

PM23

ENVERT 171®  
WOODY PLANT HERBICIDE

A FORMULATION OF 2,4-D AND 2,4-DP FOR CREATING AN INVERT EMULSION OR CONVENTIONAL SPRAY. CONTROLS MIXED BRUSH ON UTILITY RIGHTS-OF-WAY, ROADSIDES, DRAINAGE DITCHBANKS, AND SIMILAR AREAS.

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE OTHER CAUTIONS ON RIGHT SIDE PANEL.

ACCEPTED  
APR 11 1986  
EPA Reg. No. 264-223

ACTIVE INGREDIENTS:

- \*2,4-Dichlorophenoxyacetic acid, butoxyethanol ester . . . . . 16.8%
- \*\*2-(2,4-Dichlorophenoxy) propionic acid, butoxyethanol ester . . . . . 19.5%

INERT INGREDIENTS: . . . . . 63.7%

\*2,4-Dichlorophenoxyacetic acid equivalent 11.6% by weight  
or 0.95 pound per gallon.

Isomer specific by AOAC method No. 6.D01-5

\*\*2-(2,4-Dichlorophenoxy) propionic acid equivalent 13.7% by weight  
or 1.125 pounds per gallon.

IN CASE OF EMERGENCY TELEPHONE COLLECT  
(24 HOURS A DAY) IN U.S.A. (304) 744-3487

UNION CARBIDE AGRICULTURAL PRODUCTS COMPANY, INC.  
P.O. Box 12014, T.W. Alexander Drive  
Research Triangle Park, NC 27709

EPA Reg. No. 264-223

EPA Est. No. 264-MO-01

PRECAUTIONARY STATEMENTS

CAUTION

HAZARD TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed. Avoid contact with skin, eyes or clothing.

STATEMENT OF PRACTICAL TREATMENT

In case of contact wash skin with soap and water; for eyes flush with water for at least 15 minutes and get medical attention.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not contaminate water used for irrigation or domestic purposes. Do not apply when weather conditions favor drift from treated areas. Do not use in or near a greenhouse. Do not use same spray equipment for other purposes.

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

Do not apply ENVERT 171 directly to, or allow spray mist to drift onto cotton, okra, grapes, tomatoes, fruit trees, vegetables, flowers or other desirable crop or ornamental plants which are susceptible to 2,4-D or 2,4-DP herbicides. Very small quantities of the 2,4-D or 2,4-DP can cause severe injury during the growing or dormant periods. At temperatures above 95°F vapors from ENVERT 171 may injure susceptible plants.

Drift from aerial application may be reduced by (1) applying as near to the target as possible in order to obtain coverage; (2) by applying 12 or more gallons of spray per acre; (3) by using 20 pounds pressure or less at the nozzle tips; (4) by using nozzles which produce a coarse spray pattern; (5) by spraying only when the wind velocity is less than 5 miles per hour; and (6) by spraying when there is no possibility for a temperature inversion at time of spraying.

Use coarse sprays to minimize drift. Do not apply with hollow cone-type insecticide or other nozzles that produce fine spray droplets. Drift from ground application may be reduced by: (1) keeping spray as near to target as possible in order to obtain complete coverage; (2) by using no more than 20 pounds of pressure at the nozzle tips; and (3) by not spraying when the wind exceeds 5 miles per hour.

Do not apply near cotton, grapes, tomatoes or near desirable 2,4-D or 2,4-DP susceptible crop or ornamental vegetation.

Local conditions may affect the use of herbicides. Consult your State Agriculture Experiment Station, Farm Advisors, or Extension Weed Specialists for advice in selecting treatment from this label to best fit local conditions.

Be sure that use of the product conforms to all applicable laws, rules and regulations. Certain states have restrictions pertaining to application distances from susceptible crops. The applicator should become familiar with these laws, rules or regulations and follow them exactly. Apply this product only as specified on this label.

**STORAGE AND DISPOSAL**

**STORAGE**

Do not store near fertilizers, seeds, insecticides, or fungicides.

**PESTICIDE DISPOSAL**

) Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**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.

Consult Federal, state or local disposal authorities for approved alternate procedures.

**LIMITED WARRANTY AND DISCLAIMER**

) The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use when it is used in accordance with such directions; and (c) that the directions, warnings and other statements on this label are based upon responsible experts' evaluation of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants, and upon reports of field experience. Tests have not been made on all varieties or in all states or under all conditions. THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE, ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS, OR CAUTIONS.

BUYER'S EXCLUSIVE REMEDY AND MANUFACTURER'S OR SELLER'S EXCLUSIVE LIABILITY FOR ANY AND ALL CLAIMS, LOSSES, DAMAGES, OR INJURIES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER OR NOT BASED IN CONTRACT, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE CLAIMED. IN NO EVENT SHALL MANUFACTURER OR SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

GENERAL INFORMATION

ENVERT 171 provides an effective woody plant herbicide in a "invert emulsion" form or as a conventional spray.

When mixed according to directions, ENVERT 171 makes an "invert emulsion," a thicker, more viscous spray mixture than standard water, oil or oil-water mixtures used in aerial or ground spraying.

) To control mixed brush on utility rights-of-way, roadsides, drainage ditchbanks and similar areas, especially where conifers are a problem, spray in the spring after hardwoods have developed full sized leaves but before the spring growth of conifers has hardened off.

DIRECTIONS: Air Application

APPLY through UNION CARBIDE'S SPRA-DISK® or other suitable equipment, mounted on a helicopter.

Where root suckering species such as sumac, sassafras, locust, and black gum predominate, mix 3 gallons of ENVERT 171 with 9 gallons of water for each acre to be sprayed.

Where harder to control species such as red maple, elm or oaks are present, mix 5 to 6 gallons of ENVERT 171 with 15 to 18 gallons of water for each acre to be sprayed.

) WHERE BRUSH IS VERY DENSE AND TALL (25' to 30') or where conifers are present, better results will be obtained by increasing the rate and volume to 10 gallons of ENVERT 171 in 30 gallons of water per acre.

Always add water to ENVERT 171; never the reverse.

Aerial spraying of ENVERT 171 is a specialized job. Only employ competent, reliable aerial applicators who have qualified technical guidance. Become familiar with state laws governing the application of herbicides. Do not apply ENVERT 171 in areas where possible drift may injure valuable crops or plants (See Caution Statements).

### MIXING DIRECTIONS

Add the proper amount of ENVERT 171 to the mixing tank. While agitating, add the required amount of water. Always add water to ENVERT 171, never the reverse. Mechanical paddle agitators that operate independently of the pump should be used. Re-circulate through the by-pass valves until the thick emulsion is obtained. To transfer the spray mixture from mixing tanks to aircraft tanks, use a positive displacement pump with 1-1/2 to 2 inch hose fittings on both the suction and discharge end.

#### Ground Application with Mechanical Invert Sprayers such as the WANNER Sprayer

Read sprayer operating manual thoroughly before operating sprayer. Be sure all strainers, screens, control orifices and spray tanks are clean, undamaged and correctly installed.

Conventional sprays rather than invert emulsions may be made when ratios of 11:1 and 15:1 (water to ENVERT® 171 + kerosene or fuel oil) are mixed. Invert characteristics are provided when ratios of 11:1 (water to ENVERT® 171 + kerosene or fuel oil) are mixed.

Select the dilution rates, water orifice and chemical orifice from the following tables. Install the selected orifices and proceed with mixing.

Fill the concentrate tank with a mixture of ENVERT 171 Woody Plant Herbicide and kerosene (or fuel oil) using 1 to 1 1/2 gallons kerosene or fuel oil for each gallon of ENVERT 171.

Thoroughly pre-mix ENVERT 171 and kerosene or fuel oil before adding to the sprayer tank.

Fill the water tank with clean water, start up engine and pump as directed in the sprayer operating manual.

Set pressure regulator to apply spray mixture at 30-40 psi for boom spraying and at 100 psi for handgun application. Apply the spray to thoroughly cover plants to be controlled using total gallons spray per acre indicated in the following table. When treatment is directed toward scattered clumps of weeds or brush total amount of spray applied per acre should be reduced proportional to the area actually treated.

**Mixing Ratio and Orifice Selection Guide for Mechanical Invert Sprayers**

Application	Pump	Chemical Orifice	Water Orifice	Chemical Tank Ratio ENVERT 171: Kerosene or Fuel oil	Ratio Water: ENVERT 170 + kerosene or fuel oil mix	Total Amount <u>Invert emulsi</u> to apply per treated acre
For light to medium density stands of susceptible Woody Plants and root suckering species such as sumac, locust, sassafras and black gum.	A10FB (10 gallon)	4916-80	5/16"	1:1	15:1	96 gallons
	A20FB (20 gallon)	4916-125	1/2"	1:1	15:1	
		or 4916-156	9/16"	1:1	15:1	
For General use for control of susceptible broadleaf weeds and light density stands of woody plants.	A10FB (10 gallon)	4916-80	5/16"	2:3	15:1	50 to 100 g
	A20FB (20 gallon)	4916-125	1/2"	2:3	15:1	
For dense stands of brush or where species such as red maple, elm or oaks are present.	A10FB (10 gallon)	4916-89	5/16"	2:3	11:1	150 to 180 g
	A20FB (20 gallon)	4916-125	3/8"	2:3	11:1	
For very dense and tall (25' to 30') brush or where conifers are to be controlled.	A10FB (10 gallon)	4916-89	5/16"	1:1	11:1	240 gallons
		or 4916-120	5/16"	2:3	7:1	200 gallons
	A20FB (20 gallon)	4916-125	3/8"	1:1	11:1	240 gallons

20 gallons<sup>+</sup> kerosene or fuel  
oil

24 gallons<sup>+</sup> kerosene or fuel  
oil

60 gallons 30 gallons<sup>+</sup> ENVERT 171  
+  
30 gallons kerosene or fuel  
oil

24 gallons<sup>+</sup> ENVERT 171  
+  
36 gallons kerosene or fuel  
oil

)  
)  
100 gallons 50 gallons<sup>+</sup> ENVERT 171  
+  
50 gallons kerosene or fuel  
oil

40 gallons<sup>+</sup> ENVERT 171  
+  
60 gallons kerosene or fuel  
oil



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