

JUL 25 1985

Warren A. Davis
Union Carbide Agricultural
Products Company, Inc.
P.O. Box 12014, T.W. Alexander Drive
Research Triangle Park, NC 27709

Dear Mr. Davis:

Subject: Amendment: Add New Use: Pine Release Weedone®
2,4-DP Woody Plant Herbicide
EPA Registration No. 264-231
Your Application of July 17, 1985

The amendment referred to above, submitted in connection with registration under FIFRA sec. 3(c)(7)(A) is acceptable provided that you:

1. Submit and/or cite all data required for registration/re-registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. Delete "Rinse spray equipment and containers and dispose of liquid wastes in a pit in non-croplands located away from water supplies and desirable vegetation." Specify: Do not contaminate water by cleaning of equipment or disposal of wastes.
 - b. Modify "Keep out of any body of water" to read: Do not apply directly to any body of water.
 - c. Delete "Do not graze dairy animals on treated areas within 6 weeks after application. Do not graze meat animals on treated areas within 2 weeks of slaughter." Meat and milk tolerances have not been established for this herbicide under 40 Code of Federal Regulations Part 180. This pesticide is not registered for use on sites likely to be grazed (pasture, rangeland). These statements suggest grazing livestock on treated areas which could result in illegal residues of this pesticide in meat and milk.

RD/FHB:JOB-89506:Mountfort:RD-48:Kendrick:898-1270:7/24/85:Del:6/2/85:EK

CONCURRENCES

SYMBOL ▶							
SURNAME ▶							
DATE ▶							

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3. Submit five (5) copies of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely yours,

Richard P. Mountfort *RFM*
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (TS-767C)

Enclosure

WEEDONE® 2,4-DP

WOODY PLANT HERBICIDE

Controls mixed brush on Highways, Railroads, and Utility Rights-of-way. Also controls solid stands of post, blackjack, sand shinnery oak, and sandsage.

ACTIVE INGREDIENT:

2,4-Dichlorophenoxypropionic acid, butoxyethyl ester* 59.1%

INERT INGREDIENTS 40.9%

*2,4-Dichlorophenoxypropionic acid equivalent -
3.7 lb./gal. or 41.5%/wt.

E.P.A. Reg. No. 264-231 ZA

E.P.A. Est. No. 264-MO-01

KEEP OUT OF REACH OF CHILDREN

CAUTION

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

IN CASE OF EMERGENCY, TELEPHONE COLLECT

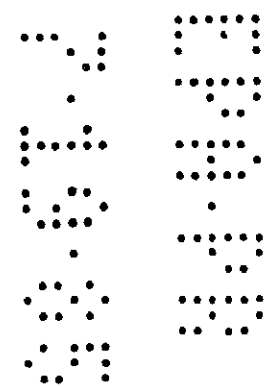
(24 HOURS A DAY) IN U.S.A. (304) 744-3487

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P.O. Box 12014, T.W. Alexander Drive, Research Triangle Park, N.C. 27709

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MADE IN U.S.A.

ACCEPTED
with comment
JUL 25 1985
U.S. Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under the pesticide
EPA Reg. No. 264-231



DIRECTIONS

WEEDONE 2,4-DP Woody Plant Herbicide will control mixed brush along utility rights-of-way, highways, railroads, drainage ditchbanks, and firebreaks; including post oak, blackjack oak, white oak, sand shinnery oak, red oak, pine, fir, spruce, black cherry, alder, willow, sandsage, elm, and similar species, as well as solid stands of post oak, blackjack oak, sand shinnery oak, and sandsage.

FOLIAGE STEM METHOD

This is the standard method for high volume sprays along fencerows, highways, and utility rights-of-way. Use it as a "first spray" on thick brush composed of mixed species. Apply spray to both foliage and stems of all plants from the time foliage is fully developed until plants begin to go dormant. For effective control, all leaves, stems, and suckers must be thoroughly wet to ground line. Some regrowth may be expected on resistant species, such as ash, maple, oak, and persimmon. ✓

To control mixed brush, add 1 gallon WEEDONE 2,4-DP Woody Plant Herbicide to 99 gallons of water. Mix thoroughly before spraying. Apply 100 to 300 gallons of spray mixture per acre.

Up to 5 gallons of oil per 100 gallons may be added to these spray mixtures.

Forest Site Prep. & Pine Release on 264-232 (2,4-D + 2,4-DP) at same rate as 2,4-DP

PINE RELEASE

Ground Spray

To control hickory, sweetgum, oaks, wax myrtle, chinquapin, boxelder, cherry, sumac, sassafras and similar species in pine plantations, apply a mixture of 1 gallon WEEDONE® 2,4-DP + 24 gallons of water to the foliage of competing hardwood brush species. Apply with a backpack or similar sprayer with a hand-held wand and single nozzle. For best results, apply when hardwoods are in full leaf and actively growing and when soil moisture is high. Brush foliage should be thoroughly covered but short of runoff. Avoid spraying the planted pines, as some needle damage may result.

Application to a 1 to 3 year old pine plantation with 2-4' brush of average density should require 5 to 10 gallons of spray mixture per acre.

Brush species such as blackgum, water and willow oak or hophornbeam require thorough coverage for good results. Brush species such as red maple, ash or dogwood are not usually controlled by this treatment.

RAILROAD ON-TRACK APPLICATION

For use with the DIRECTA-SPRA® spray applicator mounted on Hi-Rail equipment, use 3 gallons WEEDONE 2,4-DP Woody Plant Herbicide in 25-50 gallons of water per acre. For added drift control add 2-2.5 oz. Lo-Drift™ Spray Additive in each 25-50 gallons of water. If higher total spray volumes are needed, do not apply more than 3 gallons WEEDONE 2,4-DP Woody Plant Herbicide per acre. ✓

AERIAL APPLICATION - UTILITY RIGHTS-OF-WAY

For aerial application to mixed brush along utility rights-of-way, apply 2-3 gallons of WEEDONE 2,4-DP Woody Plant Herbicide in 12 to 30 gallons of water per acre. One gallon of fuel oil may be added.

Apply the spray only through equipment designed to provide effective drift control. A helicopter mounted MICROFOIL® applicator or other equipment that provides equivalent drift control is recommended.

SOLID STANDS OF OAK OR SANDSAGE

Apply chemicals with fixed wing or helicopter aircraft using 5 gallons of spray mixture per acre. Spray when plants have just developed full sized leaves, when soil moisture is sufficient for good growing conditions, when relative humidity is high, and wind velocities are less than 5 miles per hour. Spray season normally runs from early May to mid-June in Texas, California, and New Mexico and from mid-May to early July in Oklahoma and northward.

AMOUNTS PER ACRE

Types of brush	WEEDONE 2,4-DP Qts.	Oil Gallons	Water Gallons	Remarks
Post & Blackjack Oak	2	1/2	4	Re-treat the 2nd year with 1 qt. per acre
Sand shinnery oak	1/2	1/2	4 3/8	Re-treat the 2nd year with 1/2 qt. per acre
Sandsage	1/2	1/2	4 3/8	

Aerial spraying is a specialized job. Secure qualified technical guidance for each job and employ a competent, reliable applicator. Become familiar with state laws governing the application of herbicides. Do not use aerial sprays in areas where possible spray drift may injure valuable crops or plants.

TO PREPARE A SPRAY: Add this product to the proper amount of oil, if any, and mix thoroughly. Then pour this mixture into the required amount of water while agitating continuously. This material forms an emulsion in water - not a solution. Provide agitation to prevent separation and insure a uniform spray mixture.

AERIAL OR GROUND APPLICATION TO CONTROL MIXED BRUSH INCLUDING CONIFERS AND ROOT SUCKERING SPECIES ON UTILITY, RAILROAD AND HIGHWAY RIGHTS-OF-WAY AND FENCEROWS: Not for use in California.

Where red maple, conifers, and root-suckering species such as sassafras, sumac, black locust, or persimmon are the major problem, use 1 to 2 1/2 gallons WEEDONE 2,4-DP Woody Plant Herbicide in combination with 1 to 2 1/2 gallons AMDON 101 or Tordon* 101 herbicide mixture or in combination with 3 to 6 pints AMDON K or Tordon* K herbicide. Dilute with water and apply in a total spray volume of 15 to 50 gallons per acre. Use lower rates to control brush on sandy soils or coarse soils with susceptible species such as seedling aspen, cherry, willow, and sumac. Use higher rates to control brush on clay soils or fine soils or rocky terrain with more resistant species such as maple, oak, pine, and red cedar. When making the spray mixture, add WEEDONE 2,4-DP to the required amount of water while agitating the mixture in the spray tank. Then add the AMDON 101 or AMDON K while continuing agitation. (Do not mix concentrates of WEEDONE 2,4-DP with concentrates of AMDON 101 or AMDON K.) Aerial applications of the tank mixture should be made only with a helicopter mounted MICROFOIL® applicator or an equipment system providing equivalent drift control. Ground applications to control brush on railroad or utility rights-of-way should be made only with the DIRECTA-SPRA® spray applicator or an equipment system providing equivalent drift control. Do not use these tank mixtures on drainage ditchbanks or firebreaks. Observe all restrictions, precautions, and limitations on the labeling of each product used in tank mixtures.

*Trademark of the Dow Chemical Company.

CAUTION

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

ENVIRONMENTAL HAZARD

This product is toxic to fish. Rinse spray equipment and containers and dispose of liquid wastes in a pit in non-croplands located away from water supplies and desirable vegetation. Keep out of any body of water.

Do not apply when runoff is likely to occur.

DIRECTIONS FOR USE

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

Do not apply WEEDONE 2,4-DP Woody Plant Herbicide near, directly to, or permit 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-DP herbicide. Very small quantities of WEEDONE 2,4-DP Woody Plant Herbicide will cause severe injury during the growing or dormant periods. Crops contacted by WEEDONE 2,4-DP Woody Plant Herbicide sprays or spray drift may be killed or suffer significant stand loss with extensive quality and yield reduction. Do not apply when weather conditions favor drift from target area.

Do not use the same spray equipment for other purposes unless thoroughly cleaned. Do not contaminate irrigation ditches or water used for domestic or irrigation purposes especially in areas where grapes, cotton, tomatoes, or other susceptible plants are grown. Do not use in a greenhouse.

Do not graze dairy animals on treated areas within 6 weeks after application. Do not graze meat animals on treated areas within two weeks of slaughter.

Do not apply when a temperature air inversion exists. Such a condition is characterized by little or no air movement and an increase in air temperature with an increase in height. In humid regions a fog or mist may form. An inversion may be detected by producing a smoke column and checking for a layering effect. If questions exist pertaining to the existence of an inversion consult with local weather services before making an application.

Use coarse sprays to minimize drift. Do not apply with hollow cone-type insecticide or other nozzles that produce fine spray droplets. Do not apply when any wind is blowing toward susceptible crops or valuable 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 using 20 pounds of pressure or less at the nozzle tips; (3) by using nozzles which produce a coarse spray pattern; (4) by spraying only when the wind velocity is less than 5 miles per hour; (5) by applying sprays at low pressure and high volume; (6) by applying 5 or more gallons of spray per acre.

Under very high temperatures vapors from this product may injure susceptible plants in the immediate vicinity.

Drift from ground application may be reduced by: (1) keeping the spray as near to the target as possible in order to obtain complete coverage; (2) by applying 25 gallons or more of spray per acre; (3) by using no more than 20 pounds of pressure at the nozzle tips; (4) by using nozzles which produce a coarse spray pattern; and (5) by applying sprays at low pressure and high volume.

Under very high temperatures vapors from this product may injure susceptible plants in the immediate vicinity.

STORAGE AND DISPOSAL

STORAGE

Do not store near other pesticides, seeds, fertilizers, food, or feedstuffs.

PESTICIDE DISPOSAL

Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL

Do not reuse container. Do not burn. 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.

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

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

LIMITED WARRANTY AND DISCLAIMER

The manufacturer warrants that this product conforms to the chemical description on the label, 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 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 of residues, 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.

BUYERS 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 MANUFACTURERS OPTION TO, THE 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.