

ELANCO

ID 5952

Herbicide Spike® 5G

ACCEPTED

OCT 24 1979

Under the Federal
Fertilizer, Insecticide, and
Herbicide Act,
this product is accepted for the pesticide

EPA Reg. No. 1471-103

**A preemergence and
postemergence herbicide
for total control of vegetation
in such areas as:**



Airport runways	Under asphalt and concrete pavements where no future landscaping is planned	Lumberyards
Utility substations and rights-of-way	At the base of highway guardrails, signposts and markers	Railroad yards
Tank farms	At the base of transmission towers and poles	Ditchbanks
Railway roadbeds and ballast	Around industrial buildings	Firebreaks
Railroad rights-of-way		Fence rows
Road shoulders where no vegetation is desired		

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

Active ingredient:tebuthiuron: *N*-[5-(1,1-dimethylethyl)-1,3,4-thiadiazol-2-yl]-*N,N'*-dimethylurea ... 5%

Inert ingredients ... 95%

Contains 2.5 pounds active ingredient per 50 pound bag

Spike — the registered trademark for Elanco Products tebuthiuron

CAUTION: KEEP OUT OF REACH OF CHILDREN. See back panel for additional caution statements.**Net Weight 50 Pounds**

EPA Reg. No. 1471-103

BG 3493 AMB

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Directions for Use

Read All Directions Carefully
Before Applying

SPIKE® 5G is a nonselective herbicide for controlling a wide range of annual and perennial weeds and grasses and woody plants. It is recommended only for noncropland areas such as airport runways, utility substations and rights-of-way, tank farms, railway, railroad rights-of-way, road shoulders where no vegetation is desired, under asphalt and concrete pavements, at the base of transmission towers and poles, around industrial buildings, lumberyards, banks, firebreaks, and fence rows for the control of most annual and perennial grasses and broadleaved weeds. Effect and rate will not become apparent until the chemical has been carried into the root zone of the weeds by moisture. Control and period. The effectiveness and length of time control will last depend on type of soil, amount of rain, and other conditions.

How to Apply

Use a mechanical spreader or other device which will spread the required amount evenly over the area to be treated. If growth is dense but better control will be obtained when weeds are short or when excess growth is mowed and removed before applying.

When to Apply

Best results will be obtained if applied shortly before or at the time plant growth begins. Rains or thorough watering cause the material to move to the root zone and thus speed up control. Do not use when ground is frozen.

General Weed Control

Uniformly apply 80 pounds SPIKE 5G per acre to control the following weeds:

Ailanthus	Chickweed	Hemlock, poison	Raspberry, red
Aster, heath	Clover, red	Henbit	Rye grass, Italian
Aster, white heath	Cocklebur	Monarda, Japanese	Sedge, annual
Barley, little	Creeper, Virginia	Morone, weed	Shepherdspurse
Bedstraw	Crowfootgrass	Knapweed	Sida, prickly
Bluegrass, annual	Dock, curly	Kochia	Southwest, annual
Bluegrass, Kentucky	Dogfennel	Lambsquarters	Spine weed
Broomrape	Fescue	Lupine	Spurge
Broomrape, downy	Fescue, rattail	Medic, black	Spurge, spotted
Broomrape, rippled	Fiddleneck, coast	Morning glory	Starthistle, yellow
Broomrape, smooth	Flaxweed	Mullein, common	Strawberry
Broomrape, smooth	Flaxweed, redstem	Nightshade, silverleaf	Sunflower, common
Buttercup	Flaxweed, annual	Oat, wild	Telegraph plant
Buttercup, smallflower	Fontana	Panicum, Texas	Thistle, Russian
Camphorweed	Gastard, roasting	Pepperweed, Virginia	Timothy
Carrot, wild	Geranium, Carolina	Pigeon	Trumpet creeper
Catsfoot, spotted	Goldenrod	Plantain, buckhorn	Vetchgrass
Chestnut	Grape	Puccinellia	Vetch
	Gumweed	Ragweed, giant	Witchgrass

Uniformly apply 120 pounds SPIKE 5G per acre to control the following weeds:

Aspen, trembling	Canarygrass, red	Clover, white sweet	Smartweed, swa
Ash, triple	Carpetweed	Hy, poison	Southwest, peren
Barley, foxtail	Chicory	Reed, common	Spurge, prostrate
Broomrape, Japanese	Cinquefoil, common	Sandbur, field	Sumac, staghorn

Uniformly apply 160 pounds SPIKE 5G per acre to control the following weeds:

Barnyardgrass	Johnsongrass, seedling	Oxeye, busy	Ragweed, common
Crabgrass	Lovegrass	Poa, common	Sedg, but
Crabgrass	Orchardgrass	Purslane, common	

Uniformly apply 320 pounds SPIKE 5G per acre to control the following weeds:

Bermudagrass	Dallisgrass	Lookingglass, Venus	Vaseygrass
Cudweed			

Woody Plant Control

Apply SPIKE 5G uniformly to the wood; plant infested area or by individual plant treatment. Application can be made year except when the ground is frozen. Effects are slow to appear and will not become apparent until sufficient moisture SPIKE 5G into the root zone of the target species. The time required to achieve control is dependent on soil type, a depth of species rooting. Some species may go through several defoliations and regrow over a period of approximately prior to dying.

Broadcast Application

Apply SPIKE 5G using a mechanical spreader or other device calibrated to deliver the recommended amount of material treated.

Individual (Spot) Woody Plant Application

Apply SPIKE 5G by hand tossing 4 ounces of the granules around the base of the unwanted individual woody stem. When applying granules by hand. Repeat this process for each unwanted woody plant in the area. CAUTION: DO NOT THIS MANNER IN ANY AREA WHERE DESIRABLE SPECIES ARE IN THE VICINITY OF THE PLANTS TO BE ELIMINATED. AMOUNT OF SPIKE 5G IN CONTACT WITH THE ROOTS OF DESIRABLE TREES OR OTHER WOODY SPECIES MAY CAUSE INJURY OR DEATH. THE ROOTS OF SUCH PLANTS MAY EXTEND FAR BEYOND THEIR DRIP LINES. SPIKE 5G will injure or control other herbaceous vegetation in the treated area. Therefore, do not apply where it is tolerated. See the list of herbaceous vegetation controlled by SPIKE 5G under the Total Vegetation Control section of this label.

Woody Plant Control — Application Rates

SPIKE 5G applied at the rate of 40 pounds per acre will control the following species:
Alnus incana (Tree of heaven)
Alopecurus pratensis (White clover)
Arenaria vulgaris (Mugwort)

SPIKE 5G applied at the rate of 60 pounds per acre will control the following species:
Carya texana (Black hickory)
Quercus macrocarpa (Black jack oak)
Quercus stellata (Post oak)
Symphoricarpos orbiculatus (Rackstraw)

SPIKE 5G applied at the rate of 80 pounds per acre will control the following species:
Acacia berlandieri (Guayule)
Acacia rigidula (Blackbrush acacia)
Acer negundo (Boxelder)
Campsis radicans (Trumpet creeper)
Celtis occidentalis (Western hackberry)
Cercis pallida (Grainier)
Cercis canadensis (Eastern redbud)
Larrea tridentata (Creosote bush)

SPIKE 5G applied at the rate of 100 pounds per acre will control the following species:
Acer macrophyllum (Bigleaf maple)
Alnus rubra (Red alder)
Cornus florida (Flowering dogwood)
Gaultheria phillyifolia (Salal)
Juniperus virginiana (Eastern redcedar)
Pinus echinata (Shortleaf pine)
Pinus virginiana (Virginia pine)
Prunus americana (Bitter cherry)

SPIKE 5G applied at the rate of 120 pounds per acre will control the following species:
Acer glabrum (Vine maple)
Cornus spp. (Dogwood)
Ostrya virginiana (Hawthorn)
Fraxinus americana (White ash)
Hicoria glabra (Sweet gum)
Prosopis juliflora (Mesquite)
Prunus serotina (Black cherry)
Rhus glabra (Smooth sumac)
Rhus typhina (Staghorn sumac)

Quercus nigra (Water oak)
Ulmus americana (American elm)

Ulmus alata (Winged elm)

Myrica cerifera (Southern waxmyrtle)
Rhus copallina (Shining sumac)
Rosa multiflora (Multiflora rose)
Rubus allegheniensis (Allegheny blackberry)

Pseudotsuga menziesii (Douglas fir)
Quercus alba (White oak)
Rubus laciniatus (Evergreen blackberry)
Rubus occidentalis (Black raspberry)

Salix spp. (Willow)
Smilax rotundifolia (Common greenbrier)
Ulmus parviflora (Chinese elm)
Ulmus rubra (Slippery elm)

PRECAUTIONS

 **SPIKE 5G IS INTENDED FOR TOTAL 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 DRIPLINE OF THE BRANCHES AND A VERY SMALL AMOUNT OF SPIKE 5G 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 5G 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 5G TO DETERMINE IF THIS PRODUCT IS SUITABLE FOR THE DESIRED PURPOSE.**

Do not use SPIKE 5G 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 or near field crops. Do not apply on any area into which the roots of desirable vegetation may extend. Do not apply in locations where the chemical may be washed by runoff or sheet erosion in contact with roots of desirable vegetation, as severe injury or death may occur. ROOTS OF TREES, SHRUBS AND OTHER DESIRABLE VEGETATION MAY EXTEND FAR BEYOND THE DRIPLINE OF THE PLANTS BRANCHES.

Ditchbank Usage — Do not apply SPIKE 5G to any portion of the ditchbank that will come into direct contact with water as movement of SPIKE 5G in this water to non target plant species may result in the injury or death of those plants. Do not apply on ditches used for transportation or potable water. Keep from contact with other pesticides and seeds.

Thoroughly clean all traces of SPIKE 5G 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.

HERBACEOUS PERENNIALS (NONWOODY PLANTS)

Do not allow livestock to graze in treated areas. Do not cut forage from treated areas for feeding livestock. SPIKE 5G 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 perennials is reduced if SPIKE 5G is applied when this vegetation is dormant.

CAUTION

Human: Harmful if swallowed. Avoid contact with skin, eyes or clothing. Avoid inhaling dust from product. Wear protective gloves when applying granules to individual woody plants by hand. 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 contaminate water by cleaning of equipment or disposal of wastes.

Storage and Disposal: The herbicidal properties of SPIKE 5G 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 landfill approved for pesticide containers or bury in a noncropland area away from desirable plants, trees and water supply.

The manufacturer makes no warranties, express or implied, concerning this product or its use other than those stated on the label. All statements made concerning this product apply only when used as directed. SPIKE 5G should be applied according to the directions on the label. Failure to do so may result in poor weed control or injury to desirable plants. The manufacturer assumes no liability for any damage or loss resulting from the use of SPIKE 5G in conjunction with other products when such use is not in strict compliance with the label directions.

**Elanco Products Company • A Division of Eli Lilly and Company
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