Page 17 17

Dr. Merlyn L. Jones DowElanco 9002 Purdue Rd. P.O. Box 681428 Indianapolis, IN 46268

Dear Dr. Jones:

Subject: Final Printed Labels

DowElanco Spike 20P Herbicide

EPA Reg. No. 62719-121

Your submission dated June 15, 1993

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.

At the next printing of the label, or within 6 months, whichever comes first, please revise as follows:

- 1. Under the directions for use in ditchbanks, add "Do not apply to ditches used to transport irragation or potable water".
- 2. Under the grazing restrictions, add the additional statement, "If treated area is to be used for haying or grazing, do not apply more than 20 pounds per acre of Spike 20P".

Sincerely yours,

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

Enclosure

BEST AVAILABLE GOPY

Product Data Sheet

Spike 20P 62719-121

Registrant:

DowElanco 9002 Purdue Rd. Quad IV Indianapolis, IN 46268

EPA Approval 02/08/93

Revisions include:

- 1) Addition of a "Groundwater Protection" statement to "Environmental Hazards" section.
- 2) Deleted use on e interior portions of ditchbanks.
- 3) Added Australian pine (Casuarina spp.) to "Woody Plants Controlled" section.

REST AVAILAGE ... SOPY

[Literature Booklet - Spike 20P] [Front Cover of Booklet]

[This copy revised per EPA copy of 2/8/93] [This booklet supersedes 900-001574]

(logo) DowElanco

Spike* 20P

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

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

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

EPA Reg. No. 62719-121 20126

900-00xxxx

(EDITOR NOTE: insert graphic of tree in circle with slash through it. Copy below the tree is: Spike* 20P will kill trees and shrubs. Carefully read the precautions before using.)

*Trademark of DowElanco

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

Specialty Herbicide

ACCEPTED COMPLEXING EPA Letter Datesk

DEC - 7 1993

Under the Follows Inventicide, Fungicide, and Resignificide Act as amended, for the the second

registered water

62719-125 121

[Page 2 of Booklet]

Active Ingredient:

tebuthiuron: N-[5-(1,1-dimethylethyl)-1,3,4-thiadiazol-

2-vil-N.N'-dimethylurea . 20.0%

inert ingredients . 80.0%

Total . 100%

Contains 0.2 pound active ingredient per pound of product.

Precautionary Statements

Hazards to Humans and Domestic Animals

Keep Out of Reach of Children

CAUTION PRECAUCION:

Precaucion al usuario: Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

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 coveralis, a long-sleeved shirt and impermeable gloves when handling 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 vorniting 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 20P herbicide near desirable trees or other woody species. Exposure of even a small part of a plant root system to Spike 20P 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.

Groundwater Protection: 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 send 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-texture/ed soil).
- 3. The water table of an underlying aquiler is shallow.

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.

FIH FR LHEELS US

13

The maximum use rates for Spike 20P in areas described above are:

- Less than 20 inches annual precipitation: Do not apply more than 5 lb/acre Spike 20P.
- Greater than 20 inches annual precipitation: Do not apply more than 10 lb/acre Spike 20P.

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

Splils: To prevent unintended damage to nontarget vegetation, carefully collect and dispose of spilled pellets, whether in storage areas, vehicles or on the soil surface.

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 20P 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: 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 (Bag): 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.

Container Disposal (Canister): Completely empty container - do not reuse. Then dispose of empty container in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Special Use Precautions

Spike 20P is intended for control of unwanted woody vegetation such as trees, shrubs and vines. Spike 20P 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 20P in soil may prevent the growth of trees, shrubs and other broadleaf vegetation for several years after treatment.

Safe use of Spike 20P requires the following guidelines to be carefully followed:

Treatment Setback

Do not apply Spike 20P in the vicinity of desirable plants. Exposure of even a small part of a plant root system to Spike 20P may cause severe plant injury or death.

Note: Plant roots usually occupy an area much larger than the aerial portion of the plant. Treatment is 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 20P or soil containing Spike 20P may be moved from treated areas by flowing water, wind or mechanical means. Do not apply Spike in areas where overland flow of water might move Spike 20P or soil containing Spike 20P from the treated area. Do not apply where wind erosion may cause movement of soil containing Spike 20P 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 20P 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 20P 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 20P is carefully removed before rainfall has moved Spike 20P into the root zone. Apply a waterproof covering to the affected area until cleanup is accomplished. Carefully collect Spike 20P pellets and/or soil containing Spike 20P 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 20P penetration.

General Information

Spike 20P 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 20P into the root zone. Herbicidal symptoms appear most rapidly when applied just before seasonal rainfall. Treated trees and shrubs (brush) exhibit leaf chlorosis and browing 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 20P.

For best brush control results, do not disturb intact plants by such practices as wood cutting, chaining or burning for two years after application of Spike 20P. Resprouting is more likely to occur if plants are disturbed before complete woody plant control occurs.

General Use Precautions

Do not apply Spike 20P to interior ditch banks (areas which slope toward the drainage.

- Maximum Application Rate for Grazing or Haying: If treated area is to be used for grazing or haying, do not apply more than 10 pounds per acre of Spike 20P in areas receiving 20 inches or less average annual rainfall, or more than 20 pounds per acre of Spike 20P 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 20P treatment.
- Effects on Herbaceous Vegetation: Spike 20P 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 20P is applied when vegetation is dormant.
- Do not apply Spike 20P more than once per year.

Factors in Herbicidai Response

Soll Texture, Soil Depth and Organic Matter

Poor control or erratic results are likely to occur when Spike 20P 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 occuring on shallow, coarse or rocky soils with low organic matter is normally increased due to increased soil availability of Spike 20P 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 taller 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 20P at a rate sufficient to control the tallest and most dense woody vegetation in the treatment area.

Application Timing

Spike 20P 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 20P 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 20P 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 20P may cause temporary herbicidal symptoms to appear on perennial grasses. Dormant season application is recommended to minimize herbicidal effects on desirable forage grasses.

Rangeland and Pasture Management Information

There are no label restrictions which require livestock grazing to be delayed following an application of Spike 20P. Spike 20P is a pelleted formulation and does not adhere to to plants. Therefore, significant plant residues do not occur as a result of application. However, at the time of application forage species may be sparcely 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 20P.

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 inadequate 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 20P. 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 20P 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 20P, 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 20P

Individual Plant Treatments

Individual plants, multistem clumps or small stands of woody vegetaton may be hand treated. For individual plant treatments apply Spike 20P 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 20P at a rate of 3/8 oz per 100 sq ft (equivalent broadcast rate = 10 lb/acre).
- In areas receiving more than 20 inches average annual rainfall: Apply Spike 20P at a rate of 3/4 oz. per 100 sq ft (equivalent broadcast rate = 20 lb/acre).

Noncropland

• Apply Spike 20P at a rate of 3/8 oz to 1 1/8 oz per 100 sq ft (equivalent broadcast rate = 10 to 30 lb/acre).

Broadcast Treatments

Spike 20P 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 20P may be applied by ground or air broadcast by/or under the supervision of U.S. Government Agencies.

Broadcast Application Rates

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

Noncropland: Spike 20P may be applied at up to 30 pounds per acre on noncropland.

Woody Plants Controlled by Spike 20P

Rangeland, Pastureland and Noncropland:

Apply Spike 20P at 3.75 to 5 lb per acre on the following woody plant species:

Note: On rangeland and pastureland, apply 3.75 to 5 lb/acre of Spike 20P where a higher degree of control is required (See "Factors in Herbicidal Response" in "General Information" section of this label). Spike 20P may be applied at rates as low as 2.5 per acre on sites with shallow, rocky and coarse textured soils having low organic matter content, or where partial control is desired.

Common Name

Scientific Name

burroweed

Haplopappus tenuisectus

(Density less than 1 per sq ft)

ceniza

Leucophyllum frutescens

creosotebush

Larrea tridentata

mimosa, catclaw

Mimosa pigra

(wait-a-minute-bush)

Paloverde

Cercidium spp.

sagebrush, big sagebrush, sand Artemisia tridentata

Artemisia filifolia

snakeweed, broom

Gutierrezia sarothrae

(Density less than 1 per sq ft)

tarbush

Flourensia cemua

whitethorn

Acacia constricta

Rangeland, Pastureland and Noncropland:

Apply Spike 20P at 2.5 to 10.0 ib per acre on the following woody plant species:

Common Name

Scientific Name

oak, sand shinnery†

Quercus havardii

†Note: A wide rate range is provided to accommodate the broad range of soil and climatic variation which occurs in areas occupied by sand shinnery. Use the lowest application rate only on shallow sands in southern part of species range or where partial control is desired. Use a higher dose in indicated rate range for deeper sands and dunes, and on shinnery varieties with tall and dense growth habit which become more prevalent in the mid-to-northern part of the species range (See "Factors in Herbicidal Response" in "General Information" section of this label).

Rangeland, Pastureland and Noncropland:

Apply Spike 20P at 5 to 10 lb per acre on the following woody plant species:

Common Name

Scientific Name

oak, bigelow[†]

Quercus durandi

(Parital control)

oak, mohr?

Quercus mohriana

(Parital control)

oak, running live†

Quercus virginiana

(Parital control)

whitebrush

Aloysia lycoides

wolfberry, Berlandier

Lycium berlanderi

[†]Note: Use a higher dosage in indicated rate range on tall and dense stands.

Rangeland, Pastureland and Noncropland: Apply Spike 20P at 10 to 20 lb per acre on the following woody plant species:

Common Name acacia, blackbrush acacia, catclaw acacia, twisted alder, speckled[†] apple-of-sodom birch, gray blueberry bluewood (Brazil)

buckbrush cherry, bitter

cottonwood, eastern† dogwood, roughleaf elm, American elm, winged fir. balsamt guajillo guava

hackberry, spiny (granjeno) hackberry, western

hardhack[†] hawthorn huckleberry huisache† koa haole locust, black manzanita maple, sugar† mulberry, red oak, black oak, blackjack oak, blue oak, bur oak, post oak, shrub live

pine† poplar, balsam† rose, Mccartney† rose, multiflora sage, black spruce, white? sumac, dwarf sumac, littleleaf sumac, skunkbush

oak, southern red

oak, white

suimac, staghom tamerack[†] thomapple, desert

yaupon yaupon, desert

sumac, smooth

Scientific Name Acacia rigidula Acacia greggii Acacia tortuosa Alnus rugosa Solanum sodomeum Betula populifolia Vaccinium spp. Condalia obovata

Symphoricarpos orbiculatus

Prunus emarginata Populus dettoides Comus drummondii Ulmus americana Ulmus alata Abies balsamea Acacia berlanderi Psidium guajava Celtis pallida

Celtis occidentalis Spiraea tomentosa Crataegus spp. Gaylussacia spp. Acacia tamesiana Leucaena leucocephalla Robinia pseudoacacia Arctostaphylos spp. Acer saccharum Morus rubra Quercus velutina Quercus marilandica Quercus douglasii Quercus macrocarpa Quercus stellata Quercus turbinella Quercus falcata

Pinus spp. Populus balsamifera Rosa bracteata Rosa multiflora Salvia melitera Picea glauca Rhus copallina Rhus microphylla Rhus trilobata Rhus glabra Rhus typhina Larix laricina Datura discolor llex vomitoria

Quercus alba

Schaefferia cuneifolia TNote: Use a higher dosage in indicated rate range on all sites.

> FF LABELS US

Noncropland only:

Apply Spike 20P at 20 to 30 lb per acre on the following woody plant species:

<u>Common Name</u>

alder, red

Alnus rubra

ash, green[†]

aspen, bigtooth
beech, American
blackberry
blackberry, cutteat[†]

Fraxinus pennsylvanica
Populus grandidentata
Fagus grandifolia
Rubus spp.
Rubus iaciniatus

blackberry, cutteat[†]
boxelder
chamise

Rubus iaciniatus
Acer negundo
Adenostoma fasciculatum

cherry, black
chokecherry, common
colubrina, Texas
covotebush†

Prunus serotina
Prunus virginiana
Colubrina texensis
Baccharis pilularis

creeper, Virginia Parthenocissus quinquefolia

dogweed, flowering Comus florida

douglastir Pseudotsuga menziesii guayacan Porlieria angustifolia hickory, bitternut Caraya cordiformis hickory, black Caraya texana hickory, pignut Caraya glabra hickory, shagbark Caraya ovata huisache Acacia famesiana kidneywood, Texas Eysenhardtia texana

Eysenhardtia texana kidneywood, Texas Pueraria lobata kudzu lantana† Lantana camara leatherstem Jatropha dioica lotebust (condalia) Ziziphus obtusifolia Acer macrophyllum maple, bigleaf Acer platanoides maple, Norway† maple, silver† Acer saccharinum

melaleuca† *Melaleuca quinquenervia* mountainmahogany, birchleaf *Cercocarpus betuloides*

oak, California scrub

oak, live

oak, pin

oak, pin

oak, rod

Ouercus dumosa

Quercus virginiana

Quercus palustrus

oak, red Quercus rubra oak, white Quercus alba

peppertree, Brazilian Schinus terebinthifolius

pine, Austrsalian Casuarina spp. pine Pinus spp.

raspberry, black
salai[†]
Sweetgum
sycamore, American[†]
trumpetcreeper
tuliptree[†]
Rubus occidentalis
Gaultheria shalion
Liquidambar styraciflua
Platanus occidentalis
Campsis radicans
Liriodendron tulipilera

willow Salbx spp.

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

Noncropland only:

Apply Spike 20P at 30 lb per acre on the following woody plant species:

Common Name

ash, white ceanothus, wedgeleaf chaparral, whitethorn

elm, Chinese elm, slippery

greenbriar, roundleaf hawthorn, cockspur manzanita, greenleaf

maple, vine privet

redcedar, eastern Russianolive sumac, laurel tallowtree, Chinese Scientific Name

Fraxinus americana Ceanothus cuneatus

Ceanothus leucodermis

Ulmus parvifolia Ulmus rubra

Smilax rotundifolia Crataegus crus-calli Arctostaphylos patula

Acer circinatum Ligustrum spp. Juniperus virginiana Eleagnus angustifolia

Rhus laurina Sapium sebiferum

Warranty Disclaimer

DowElanco warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label when used in strict accordance with the directions, subject to the inherent risks set forth below. DOWELANCO MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

Inherent Risks of Use

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.

Limitation of Remedies

The exclusive remedy for losses or damages resulting from this product (including claims based on contract, negligence, strict liability, or other legal theories), shall be limited to, at DowElanco's election, one of the following:

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

Dow: Elanco shall not be liable for losses or damages resulting from handling or use of this product unless DowElanco is promptly notified of such loss or damage in writing. In no case shall DowElanco be liable for consequential or incidental damages or losses.

The terms of the "Warranty Disclaimer" above and this "Limitation of Remedies" cannot be varied by any written or verbal statements or agreements. No employee or sales agent of DowElanco or the seller is authorized to vary or exceed the terms of the "Warranty Disclaimer" or this "Limitation of Remedies" in any manner.

Copyright@ 1993 DowElanco

[Bag - Spike 20P] [Front of Bag] [This copy revised per EPA copy of 2/8/93] [This bag supersedes 900-001575]

Page 1

(logo) DowElanco

Spike* 20P

Range and Pasture Management

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

Along highways

Pastureland

· Other noncropland areas

Fence rows

Pipelines

for control of woody

Firebreaks

· Railroad rights-of-way

plant species

Industrial sites
 Ra

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* 20P will kill trees and shrubs. Carefully read the precautions before using.)

Active Ingredient:

tebuthiuron: N-[5-(1,1-dimethylethyl)-1,3,4-thiadiazol-

2-yl]-N,N'-dimethylurea . 20.0%

Inert Ingredients . 80.0%

Total 100%

Contains 0.2 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 booklet.

In case of emergency endangering health or the environment involving this product, call collect 517-636-4400.

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

EPA Reg. No. 62719-121

EPA Est. 39578-TX-1

*Trademark of DowElanco

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

Not For Residential Use

Specialty Herbicide

Net Weight 25 lb

[Back of Bag]

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION PRECAUCION:

Precaucion al usuario: Si usted no lee inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

Causes Eye Irritation · Harmful If Swallowed, Inhaled Or Absorbed Through The Skin

Avoid breathing dust and contact with eyes, skin or cicthing. Use eye protection and protective ciothing such as coveralis, a long-sleeved shirt and impermeable gloves when handling this product. Wash thoroughly with soap and water after handling. Remove contaminated ciothing 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 20P herbicide near desirable trees or other woody species. Exposure of even a small part of a plant root system to Spike 20P 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.

Groundwater Protection: 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-texturered soil).
- 3. The water table of an underlying aquifer is shallow.

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.

The maximum use rates for Spike 20P in areas described above are:

- Less than 20 Inches annual precipitation: Do not apply more than 5 lb/acre Spike 20P.
- Greater than 20 Inches annual precipitation: Do not apply more than 10 lb/acre Spike 20P.

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

Splits: To prevent unintended damage to nontarget vegetation, carefully collect and dispose of spilled pellets, whether in storage areas, vehicles or on the soil surface.

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 20P 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: 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 booklet in pocket of bag for additional precautionary information, Special Use Precautions and Directions for Use.

[EDITOR NOTE: Insert here a fat, squat arrow pointing down]

Directions Enclosed [EDITOR NOTE: Turned at a 20° angle inside a box which has the top, right and bottom sides as bold dotted lines and the left side as a solid line]

20126

[Right Gusset of Bag]

(logo) DowElanco

Spike* 20P

PI 3221884

[Left Gusset of Bag]

(logo) DowElanco

Spike* 20P

PI 3221884

900-00xxxx