



SPECIMEN LABEL
REDUCED TO 75%

ESTERON*

BRUSH KILLER

Low-Volatile Brush and Weed Herbicide

For the Control of Most Kinds of Unwanted Trees and Brush, as Well as Annual and Perennial Broadleaf Weeds
on Rangelands, Fencerows, and Industrial Sites by Aircraft or Ground Spraying

ACTIVE INGREDIENTS:

2,4-Dichlorophenoxyacetic Acid, Propylene Glycol Butyl Ether Esters 38.0%
2,4,5-Trichlorophenoxyacetic Acid,
Propylene Glycol Butyl Ether Esters 34.1%

INERT INGREDIENTS: 29.9%

2,4-D Acid Equivalent 22.2% — 2 pounds per gallon
2,4,5-T Acid Equivalent 22.2% — 2 pounds per gallon

E.P.A. Registration No. 464-204

E.P.A. Est. 464-MI-1

PRECAUCION AL USUARIO: Si usted no lee Inglés, no use este producto hasta que la etiqueta le haya sido explicada ampliamente.

TRANSLATION: (TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

KEEP OUT OF THE REACH OF CHILDREN

CAUTION

HARMFUL IF SWALLOWED • MAY CAUSE IRRITATION
Avoid Contact with Eyes, Skin and Clothing
Do Not Cut or Weld Container

In case of an emergency endangering life or property involving this product, call collect
517-636-4400

AGRICULTURAL CHEMICAL
Do Not Ship or Store with Food, Feeds,
Drugs or Clothing

18.93 L / 5 gal

86-1066 PRINTED IN U.S.A. IN JANUARY, 1980.
REPLACES SPECIMEN LABEL 86-1066 PRINTED IN SEPTEMBER, 1979.
DISCARD PREVIOUS SPECIMEN LABELS.
REVISIONS INCLUDE: USES ON INDUSTRIAL SITES AND FENCEROWS
REINSTATED BY EPA.

SPECIMEN LABEL
(BACK)
REDUCED TO 75%

ESTERON^{*}

BRUSH KILLER

Contains Propylene Glycol Butyl Ether Esters of 2,4-D and 2,4,5-T... Total Acid Equivalent: 4 pounds per gallon

FOR TREE, BRUSH AND WEED CONTROL

ESTERON Brush Killer is recommended for control of most species of unwanted woody plants, as well as annual and perennial broadleaf weeds, growing in rangelands, fence rows, and industrial sites. Do not use in forest lands, rights-of-way, or pastures.

Woody Species Controlled:

alder, aspen, bigleaf maple, birch, blackcherry, boxelder, buckbrush, catalpa, chamise, chokecherry, coastalsage, coyotebrush, crabapple, dogwood, elder, elderberry, elm, hawthorn, honeysuckle, kudzu, locust, manzanita, oaks, osageorange, persimmon, poison-ivy, pricklypear cactus, sassafras, sumac, sweetgum, sycamore, tulip poplar, wild cherry, wild grape, wild rose, willow and many others.

Weeds Controlled:

bitterweed, broomweed, croton, dandelion, docks, goldenrod, Kochia, larkspur, locoweed, lupines, marshelder, muskthistle, plantains, ragweeds, vetch, wild carrot and many others.

USE DIRECTIONS

Foliage sprays should be applied during warm weather and when brush and weeds are actively growing. Application under drought conditions often will give poor results. Use low spray pressures to minimize spray drift. Do not apply ESTERON Brush Killer where spray drift may contact nearby susceptible crops or other desirable plants or may contaminate water intended for irrigation or domestic use. Read and follow all Use Precautions given on this label. Do not include adjuvants in sprays unless recommended on this label.

NOTE: If there are uncertainties concerning special local use situations, consult local Extension Service or University Specialists for advice.

PREPARING THE SPRAY

ESTERON Brush Killer in water or oil-water sprays forms an emulsion (not a solution), and separation may occur unless the spray mixture is agitated continuously. Mechanical agitation is recommended. When mixed with oil only, a solution is formed, and after complete mixing, further agitation is not needed.

NOTE: Where oil is recommended, use diesel oil, No. 1 or 2 fuel oil or kerosene. OIL SPRAY: Add ESTERON Brush Killer to the required amount of oil in the spray tank or mixing tank and mix thoroughly. Do not let any water or oil-water mixture get into the product or the product-oil mix, as a gel may be formed.

WATER SPRAY: Fill the spray tank about half full with clean water. Then slowly add the ESTERON Brush Killer and complete filling the tank with the agitator running. Mix thoroughly and continue agitation while spraying.

OIL-WATER MIXTURE SPRAY: With vigorous agitation, 1 gallon of ESTERON Brush Killer will emulsify up to 10 gallons of oil in 100 gallons of spray mixture. First, premix the ESTERON Brush Killer and oil in a separate container. Do not allow any water or mixtures containing water to get into the ESTERON Brush Killer or the premix. Fill the spray tank about half full with water, then slowly add the premix with continuous agitation and complete filling the tank with water. If the premix is put in the tank without any water, the first water added may form a thick "invert" (water in oil) emulsion which will be hard to break. As an alternate procedure, the oil may be added immediately after the ESTERON Brush Killer is mixed in the water, and the spray tank is being filled, but highly vigorous mechanical agitation is required and a poorer emulsion may be formed. The premix method is preferred. With either method, agitation in the spray tank should be continued during spray application.

GROUND APPLICATION DIRECTIONS

Basal Bark Treatment: Brush and small trees can be controlled by spraying the basal 12 to 15 inches of stems and trunks. Use a solution of 4 gallons of ESTERON Brush Killer in 100 gallons of oil (1 pint in 3 gallons of oil) and apply the mixture by knapsack or power equipment to thoroughly wet the indicated area, including the

root collar. Old or rough bark requires more spray volume than young or smooth bark. As only the basal portions of the brush are treated on a spot basis, the total amount of spray applied should not exceed 100 gallons per acre. Use a low pressure coarse spray to avoid spray drift. Apply at any time of year except when water, snow or ice prevents spraying to the ground line. On certain hard-to-kill species such as maple and ash, better control will be obtained using ESTERON 245 herbicide in accordance with its label directions.

Powered Knapsack Basal Treatment: Mix 8 to 14 gallons of ESTERON Brush Killer in oil to make 100 gallons of spray solution. Apply with a portable knapsack mistblower to lower brush stems. Total coverage of stems and root collars is essential for best results. This should require no more than 30 gallons of spray solution per acre. Run knapsack mistblower at 1/4 to 1/3 throttle for best spray delivery and brush coverage. Use a basal nozzle attachment for maximum drift control and do not raise spray nozzle above horizontal position.

Modified Basal or Dormant Cane Treatment: For mixed brush, use 2 to 2 1/2 gallons of ESTERON Brush Killer in 100 gallons of oil. Apply as a drench to the base of the stems and also spray the lower 3/4 of the brush tops to run-off. With root-suckering species such as locust, persimmon, sassafras and sumac, also spray the ground area so that small sprouts that may not be readily visible are treated. Spray at any time of the year but preferably after most of the foliage has fallen since this is not primarily a foliage treatment. Dormant brush of average density and 4 to 6 feet tall may require 150 to 200 gallons of spray per acre for proper coverage.

Frill Treatment: Use a solution of 3 gallons of ESTERON Brush Killer in 100 gallons of oil (1 pint in 4 gallons oil). For trees, usually 5 inches or larger in diameter, make a single hack girdle or frill of overlapping axe cuts or notches completely around the tree as close to the ground as convenient. Spray or pour in as much of the spray mixture as the frilled area will hold without run-off.

Stump and Stub Treatment: Use a solution of 4 to 6 gallons of ESTERON Brush Killer in 100 gallons of oil (1 to 1 1/2 pints in 3 gallons oil) mixed thoroughly. All the bark and exposed roots as well as the cut surfaces should be sprayed until run-down or run-off to the ground line is noticeable. Old or rough bark requires more spray volume than young or smooth bark. Apply at any time of the year except when water, snow or ice prevents spraying to the ground line. For best results treat freshly cut stumps and stubs.

General Weed Control: Use 2 quarts of ESTERON Brush Killer per acre in the amount of water needed for uniform coverage to control bitterweed, broomweed, croton, docks, Kochia, larkspur, locoweed, lupines, marshelder, muskthistle and other broadleaf weeds. For best control, the weeds should be young and growing actively at the time of application.

Control of Chaparral Species: To control chamise, manzanita, coastal sage, ceanothus, coyotebrush, and others, apply 2 to 4 quarts of ESTERON Brush Killer in 15 to 30 gallons of water per acre. A gallon of oil per acre may be included for added effectiveness. For best control the brush must be fully leaved out and growing actively when sprayed. Retreatment may be needed in subsequent years.

Spot Treatment: For Pricklypear Cactus: Use 1 pint of ESTERON Brush Killer in 3 gallons of oil. Spray both sides of pads as well as joints and trunk during the hot summer period.

For Other Brush and Perennial Weeds: Use 1/3 pint of ESTERON Brush Killer in 4 gallons of water and spray to wet foliage. When treating brush also wet the shoots, stems, and bark.

AIR APPLICATION DIRECTIONS

General Weed Control: Use 2 quarts of ESTERON Brush Killer per acre in the amount of water needed for uniform application to control bitterweed, broomweed, croton, docks, Kochia, larkspur, locoweed, lupines, marshelder, muskthistle and other broadleaf weeds. For best control, the weeds should be young and growing actively at the time of spraying.

Control of Chaparral Species: To control chamise, manzanita, coastal sage, ceanothus, coyotebrush, and others, apply 3 to 4 quarts of ESTERON Brush Killer in 5 to 15 gallons of water per acre. A gallon of oil per acre may be included for added effectiveness. For best control the brush must be fully leaved out and growing actively when sprayed. Retreatment may be needed in subsequent years.

Post and Blackjack Oaks: For solid stands, use 3 quarts of ESTERON Brush Killer plus 1 gallon of oil in enough water to make 4 to 6 gallons of spray per acre. Apply when oaks are fully leaved out and soil moisture is adequate for active growth.

Sand Shinnery Oak: Use 1 quart of ESTERON Brush Killer plus 1 gallon of oil in enough water to make 4 gallons of spray per acre. Apply when brush is in full foliage and growing actively.

USE PRECAUTIONS

NOTE: Do not graze dairy animals on treated areas within six weeks after application. Do not graze meat animals on treated areas within two weeks of slaughter.

Do not apply when weather conditions favor drift from areas treated. Do not apply ESTERON Brush Killer directly to, or otherwise permit it to come into contact with cotton, grapes, fruit or ornamental trees, vegetables, flowers or other desirable crop or ornamental plants which are sensitive to 2,4-D or 2,4,5-T herbicides, and do not permit spray mist to drift onto such plants since even minute quantities of the spray, which may not be visible, can cause severe injury during both growing and dormant seasons. Use coarse spray to minimize drift.

Application by aircraft, ground rig or hand dispenser should be carried out only when there is no hazard from spray drift. Do not spray when the wind is blowing toward susceptible crops or ornamental plants. Do not spray when wind exceeds 5 miles per hour. Do not apply in the vicinity of susceptible crops or ornamental plants. Do not use in or near a greenhouse.

With aircraft application, drift can be reduced by applying no less than 5 gallons of spray per acre; by using no more than 20 pounds spray pressure at the nozzle; by using nozzles which produce a coarse spray pattern; and by spraying only when the wind velocity is less than 5 miles per hour. With ground equipment, drift can be reduced by keeping the spray boom as low as possible; by applying no less than 20 gallons of spray per acre; by using no more than 20 pounds spraying pressure with flat fan or flooding flat fan nozzle tips; by spraying only when wind velocity is less than 5 miles per hour. In gun application, use gun pressure no higher than 80 psi and apply in such manner as to confine the spray to the target area.

At high temperatures (above 95°F) vapors from this product may injure susceptible plants growing nearby. Excessive amounts of this herbicide in the soil may temporarily inhibit seed germination and plant growth.

This product is toxic to fish. Keep out of lakes, ponds and streams. Do not contaminate water by cleaning of equipment, or disposal of waste.

Do not contaminate irrigation ditches or water used for irrigation or domestic purposes.

Do not use or store around the home, recreation areas or similar sites.

Do not store near fertilizers, seeds, insecticides or fungicides. To avoid injury to desirable plants, do not handle or apply other agricultural chemicals with the same equipment used for ESTERON Brush Killer except as specified on this label. This product can be stored in an unheated building but, if exposed to subfreezing temperatures, should be warmed to at least 40°F and mixed thoroughly before using.

Do not reuse container. Dispose of empty container by punching holes in it and burying with waste in non-cropland away from water supplies, or follow official local recommendations for container disposal.

Local conditions may affect the use of herbicides. Consult your State Agricultural Experiment Station or Extension Service weed specialists for advice in selecting treatments from this label to best fit local conditions. Be sure that use of this product conforms to all applicable regulations. Apply this product only as specified on this label.

NOTE: Seller warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

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