

Date: July 12, 1983

Subject: EPA Registration Number: 264-393
Weedone CB Woody Plant Herbicide

005046

From: Deloris F. Graham *DAG 7/15/83*
FHB/TSS *E 7/15/83*

To: Richard Mountfort
Product Manager (23)

Applicant: Union Carbide Agricultural Products Co. Inc.
P.O. Box 12014
T. W. Alexander Drive
Research Triangle Park, NC 27709

Active Ingredients:

2-(2,4-Dichlorophenoxy) propionic acid,
butoxyethanol ester.....11.7%
2,4-Dichlorophenoxy acid, butoxyethanol ester.....11.9%
Inert Ingredients.....76.4%

Background: Submitted an Acute Inhalation Study as requested in a letter from the Agency dated February 18, 1983. Study conducted by Hazleton Laboratories America, Inc. Data under accession number 250380. Method of support indicated as not applicable.

Recommendation:

- (1) FHB/TSS finds this study acceptable to support conditional registration of this product.
- (2) The appropriate toxicity category is III - CAUTION.

Label:

- (1) No additional label comments.

Review:

- (1) Acute Inhalation Toxicity Study: Hazleton Laboratories, Inc., Project Number 400-679; March 3, 1983.

Procedure: Two groups consisting of 5 male and 5 female Sprague-Dawley rats were used. Group I animals were used as a control. Group II animals were exposed for four hours to a gravimetric concentration of 5.5 mg/L (nominal concentration = 19.76 mg/L). Mass media aerodynamic diameter was 3.44 ± 0.26 μ with a geometric standard deviation of 1.86 ± 0.10 . Temperature range during study was 65 to 78°F and relative humidity ranged 30 to 68%. Observations were made 9 times during exposure, immediately after exposure and twice daily thereafter for 14 days. Necropsy performed on all animals.

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Results: In Group II (treated group), 1/5 M and 1/5 F died; no mortalities among group I (control). Toxic signs included lacrimation, squinted eyes, nasal discharge, salivation, urine stains, bloody crust on face and rough hair coats. Necropsy revealed lungs - bright red, dark red areas at margin, mottled; thymus - purple foci on surface; liver - dark; stomach - glandular mucosa with dark foci; urinary bladder - walls thickened, reddened mucosa, filled with dark red fluid; in animals that died during study. No abnormalities noted at necropsy in sacrificed animals. Necropsy revealed brain - prominent vessels; cecum lymph nodes - enlarged; kidneys - pelvis dilated, pelvis filled with clear fluid, pelvis contained white granular material; uterine horns - distended with clear fluid.

Study Classification: Core Guideline Data

Toxicity Category: III-CAUTION

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WARNING

Harmful if swallowed. Causes skin irritation. Causes Eye Irritation. Do not get on skin or clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly before eating or smoking.

STATEMENT OF PRACTICAL TREATMENT

In case of skin contact, wash with plenty of soap and water. Get medical attention if irritation develops. In case of eye contact, flush with plenty of water. If swallowed, drink promptly large quantities of milk, egg white, gelatin solution or if these are not available, drink large quantities of water. Avoid alcohol. Get medical attention. Do not induce vomiting. Do not give anything by mouth to an unconscious person.

ENVIRONMENTAL HAZARDS

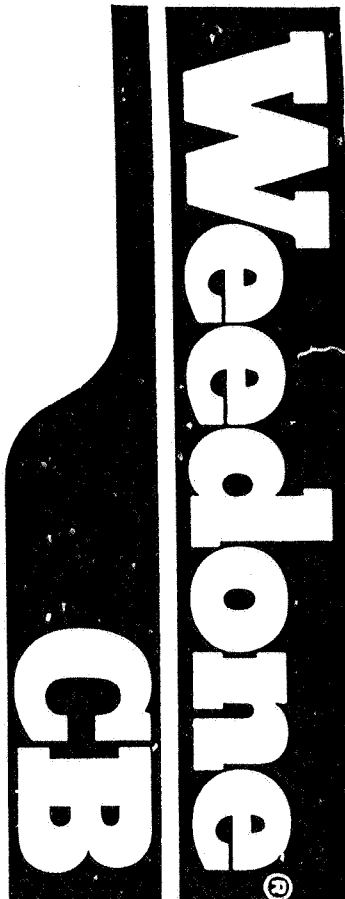
This product is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not graze meat or dairy animals on treated area. Do not apply when weather conditions favor drift. Do not use the same spray equipment for other purposes unless thoroughly cleaned. Do not contaminate water used for domestic or irrigation purposes. Do not use in or near a greenhouse. Do not apply WEEDONE CB Woody Plant Herbicide 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-D or 2,4-DP herbicides. Do not apply near susceptible plants since very small quantities of the 2,4-D or 2,4-DP will cause severe injury during the growing or dormant periods. Crops contacted by WEEDONE CB Woody Plant Herbicide sprays or spray drift may be killed or suffer significant stand loss with extensive quality and yield reduction. Drift may be reduced by: (1) applying as near to the target as possible; (2) by decreasing the pounds of pressure at the nozzle tips; (3) by using nozzles which produce a coarse spray pattern; (4) by not applying when wind is blowing toward susceptible crops or valuable plants.

STORAGE AND DISPOSAL STATEMENTS

Do not contaminate water, food, or feed by storage or disposal. Do not store near fertilizers, seeds, insecticides, or fungicides. Pesticides, 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 approved state and local procedures.



WOODY PLANT HERBICIDE

For controlling woody plants in fencerows, on roadsides, railroads, utility rights-of-way and other non-crop areas.

ACTIVE INGREDIENTS:

- 2-(2,4-Dichlorophenoxy)propionic acid, butoxyethanol ester..... 11.7%
- 2,4-Dichlorophenoxyacetic acid, butoxyethanol ester..... 11.9%

INERT INGREDIENTS

- 2-(2,4-Dichlorophenoxy)propionic acid equivalent 8.2% by weight or 0.66 pounds per gallon.*** 76.4%
- 2,4-Dichlorophenoxyacetic acid equivalent 8.2% by weight or 0.66 pounds per gallon.***
- ***Isomer specific by AOAC method No. 6-D01-5.

EPA Reg. No. 264-393 EPA Est No. 264-MO-01
PATENT PENDING

KEEP OUT OF REACH OF CHILDREN WARNING

See Side Panel For Additional Precautionary Statements

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, N.C. 27709

Net Contents: 1 GAL.

plants by basal, stump or stem application. WEEDONE CB Woody Plant Herbicide is applied directly to the woody plant stem. It is not necessary to cut or fill the bark. WEEDONE CB Woody Plant Herbicide will not freeze under normal storage or application conditions, so it can be applied during the growth period or in the dormant season.

For most efficient treatment with WEEDONE CB Woody Plant Herbicide use the nozzles and spray equipment suggested in the Directions For Use. During the growing season, vegetation near treated stems may be discolored and even killed. WEEDONE CB Woody Plant Herbicide normally allows ground cover plants to become reestablished in the treated area. Species controlled by WEEDONE CB Herbicide include:

chestnut oak	white pine	spruce
red oak	balsam fir	Sassafras
white oak	Virginia pine	tallowtree
bur oak	southern pines	sumac
water oak	red pine	aspen
pin oak	sycamore	black locust
black oak	ironwood (Ostrya)	pin cherry
beak (scrub) oak	ironwood (Carpinus) (blue beech)	black cherry
red maple	American elm	mazzard cherry
ash	red elm	choke cherry
sweetgum	hackberry	poison ivy
blackgum	sour orange	Allanhus
hickory	redcedar	osageorange
birch	persimmon	

* Treat at least lower 36 inches of stem as specified in Directions For Use.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Be sure that use of this 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.

Do not dilute WEEDONE CB Woody Plant Herbicide with water. Do not apply WEEDONE CB Woody Plant Herbicide when stems are wet. Rainfall which follows application of WEEDONE CB to dry stems does not normally reduce brush control.

Do not graze meat or dairy animals on treated area.

FOR CONTROL OF WOODY PLANTS IN FENCE ROWS, ON ROADSIDES, RAILROADS, UTILITY RIGHTS-OF-WAY AND OTHER NON-CROP AREAS

Average application volume of WEEDONE CB Woody Plant Herbicide is 5 gallons per acre, although actual amount used will depend on the amount and size of brush in the treated area. Total spray volume should be approximately 10% of that required for a conventional basal treatment. Do not exceed a total application volume of 20 gallons WEEDONE CB Woody Plant Herbicide per acre.

BASAL BARK TREATMENT:

To control general mixed brush up to 4 inches DBH (trunk diameter at breast height) including oak, hickory, sweetgum, blackgum, and many others, apply WEEDONE CB Woody Plant Herbicide undiluted to the lower 18-24 inches of the plant stem. Treat all around the stem including the root collar area and any exposed roots. It is not necessary for WEEDONE CB Woody Plant Herbicide to run down or puddle in the root collar area. To control conifers larger than 2 inches DBH, or cherry, ash and maple, increase treatment height to cover the lower 36 inches of stem bark.

WEEDONE CB Woody Plant Herbicide basal bark treatment will control top growth of root-suckering species such as aspen, sumac, Sassafras, persimmon and black locust, but regrowth from lateral roots may occur the following growing season.

STUMP TREATMENT:

Control stems larger than 4 inches DBH by cutting the tree, leaving an 18-24 inch tall stump and treating the sides and root collar area of the remaining stump.

APPLICATION EQUIPMENT

WEEDONE CB Woody Plant Herbicide can be applied from a hand pump back pack sprayer or a hand-carried pump-up pressurized sprayer such as Solo 425, or Chapin Model 152.

For most efficient use of the spray mixture, apply with a gun such as the Spraying Systems Model 23L-7676 equipped with a Spraying Systems 5500 Y series adjustable ConeJet nozzle. Equip all nozzles with a 200 mesh screen. An alternate system which will reduce but not eliminate dripping between trigger releases is a 200 mesh TeeJet strainer and check valve number 4193A-SS having a spring opening that operates at 10 psi with the Spraying Systems 5500 Y series adjustable ConeJet nozzle mounted on a conventional basal spray wand. Since WEEDONE CB Woody Plant Herbicide is applied as a concentrate, the most efficient nozzle size will vary with the diameter of the brush stems to be treated.

—For average brush of 1-3 inches DBH, or for heavy stands of brush with most stems less than 1 inch DBH use the Spraying Systems 5500 adjustable ConeJet nozzle with a Y2 orifice.

—For scattered stands or large trees or brush use the Spraying Systems 5500 adjustable ConeJet nozzle with a Y3 orifice.

Spray pressure of 15 psi is optimum for most use. Do not use spray pressure higher than 20 psi.

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