

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Do not apply SPIKE 80W through -any type of irrigation system.

apply where such injury cannot be tolerated. Do not apply broadcust applications of Spike BOW where for- " age or mainty nance of a grass cover to desired, intury to most he Luceous perennials is reduced if Spike 80W is applied when this vegetation is dormant.

 Directions for Use Read All Directions Carefully Before Applying. -

Total Vegetation Control

Spike 80W is a preemergence and postemergence herbicide for total control of vegetation in such noncropland areas as: airport runways, utility substations and 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 guardralis, sign posts and markers, at the base of transmission towers and poles, around industrial buildings, lumbervards, railroad vards, dilchbanks, firebreaks, and fence rows.

For total vegetation control in areas not treated the pravious season with Spike 80W or other rusidual herbicides, apply Spike 80W prior to or just after emarcence of plants as follows:

At 5 pounds per acre, Spike 80W will control the following:

Alialia Aster, heath Asier, while heath Barley, little Badstraw Bluegrass, annuai Hemlock, poison Hanbii Honeysuckle, Japanesu : Horseweed Knapweed

Bluegrass, Kentucky Bouncinabel Bromegrass, downy Bromegrass, ripout Bromeorasa, amooth Broomsadoa Bullelgrass Burclover Buttercup. smalllower Camphorweed Carrol, wild Catsear, spotted Cheat Chickwood Clover, red Cocklebur Creeper, Virginia Crowlootgrass Dock, curly Doglennel Fescue Fescue, rattall Fiddlenack, coast Filaree Filaree, redsiem Fleebans, annual Foxtail Galilardia. rosering Geranlum. Carolina Goldenrod Grape Gumweed

Kochla Lambsquarters Lupine Medic, black Morningglory Mulleln, common Nightshade. silveriest Oal, wild Panicum, Texas Pepperweed. Virolnia Pigweed Plantain, buckhorn Puncturevine Ragweed, glant Raspberry, red Ryegrass, Italian Sedge, annual Shepherdspurse Sida, prickly Sowihislie, annual Spikeweed Spurga Spurge, spotted Starthistle. wolley Strawberry Sunitower, common Telegrapholant Timothy Trumpéloresper Velvelorass Veich Witchgrass

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At 7.5 pounds per acre, Spike 80W will control th following:

Awngrass, triple Barley, loxiall Bromegrass, Japanese Canarygrass, reed

Carpuiweed Chicory

Cinqueloil, common

lvy, polson Reed, common Sandbur, fleld Smartweed, swamp Sowihistie.

perennial Spurge, prostrate Sumac, staghorn Sweetclover, white

Oxtongue, bristly

Pursiane, common.

Ragw-sed, common

Poorios

Sallbi.sh

At 10 pounds per acre, Spike 80W will control the following:

Barnyardgrass Craborass Itchorass

Johnsongrass, seedling Lovegrass

Orchardgrass

Sedge bull At 20 pounds per acre, Spike 80W will control the following:

Bermudagrass Cudweed

Lookingglass, Venus Vaseygrass

Oallisgrass.

For the maintenance of total vingetation control in noncropland areas east of the Rocky Mountains which were treated the previous season with Spike 80W or other residual herbicides, apply Spike 80W 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 2 pounds per acre, Spike 80W will control the following:

Bluegrass, annual Bluegrass, Kentucky Carrol, wild

Chickweed, common

Croton Fleabane, annual Horseweed

> Mullein Panicum, fail

Smartweed. Pennsylvania Sweetclover Thistle, Canada Woodsorrel, yellow

Ragweed, common

Parsnip, wild

Pepperweed

Pigweed

At 3 pounds per acre, Spike 80W will control the following:

Goldenrod

Spurge

in areas of rainfall greater than 25 inches per year. the 3 pounds per acre maintenance rate should be used for all wired 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 80W or other residual harbloides, apply Solke 80W 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 pourds per acre, Spike 80W will control the following:

Bassia, livehook Cheat Cudweed Foxtail Lettuce, prickly

Pigweed Plantain Ryegrass, annual

Saltbush Shepherdspurse

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Oal wild

Witchgrass

Oxlongue, bristly

At 2 pounds per acre, Spike 80W will control the tollowing:

Buttercup

Mustard

Canarygrass, reed Knapweed Russian Knolweed

Ragweed, western Starthistle

Mallow

yellow Telegraphplant

At 3 pounds per acre. Splke 80W will control the following:

Barley

Slda, alkali

Gunweed

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 80W 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 80W 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 80W and place it in the primary weed seed germination zone.

To maximize performance under a variety of conditions, Spike 80W is recommended for use in lank-mix 10

combination with any of the following products: ami-Irola, Alratol® 80W, Banvel® 720, Banvel® W.S., Karmex® 80W, MSMA, paraquat, Princep® 80W, Roundup®, Surllan® 75W, 2,4-D or Oust®. Where applications are made to existing vegetation, the conlact or burning properties of paraquat or MSMA provide the rapid top kill while Spike 80W gives the residual long-term control desired. Applications to areas which are intested with certain difficult to control perennial weeds (such as johnsongrass, bermudagrass, quackgrass, horsetall, bindweed, dandellon or nutsedge) will benefit from lank-mixing Spike 80W with Roundup, amitrole, Banvel, Banvel 720, or 2,4-D. The addition of Surlian, Oust, Karmex, Airalol or Princep will improve Spike's performance on certain annual broadleal and grass weeds such as loxiall kechia, Russian inisile, or seedling johnsongrass.

Read the Spike 80W label and labels of products to be tank-mixed carefully before using. Note all warnings, cautions, precautions, and limitations of warranty on all labels.

Surfan®-organia, Banco Products Company Atratot -- stratkie and prometon Cha-Belgy Banveil -- dicemba, Versicol Chemical Corporation Kaimax -- diuton, E. L. DuPont De Hamoura & Company Princep*—simazine, Ciba-Gelgy Roundup®-glypticiste, Monsanto Company Ousi -Sullameturon melliyl, E. I. DuPont De Hemours & Company

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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 80W and allow to mix when tank mixing. It 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 lank with water. Continuous agliation 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 loaming.

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 80W is an effective herbicide for the control of brush and vines. Spike 80W can be applied either as a broadcast spray, banded application or as an individual plant freatment 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 80W 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 80W can be applied anytime except when the ground is trozen 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 (all in areas of average annual rainfall of greater than 25 inches, higher rates should be used and inconsistent control may result on densely intested brush areas and hard to control species.

Spike 80W 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 foltowing rates of Spike 80W are recommended. These rates can vary depending upon soil type, rainfall, time of application and size/density of the woody plants.

Spike 80W applied at the rate of 1.25 pounds per acre will control the following species.

Haplopappus tenulsacius Burroweed Larroa Iridontata Mimosa bluncitora

Creosolebush Wall-a-minuta-bush

Spike 80W applied at the rate of 2.5 pounds per acre will control the following species.

Allanthus altissima Aloysia lycioldes Artemisia tridentata Carya glabra Cellis occidentalis Datura discolor Lycium berlandieri

Morus rubra

Pinus spp.

Rhus glabra

Rosa multillora

Pinus monticola

Prunus emarginata

Robinia pseudoacacia

Pignut hickory
Western hackberry
Desert thornapple
Berlandier
wolfberr
Red mulborry
Wastern to tile pine
Pine
Bilter cht y
Smooth to mac
Black loc it
Multiflore see
Black se

Tree-of-heaven

Bla sagebrush

Whitebrush

Salvia leucophylla Symphoricarpos orbiculatus Ulmus americana Vaccinium spp. Gaylussacia spp.

Buckbrus American ilm Blueberry Huckleba y

Spike 80W applied at the rate of 3.75 younds per acre will control the following species.

Ables balsamea Acacia farnesiana Acer seccharum Ainus fugosa Betula populitolla Carya fexana Cellis pallida Condalia oblusifolla Ilex vomitoria Larix faricina Balsam li Hulsachi Sugar m le Specklen alder Gray birc Black hit iry Granjenc Lolebush condalla Yaupon Tamaraci Picea glauca
Populus batsamitera
Populus delloides
Quercus douglasti
Quercus maritandica
Quercus stellata
Saliy spp.
Schaelleria cuneliolia
Spiraea Iomeniosa
Ulimus alata

Blacklack oak Post oak Willow Desert yaupon Hardhack Winged elm

White spruce

Blue Oak

Balsam poplar

Eastern cottonwood

Spike 80W applied at the rate of 5 pounds per acre will control the following species.

Acacia berlandie:1 Acacia gregoii Acacia rigidula Acacia tortuosa Acer negundo Adenostoma lasciculatum Alnus rubra Campsis radicans Carya ovala Cercocarpus betuloides Colubrina texensis Condalla oboyata Cornus drummondil Crataegus spp. Eysenhardtia texana Fagus granditolia Jalropha dioica

Leucophyllum Irulescens Liquidambar siyracillua Parthenocissus quinquelolia Guajillo
Calclaw acacia
Biackbrush acacia
Twisted acacia
Boxelder
Chamise
Red alder
Trumpelcreeper
Shagbark hickory
Birchleal

mountain-mahogany
Texas colubrina
Bluewood condalla
Roughleal dogwood
Hawthorn
Texas kidneywood
American beech
Lealherstem

Cenizo (Texas silverieal) Sweeigum

Virginia creeper

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Populus grandidentata Porlieria angustitolia Prunus virginiana Psaudolsuga manziasii oueraria lobata Querous dumosa

Quercus palustris Quercus rubra Quercus virginiana Rhus lyphina Rubus allegheniensis

Salvia ballotaellora

Shrubby blue salvia Spike 80W applied at the rate of 6.25 pounds per acre will control me following species.

Acer mac.ophyllum Acer platanoides Acer saccharinum Baccharis sop. Cornus florida Fraxinus pennsylvanica Gaultheria shallon Juniperus virginiana Lantana camara Lirtodendron lulipitera Melaleuca quinquenervia Pinus banksiana Pinus echinata Pinus resinosa Pinus virginiana Platanus occidentalls Prunus serolina Quercus alba

Rubus lacinialus

Bigleal maple Norway maple Silver maple Groundsel trae Flowering dogwood Green ash Salal Easiern reddedar Lantana Tulipiree Melaleuca Jack pine Shortleal pine Red plne Virginia olna American sycamore Black Cherry White oak Evergreen blackberry

Biglooth aspen

Common chokecherry

Guayacan

Douglas fir

Kudzu

California scrub oak

Pln oak

Red oak

Live oak

Allegheny

Slaghorn sumac

blackberry

Rubus occidentatis Schinus

ierabinihiloilus

Black raspberry Brazilian peppertree

Spike 80W applied at the rate of 7.5 pounds per acre will control the following species.

Acer circinatum Arciosiaphylos patula Ceanothus cuneatus Ceanothus leucodermis

Carlaegus crus-galli Elaeagnus angustitolia Fraxinus americana Ligustrum spp. Rhus laurina Sapium sabilarum

Smilax rolundilolia Ulmus parvilolia Ulmus rubra

Vine maple Greenteal manzanita Wedgeleal ceanothus

Whilethorn chaparral Cockspur hawthorn Russianolive White ash Privet Laurel sumac Tallowirea Common greenbiler Chinese elm Stippery elm

Broadcast Application

Apply Spike 80W 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 80W to clean water in the spray lank during the filling operation. Material must be kept in suspension at all times by constant agitation. Agitate by mechanical or bypass (hydratilic) means in the spray lank. If bypass or return agitation is used, it should terminate at the bottom of the lank to minimize toaming.

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

Do not apply broadcast applications of Spike 80W where torage or maintenance of a grass cover is desired.

Banded Application

Spike 80W is recommended for the control of woody plant species in noncropland areas (such as utility, rallroad, and pipeline rights-of-way, dichbanks and lence rows) by application of a series of parallel bands to the soil surface. Individual bands st ould be spaced at Intervals from 4 to 10 feet and at the currently labeled rate range of 2.5 to 7.5 pounds per acre depending on the woody species to be controlled. / clust herbicide bands should be kept as narrow as lossible during application to achieve minimal injury or control of herbaceous vegelation. Apply Spike 80W to the soil surface in 5 to 75 gallons of water per ac e in a series of parallel bands with spacing between bands ranging from 4 to 10 feet in areas such as brush intested lence 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 tolerated.

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

In addition to attowing 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 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 litted 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 tend to cause the individual bands to break up.

When applications are made in an area where nozzies are elevated above the soil surface more than 5

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teet, breakup of the Individual spray streams may occur. If conditions do not permit the livery of Intact spray streams to the soll surface, this nuethod of application should not be used.

Fill the spray tank half-full of water Start agitation and continue during entire mixing and upraying operation. Add the required amount of Spike 80W and allow it to mix thoroughly while 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 . opt in suspension at all times by continuous agitation. Agitate by mechanical or bypass (hydraulic) means in the spray tank. It bypass or return agitation is used, it should terminate at the bottom of the tank to minimize foaming. Check the sprayer frequently before and during use to insure proper callbration and uniform application.

Individual (Spot) Application

Spike 80W 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, tall 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 80W in enough water to make 10 gallons of solution.

Apply 10 ounces of material to the soll per every 2 to 4 inches of stem diameter.

For low volume applications, mix 1 pound of Spike 80W in enough water to make 1 gation 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 80W in banded or individual plant treatment, two pieces of equipment are suggested; the Sc. to 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-slurrisid contents of a 4 pound bag of Spike 80W and wal r to the tank. Fill to capacity with additional water and shake vigorously. Equip the Solo sprayer with a 1003-SS straight stream nozzle and the Solo pressure regulator with the green (10 psit pressure timilting apring. To band Spike 80W at 5 pounds per acre, wall 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 unweinted woody plants.

The Spot Gun is prepared for individual plant treatment by mixing 2 pounds of Spike 80W in sufficient water to obtain 1 gallon of spray solution. Set the Spot Gun to deliver 8 milliliters of this solution for every 1 to

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2 Inches of stem diameter at the base of the unwanted woody plants. For application on steep stopes or other sensitive areas, the Spot Gun can be equipped with a soil probe to allow injection of the Spike 80W solution baneath the soil surface. Placement at a soil depth of 2 to 4 inches will eliminate any surface movement and reduce injury to herbaceous vegeration.

At the prescribed rates, a 4 pound bag of Spike 80W 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 tabel precautior s.) A while spot should be visible at the base of each reated stem which should aid in inspection of the completed work.

Caulion: Do not use Spike 80W in this manner in any area where desirable species are in the vicinity of the plants to be eliminated. A small amount of Spike 80W 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 lineir drip lines.

Spike 80W 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 80W under the Total Vegetation Control section of this booklet.

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