

SPECIMEN LABEL

LOT



464-351

# Brush Ki

**FOR THE CONTROL OF TREES, BRUSH**

**Low-Volatile Brush and Weed Herbicide for Industrial Vegetation**

**Contains Isooctyl Ester of 2,4,5-T • Acid Equivalent**

**ACTIVE INGREDIENT:**

2,4,5-Trichlorophenoxyacetic Acid, Isooctyl Ester..... 65.0%

**INERT INGREDIENTS..... 35.0%**

2,4,5-Trichlorophenoxyacetic Acid Equivalent: 45.35%

4 pounds per gallon

Contains petroleum distillates

EPA Reg. No. 464-351

EPA Est. 464-MI-1

**PRECAUCION AL USUARIO:** Si usted no lee ingles, 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.)**

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# Killer 4T

**TREES, BRUSH AND BROADLEAF WEEDS**  
for Industrial Vegetation Control, Fencerows, and Rangeland

2,4,5-T • Acid Equivalent: 4 Pounds per Gallon

KEEP OUT OF REACH OF CHILDREN

## CAUTION

### PRECAUTIONARY STATEMENTS

*Hazards to Humans and Domestic Animals*

**HARMFUL IF SWALLOWED • MAY CAUSE IRRITATION**

**Avoid Contact with Skin, Eyes, or Clothing**

**Wash Thoroughly After Handling**

*Statements of Practical Treatment*

In case of contact, immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists. If swallowed, do not induce vomiting. Call a physician.

*Physical or Chemical Hazards*

**Do Not Cut or Weld Container**

*Environmental Hazards*

This product is toxic to fish. Keep out of lakes, streams or ponds. Do not apply where runoff is likely to occur. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not contaminate irrigation ditches or water used for irrigation or domestic purposes.

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 Foods, Feeds, Drugs or Clothing

..... 65.0%  
..... 35.0%

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# SPECIMEN LABEL (BACK)

## DIRECTIONS FOR USE

This is a violation of Federal law to use this product in a manner inconsistent with its labeling.

BRUSH KILLER 4T is recommended for industrial vegetation control on fence lines and tree stands. Do not use in forest lands, rights of way, or pastures. NOTE: Fencerows enclosing these areas are not to be sprayed.

This herbicide controls herbaceous and woody plants including such 2,4-D resistant species as ash, black gum, brambles, groundcherry, hawthorn, hoseremite, maple, mesquite, oak, osage, orange, palmetto, poison ivy, pricklypear, redbud, red top, sassafras, sweetgum, wild blackberry, wild rose, and certain species of hickory. Do not apply BRUSH KILLER 4T where spray drift may contact nearby 2,4,5-T susceptible crops or other desirable plants or may contaminate water intended for irrigation or domestic purposes. Read and follow all Use Precautions given on this label.

## PREPARING THE SPRAY

Use only diesel oil, No. 1 or No. 2 fuel oil or kerosene where oil is recommended in the spray mixture.

**Oil Sprays:** Add BRUSH KILLER 4T to the required amount of oil in the spray tank or mixing tank and mix thoroughly. This mixture can be made at any time before actual use and no separation will occur. Do not let any water or oil water mixture sprays get into the BRUSH KILLER 4T or into the finished mixture, as it may form a gel.

**Water Sprays:** Fill the spray tank about half full with clean water, add the required amount of BRUSH KILLER 4T and complete filling the tank. Mix thoroughly and continue agitation while spraying. Caution: See NOTE in paragraph on Oil-Water Mixture Sprays.

**Oil-Water Mixture Sprays:** When vigorous agitation is used, 1 gallon of BRUSH KILLER 4T will emulsify up to 10 gallons of oil in 100 gallons of spray mixture. First premix the BRUSH KILLER 4T and oil in a separate container. Do not allow any water or mixtures containing water to get into the BRUSH KILLER 4T 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 after the BRUSH KILLER 4T is mixed in the water, but highly vigorous mechanical agitation is required and a poor emulsion may be formed. The premix method is preferred.

**NOTE:** BRUSH KILLER 4T in water or oil-water sprays forms an emulsion, not a solution, and separation may take place unless sprays are agitated continuously. Mechanical agitation is recommended.

## HIGH VOLUME SPRAYS

**Basal Bark Treatment:** Brush and small trees can be controlled by spraying the basal parts of brush stems and tree trunks to a height of 12 to 15 inches from the ground line. Use a solution of 3 gallons of BRUSH KILLER 4T in 100 gallons (1 pint in 4 gallons) of oil. With certain resistant species, 4 gallons of BRUSH KILLER 4T in 100 gallons (1 pint in 3 gallons) of oil is effective. As only the basal portions of the brush are treated on a spot basis, the total amount sprayed per acre would not be expected to exceed 100 gallons. Knap sack or power equipment may be used, but complete wetting of the indicated area is necessary, particularly at the ground line. This means spraying until run down or run off to the ground line is noticeable. Old or rough bark requires more spray than young or smooth bark. Low pressures are desirable. Apply at any time, including the winter months, except when snow, ice or water prevent spraying to the ground line. Often delayed response and killing can be expected.

**Dormant Brush:** Treat any time after brush is dormant and most of the foliage has dropped. Spray should be concentrated at the base of stems and in addition, the upper parts of the stems should be broadcast sprayed enough to wet them. Under root-suckering species such as sumac, persimmon, sassafras and locust, also spray

the ground area to control small root suckers. 1-2 gallons of BRUSH KILLER 4T in 100 gallons of oil to 6 feet high may take up to 150 gallons of oil.

**Stump Treatment:** Where growth is more than 6 inches high, spray the freshly cut stumps and stubs with BRUSH KILLER 4T in 100 gallons (1 pint in 4 gallons) of oil. For resistant species, use 4 gallons of BRUSH KILLER 4T in 100 gallons of oil. Wet thoroughly the exposed bark, as well as cut run-down or run-off to the ground line is noticeable. Spray volume than young or smooth bark. As months, except when ice, snow or water prevent results are obtained on freshly cut stumps two coverage normally requires from 10 to 100 gallon stumps and stubs.

**Full Tree Treatment:** For large trees, make a single tree cut completely around the tree as close to it as possible, using a mixture of 2 gallons of BRUSH KILLER 4T in 3 gallons of oil.

**Spot Foliage Treatment:** Use 1/4 pint of BRUSH KILLER 4T and spray to wet all foliage, shoots, stems and

## LOW VOLUME S

Apply low volume sprays containing BRUSH KILLER 4T to brush and plants are actively growing. For 100% moisture should be sufficient to promote foliage growth. In hot, dry weather or after leaves have lost their moisture, give satisfactory control. Apply low volume sprays when spray drift will not be a problem. Note use of BRUSH KILLER 4T with fuel oil or kerosene to non-flammable. Apply with a portable knapsack mistblower including the root collar. Good coverage of the root collar. Run mistblower at 1/4 to 1/3 throttle for best spray drift control use a basal nozzle attachment in horizontal position.

**Basal Treatment Using Powered Knapsack:** BRUSH KILLER 4T with fuel oil or kerosene to non-flammable. Apply with a portable knapsack mistblower including the root collar. Good coverage of the root collar. Run mistblower at 1/4 to 1/3 throttle for best spray drift control use a basal nozzle attachment in horizontal position.

## AIR APPLICATION FOR BI

Consult the Agricultural Experiment Station, your Range specialists for best time to treat and need not use from early boot to milk stage where graze.

**Measurite:** Use 1 pint BRUSH KILLER 4T plus 1/2 quart of oil to make 4 gallons of total spray per acre. App

**Sand Shinnery Oak:** Use 1/2 to 1 quart of BRUSH KILLER 4T plus enough water to make 4 gallons of total spray per acre.

**Post and Blackjack Oaks:** Use 2 quarts of BRUSH KILLER 4T plus enough water to make 4 to 6 gallons of total spray per acre.

## STORAGE AND DI

Do not contaminate water, food or feed by storage.

**STORAGE:** Keep container tightly closed when stored in an unheated building. If exposed to subfreezing temperatures, should be warmed to at least 40 F and mixed thoroughly before use.

**PESTICIDE DISPOSAL:** Pesticide spray mixture according to label instructions must be disposed of according to local procedures under the Resource Conservation and Recovery Act.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent) and reuse or recycle in a sanitary manner according to local procedures.

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the ground line. Do not spray cut surfaces. For trees with a diameter of 1 to 2 inches, use 1/2 pint of BRUSH KILLER 4T in 100 gallons of oil. Brush of average density and 4 to 6 feet high may require 1 to 150 gallons of spray mixture per acre.

**Stump Treatment** Where growth is more than 4 to 8 feet tall, cut close to the ground and spray the freshly cut stumps and stubs with 3 gallons of BRUSH KILLER 4T in 100 gallons of oil or 4 gallons of oil mixed thoroughly. For more resistant species, use 4 gallons of BRUSH KILLER 4T in 100 gallons of oil or 3 gallons of oil mixed thoroughly on exposed bark, as well as cut surfaces. This means spraying until run-down or run-off to the ground line is not visible. Old or rough bark requires more spray volume than young or smooth bark. Apply at any time, including winter months, except when ice, snow or water prevent spraying to the ground line. Best results are obtained on freshly cut stumps two inches across or larger. Adequate coverage normally requires from 10 to 100 gallons per acre depending on density of stumps and stubs.

**Frill Treatment** For large trees, make a single bark groove or frill of overlapping axe cuts completely around the tree as close to the ground as feasible. Spray the frill thoroughly using a mixture of 2 gallons of BRUSH KILLER 4T in 100 gallons of 2 pint in 3 gallons of oil.

**Spot Foliage Treatment** Use 1/4 pint of BRUSH KILLER 4T in 3 gallons of water and spray to wet air foliage, shoots, stems and bark without runoff.

#### LOW VOLUME SPRAYS

Apply low volume sprays containing BRUSH KILLER 4T when foliage is well developed and plants are actively growing. For best results on woody species, soil moisture should be sufficient to promote foliar growth. Spraying during prolonged hot, dry weather or after leaves have lost their normal green color and vigor may not give satisfactory control. Apply low volume sprays by air or ground equipment only when spray drift will not be a problem - note use precautions.

**Basal Treatment Using Powered Knapsack Sprayer** - Mix 1 1/2 to 2 gallons of BRUSH KILLER 4T with fuel oil or kerosene to make 20 gallons of total spray solution. Apply with a portable knapsack mistblower to all sides of lower brush stems including the root collar. Good coverage of the root collar is essential for best results. Run mistblower at 1/4 to 1/3 throttle for best spray delivery and coverage. For maximum drift control use a basal nozzle attachment and do not raise nozzle above the horizontal position.

#### AIR APPLICATION FOR BRUSH CONTROL

Consult the Agricultural Experiment Station, your local Extension Service, Weed or Range specialists for best time to treat and need for re-treatment in your area. Do not use from early boot to milk stage where grass seed production is desired.

**Mesquite** Use 1 pint BRUSH KILLER 4T plus 1/2 to 1 gallon of oil in enough water to make 4 gallons of total spray per acre. Apply 40 to 90 days after first leaves appear.

**Sand Shinnery Oak** Use 1/2 to 1 quart of BRUSH KILLER 4T plus 1 gallon of oil in enough water to make 4 gallons of total spray per acre.

**Post and Blackjack Oaks** Use 2 quarts of BRUSH KILLER 4T plus 1 gallon of oil in enough water to make 4 to 6 gallons of total spray per acre.

#### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**STORAGE** Keep container tightly closed when not in use. This product can be stored in an unheated building, if exposed to subfreezing temperatures, the product should be warmed to at least 40 F and mixed thoroughly before using.

**PESTICIDE DISPOSAL** Pesticide spray mixture or residue that cannot be used according to label instructions must be disposed of according to Federal, State, or local procedures under the Resource Conservation and Recovery Act.

**CONTAINER DISPOSAL** Triple rinse (or equivalent) and offer for recycling or reconditioning, or do not reuse as a sanitary container, other equipment, state and local procedures.

#### USE PRECAUTIONS

Note: Do not graze dairy animals in treated areas within 4 weeks after application. Do not graze meat animals in treated areas within 2 weeks after application.

**AVOID CONTACT WITH 2,4,5-T SUSCEPTIBLE CROPS AND OTHER DESIRABLE BROADLEAF PLANTS** BRUSH KILLER 4T is injurious to most broadleaf plants. Therefore, do not apply directly to or otherwise permit even minute amounts to contact cotton, grapes, tobacco, fruit trees, vegetables, flowers, or ornamentals or other desirable plants susceptible to 2,4,5-T. Do not use in or near a green house.

**DO NOT APPLY IN THE VICINITY OF COTTON, GRAPES, TOBACCO, TOMATOES OR OTHER DESIRABLE 2,4,5-T SUSCEPTIBLE CROPS OR ORNAMENTAL PLANTS**

**DO NOT SPRAY WHEN WIND IS BLOWING TOWARDS SUSCEPTIBLE CROPS OR ORNAMENTAL PLANTS**

**AVOID SPRAY DRIFT** - Applications should be made only when there is no hazard from spray drift since very small quantities of spray, which may not be visible, may severely injure susceptible crops during both growing and dormant periods. Use coarse sprays to minimize drift since, under adverse weather conditions, fine spray droplets may drift a mile or more. The spray thickening agent, NALCO TROL, may be used with this product to aid in reducing spray drift. If used follow all use recommendations and precautions on the product label.

**NALCO TROL** - Trademark of NALCO Chemical Company.

**GROUND EQUIPMENT** - With ground equipment, spray drift can be lessened by keeping the spray boom as low as possible, by applying 20 gallons or more of spray per acre, by using no more than 20 pounds spraying pressure with large droplet producing nozzle tips, by spraying when wind velocity is 8 miles per hour or less. Do not apply with hollow cone type insecticide or other nozzles that produce a fine droplet spray except as directed on this label.

**AERIAL APPLICATION** - With aircraft, drift can be lessened by applying a coarse spray, by using no more than 20 pounds spray pressure at the nozzle, by using straight stream nozzles directed straight back, by using a spray boom no longer than 3/4 the wing span of the aircraft, and by spraying only when wind velocity is less than 6 mph.

**DO NOT APPLY BY AIRCRAFT WHEN AN AIR TEMPERATURE INVERSION EXISTS** - Such a condition is characterized by little or no wind and with air temperature lower near the ground than at higher levels. The use of a continuous smoke column at or near site of application is suggested to indicate direction and velocity of air movement, and to indicate a temperature inversion by layering of the smoke.

At high temperatures vapors from this product may injure susceptible plants growing nearby. Do not use in or near a greenhouse. Excessive amounts of this herbicide in the soil may temporarily inhibit seed germination or plant growth.

Do not use around the home, recreation areas or similar sites. To avoid injury to desirable plants, do not store, handle or apply other agricultural chemicals with the same containers or equipment used with BRUSH KILLER 4T except as specified on this label.

Local conditions may affect the use of herbicides. Consult your State Agricultural Experiment Station or Extension Service weed specialist 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.

**NOTICE** Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes 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, expressed or implied, extends to the use of this product contrary to label instructions, under abnormal conditions, or under conditions not reasonably foreseeable to seller and buyer assumes the risk of any such use.

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