

Specimen Label

PM 25
464-594

Grazon* ET Herbicide

ACCEPTED
DEC - 2 1987
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 464-594

For the Control of Mesquite and Associated Woody Plants and Broadleaf Weeds on Rangeland and Permanent Grass Pastures Only in Arizona, New Mexico, Oklahoma and Texas

Active Ingredient(s):
 Triclopyr (3,5,6-trichloro-2-pyridinyloxyacetic acid), Butoxyethyl Ester 61.6%
 Inert Ingredients 38.4%
 Acid Equivalent: Triclopyr - 44.3% - 4 lb/gal
 Contains petroleum distillates
 E.P.A. Registration No. 464-594
 E.P.A. Est. 464-MI-1

KEEP OUT OF REACH OF CHILDREN

Environmental Hazards

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

CAUTION

AVISO:

PRECAUCION AL USUARIO:

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

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN

Avoid Contact With Eyes, Skin, Or Clothing
 • Avoid Breathing Mists Or Vapors • Avoid Contamination Of Food • Wash Thoroughly After Handling • Remove And Wash Contaminated Clothing Before Reuse

STATEMENT OF PRACTICAL TREATMENT: In case of skin contact, flush skin with plenty of water. Get medical attention if irritation persists. If swallowed, do not induce vomiting. Call a physician.

Physical or Chemical Hazards

COMBUSTIBLE • Do Not Use or Store Near Heat or Open Flame. • Do Not Cut or Weld Container.

NOTICE

Read the entire label. Use only according to label directions.

Before buying or using this product, read "WARRANTY LIMITATIONS AND DISCLAIMER" elsewhere on this label. If terms are not acceptable, return unopened package at once to seller for full refund of purchase price paid. Otherwise, use by the buyer or any other user constitutes acceptance of the terms under "WARRANTY LIMITATIONS AND DISCLAIMER."

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

Grazon* ET

GENERAL INFORMATION

GRAZON ET Herbicide is an oil soluble, emulsifiable liquid product containing triclopyr. Small amounts can kill or injure many broadleaved plants. To prevent damage to crops and other desirable plants, follow all directions and precautions.

GRAZON ET Herbicide is recommended for the control of mesquite and associated woody plants and annual and perennial broadleaf weeds on rangeland and permanent grass pastures (including fence rows) and for non-irrigation ditch banks only in the states of Arizona, New Mexico, Oklahoma, and Texas.

Woody plant species controlled in addition to mesquite include:

Ash	Locust
Aspen	Maple
Birch	Oaks
Blackberry	Persimmon, Eastern
Blackbrush	Poison Oak
Cherry	Juniper
Dogwood	Pricklypear cactus
Elderberry	Sassafras
Elm	Sumac
Granjeno	Trumpet creeper
Guajillo	Twisted acacia
Hawthorn	Wild roses
Huisache	Willow

Annual, biennial and perennial broadleaf weeds controlled include:

Black Medic	Lambsquarters
Burdock	Lespedeza
Chicory	Mustard
Cinquefoil	Plantain
Clover	Sweet Clover
Curled Dock	Vetch

Note: Many forbs are susceptible to GRAZON ET. Do not spray pastures containing desirable forbs, especially legumes such as clover, unless injury or loss of such plants can be tolerated. However, the stand and growth of established grasses usually is improved after spraying, especially when rainfall is adequate and grazing is deferred.

DIRECTIONS FOR USE

Do not use for manufacturing or formulating.

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

Do not apply this product through any type of irrigation system.

High-Volume Leaf-Stem Treatment of Individual Plants Using Ground Equipment:

For control of mesquite and associated woody plants, use GRAZON ET Herbicide at a concentration of 1 to 3 quarts in water to make 100 gallons of spray mixture, or GRAZON ET Herbicide at 1½ to 3 pints as a tank mix with ¼ to ½ gallon of 2,4-D low-volatile ester or GRAZON P + D Herbicide or locally recommended rates of GRAZON PC plus 2,4-D Herbicides, diluted to make 100 gallons of spray. Depending on the size and density of the woody plants involved, apply sufficient spray volume to thoroughly wet all leaves, stems, and root collars but do not exceed application of more than 1 quart of GRAZON ET per acre. To minimize spray drift, do not use pressure exceeding 40 psi at the spray nozzle and keep sprays no higher than brush tops. NALCO-TROL drift control additive or equivalent is recommended to reduce spray drift.

Follar Broadcast Treatment Using Aerial or Ground Equipment:

Mesquite or Mesquite/Pricklypear - Use 1 pint of GRAZON ET Herbicide per acre alone for mesquite, ½ to 1 pint may be used to treat mesquite in New Mexico. If pricklypear cactus is also a problem, tank mix GRAZON ET Herbicide at ½ pint per acre with 1 to 2 pints GRAZON PC Herbicide per acre.

South Texas Mixed Brush (Such as Mesquite, Pricklypear Cactus, Blackbrush, Twisted Acacia, Granjeno, Huisache and Guajillo) - Use 1 to 2 pints of GRAZON ET Herbicide in a tank mix combination with 2 pints of GRAZON PC Herbicide per acre.

Environmental conditions may influence results considerably. For best results on mesquite, apply in the spring or early summer during the period 40 to 90 days after the first green growth appears and when soil moisture is adequate for good growth. Soil temperatures of 78°F to 83°F at a 12 inch to 18 inch depth have been reported as optimal for good plant kills.

Sand Shinnery Oak Suppression - Use ½ to 2 pints of GRAZON ET Herbicide alone or in a tank mix combination with 1 to 2 pints of GRAZON PC Herbicide.

Post and BlackJack Oak Sprouts (less than 4 feet in height) - Use ½ to 2 pints of GRAZON ET alone or as a tank mix with ½ to 2 pints of 2,4-D low-volatile ester herbicide per acre.

For best results, applications should be made when woody plants and weeds are actively growing.

Basal Spray for Woody Species:

Mix 2 gallons of GRAZON ET Herbicide with 98 gallons of diesel fuel (8 fluid oz/3 gallons of diesel for small sprayers). Spray basal 15 to 20 inches of plant to the point of runoff accumulation at the soil surface. Thorough wetting of the indicated area is necessary for good control. Old or rough bark requires more spray than smooth young bark. Spray at anytime of the year when soil is dry, but best results will be achieved when temperatures are high and soil is dry enough to be withdrawn from the base of the plant. Follow-up treatment may be needed in two or more years to control escaped species, especially root sprouters such as sumac.

Dormant Stem Treatment: Mix 3 to 6 quarts of GRAZON ET Herbicide in enough oil to make 100 gallons of spray. Apply with knapsack or power spraying equipment, using low pressure (20-40 psi). Treat any time when brush is dormant and most of the foliage has dropped. Thoroughly wet the upper parts of the stems and use the remainder needed to wet the lower 12 to 15 inches above the ground to the point of run-off. For root suckering species such as sumac, sassafras and locust, also spray the ground under the plant to cover small root suckers which may not be visible above the soil surface. For oil-water mixture application, mix 6 quarts of GRAZON ET Herbicide, 25 gallons of oil and 1.5 gallons of an approved agricultural spray emulsifier as indicated under directions for use. Treat as above.

Thinline Basal Bark Treatment: Control of susceptible woody plants such as red maple, blackberry, dogwood, red and white oak, with stems less than 6 inches in diameter, can be achieved with applications of undiluted GRAZON ET Herbicide in a thin stream to all sides of the stems about 6 inches above the base of the plants. The stream should be directed horizontally to apply a narrow band of GRAZON ET around each stem or clump. From 2 to 15 ml of chemical is required for treatment of single stems and from 25 to 100 ml to treat clumps of stems. Use an applicator metered or calibrated to deliver the small amounts required.

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Low Volume Basal Bark Treatment: Susceptible woody plants such as red maple, red and white oak, birches and aspen, with stems less than 6 inches in basal diameter, can be controlled by low volume basal applications of GRAZON ET Herbicide. Mix 20 to 30 gallons of GRAZON ET Herbicide in enough oil to make 100 gallons of total spray mixture.

Apply with a backpack or knapsack (but not with a mistblower) using low pressure and a solid cone or flat-fan nozzle. Spray the basal parts of the brush and tree trunks in a manner which thoroughly wets the lower stem, including the root collar area, but not to the point of runoff. Herbicide concentration should vary with size and susceptibility of species treated. Apply at any time, including the winter months, except when snow or water prevent spraying to the ground line.

Streamline Basal Bark Treatment: To control or suppress susceptible woody plants, such as red maple, white and red oak, mix 20 to 30 gallons of GRAZON ET Herbicide in enough oil to make 100 gallons of total spray mixture. Apply with a backpack or knapsack sprayer using equipment which provides a directed straight stream spray. Apply the spray in a 2 to 3-inch wide band to one side of stems less than 3 inches in basal diameter. Direct the spray at a point approximately 12 to 24 inches above the ground. Treat both sides of stems which are 3 to 4 inches in basal diameter. Greater efficacy is achieved when spray is applied to thin juvenile bark; direct spray above rough, thickened mature bark. Vary herbicide concentration with size and susceptibility of the brush being treated. Apply at any time, including the winter months, except when snow or water prevent spraying at the desired height above ground level.

For all the above basal and dormant brush applications, do not use more than 1.5 quarts of GRAZON ET Herbicide per acre.

Restrictions:

Withdraw livestock from treated forage at least 3 days before slaughter during the year of treatment. Do not graze lactating dairy animals on treated areas for one year following treatment. Do not harvest grass for hay from treated areas for one year following treatment.

Note: Read and carefully follow all applicable directions, restrictions, and precautions on labeling for other products used in combination with GRAZON ET Herbicide.

APPLICATION AND MIXING DIRECTIONS

Spray volume should be sufficient to obtain complete and uniform foliar coverage. For aerial application apply at least 2 gallons of total spray volume per acre. For aerial treatment of mesquite mixed with other South Texas brush species use a minimum of 4 gallons of total spray volume per acre. For ground application, apply 10 or more gallons of total spray volume per acre.

GRAZON ET Herbicide may be applied by diluting with water or by preparing an oil-water emulsion. The latter type of spray mixture performs more dependably under a broader range of conditions than straight water dilutions and is especially recommended for aerial applications.

Oil-water emulsions may be prepared using diesel fuel, fuel oil, or kerosene plus an emulsifier such as SPONTO 712T or TRITON X-100. Use a jar test to check spray mix compatibility before preparing oil-water emulsion sprays in the mixing tank. For more detailed information on emulsifiers and preparing oil-water (1:5 ratio) emulsion spray mixtures, consult your supplier of GRAZON Herbicide or The Dow Chemical Company.

For water dilutions add 2 quarts of agricultural surfactant per 100 gallons of spray mixture to provide improved wetting of brush and weed foliage. To help minimize spray drift, include a drift control and deposition aid such as NALCO-TROL, or its equivalent, in all spray mixes.

Spray mixtures containing GRAZON ET Herbicide should be prepared according to the following directions:

1. Add half the needed water to the mixing tank.
2. Add water soluble herbicide (if used), e.g. GRAZON PC or GRAZON P + D Herbicide.
3. Slowly add a premix of oil, emulsifier (if oil-water emulsion), and GRAZON ET Herbicide plus other oil-soluble herbicide (if used), e.g. 2,4-D ester. **NOTE:** Do not allow water or mixtures containing water to get into the premix or GRAZON ET Herbicide since a thick "invert" (water in oil) emulsion may be formed that will be difficult to break. Such an emulsion may also be formed if the premix or GRAZON ET is put in the mixing tank before the addition of water.
4. Add the remaining water. Also during final filling of the tank add NALCO-TROL or equivalent drift control and deposition aid (if used), plus an agricultural surfactant (if a water dilution rather than an oil-water emulsion spray is used).

Continuous agitation of the spray mixture during both mixing and application is necessary to ensure uniformity.

Oil Mixture Sprays for Basal Treatment: Use only diesel oil, No. 1 or No. 2 fuel oil or kerosene. Add GRAZON ET Herbicide to the required amount of oil in the spray tank or mixing tank and mix thoroughly. If the mixture stands over 4 hours, reagitiation is required.

USE PRECAUTIONS

Apply this product only as specified on this label.

Do not apply GRAZON ET Herbicide directly to, or otherwise permit it to come into direct contact with cotton, grapes, peanuts, soybeans, tobacco, vegetable crops, flowers or other desirable broadleaf plants and do not permit spray mists containing it to drift onto them.

AVOID INJURIOUS SPRAY DRIFT: Applications should be made only when there is little or no hazard from spray drift. Very small quantities of spray, which may not be visible, may seriously injure susceptible plants. Do not spray when wind is blowing toward susceptible crops or ornamental plants near enough to be injured. It is suggested that a continuous smoke column at or near the spray site or a smoke generator on the spray equipment be used to detect air movement, lapse conditions, or temperature inversions (stable air). If the smoke layers or indicates a potential of hazardous spray drift, do not spray.

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 40 pounds of spraying pressure with large droplet producing nozzle tips; by spraying when wind velocity is less than 10 miles per hour and by the use of NALCO-TROL drift control and deposition aid or its equivalent. Do not apply with hollow cone-type insecticide or other nozzles that produce a fine-droplet spray.

AERIAL APPLICATION: With aircraft, drift can be lessened by applying a coarse spray; by using no more than 20 pounds spray pressure at the nozzles; by using NALCO-TROL drift control additive and deposition aid, or equivalent, and by spraying only when wind velocity is less than 10 mph.

Do not permit injurious amounts of herbicide to contaminate irrigation ditches or water used for irrigation or domestic purposes.

STORAGE AND DISPOSAL

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

STORAGE: Store above 28°F or agitate before use.

DISPOSAL:

Prohibitions: Open dumping is prohibited.

Pesticide Disposal: Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to applicable federal, state, or local procedures.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities. Plastic containers may also be disposed of by incineration or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

General: Consult federal, state, or local disposal authorities for approved alternative procedures.

Be sure that use of this product conforms to all applicable regulations.

WARRANTY LIMITATIONS AND DISCLAIMER

The Dow Chemical Company 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 therein under normal conditions of use. THIS IS THE ONLY WARRANTY MADE ON THIS PRODUCT. NO OTHER EXPRESS AND NO IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS MADE OUTSIDE OF THIS LABEL. Therefore, 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 (including conditions noted on the label, such as unfavorable temperatures, soil conditions, etc.), under abnormal conditions (such as excessive rainfall, drought, tornadoes, hurricanes, etc.) or under conditions not reasonably foreseeable to or beyond the control of seller.

When buyer or user suffers losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability, or other legal theories), buyer or user must promptly notify in writing The Dow Chemical Company of any claims to be eligible to receive either remedy given below. The EXCLUSIVE REMEDY OF THE BUYER OR USER and the LIMIT OF LIABILITY of The Dow Chemical Company or any other seller will be one of the following, at the election of The Dow Chemical Company:

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

The seller will not be liable for consequential or incidental damages or losses.

The terms of this Warranty Limitations And Disclaimer cannot be varied by any written or verbal statements or agreements. Any employee or sales agent of the seller is not authorized to vary or exceed the terms of this Warranty Limitations And Disclaimer in any manner.

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THE DOW CHEMICAL COMPANY

Midland, Michigan 48674 U.S.A.

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SPECIMEN LABEL 86-1849 DATE CODE D987
REPLACES 86-1849 DATE CODE C886
DISCARD PREVIOUS SPECIMEN LABELS

REVISIONS INCLUDE:

- 1) ADDITION OF NON-IRRIGATION DITCH BANKS USE
- 2) ADDITIONAL SPECIES ADDED UNDER WOODY PLANTS CONTROLLED
- 3) ADDITION OF IRRIGATION PROHIBITION STATEMENT
- 4) REVISED BASAL SPRAY FOR WOODY SPECIES SECTION
- 5) ADDITION OF DORMANT STEM TREATMENT
- 6) ADDITION OF THINLINE, LOW VOLUME AND STREAMLINE BASAL BARK TREATMENTS.