

JUN 6 1990

Mr. Greg Mulhall
Albaugh Chemical Corporation
728 S.E. Creekview Drive
Ankeny, Iowa 50021

Dear Mr. Mulhall:

Subject: Label Amendment -Aerial Application Directions
Herbicide A-4D
EPA Reg No 42750-13
Your Submission Dated May 14, 1990

The labeling amendment referred to above submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided that the following change is made:

Under Preparation of the Spray, add "per acre".

Please submit five (5) copies of your final printed labeling incorporating the amendment before you release the product for shipment. A stamped copy is enclosed for your records.

You are reminded that pesticide products containing 2,4-D as an active ingredient may not be released for shipment by the registrant after March 1, 1991 unless the product bears amended labeling that complies with the requirements of FIFRA as set out in the Agency's instructions dated February 7, 1990.

Sincerely yours,

Joanne I. Miller

Joanne I. Miller
Acting Product Manager (23)
Fungicide-Herbicide Branch

Registration Division (R75050)

CONFERENCE

SYMBOL	H75050c						
SURNAME	D. W. Miller						
DATE	6-5-90						

PRECAUTIONARY STATEMENTS

DANGER

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Corrosive. Causes eye damage. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield when handling. Harmful if swallowed, absorbed through skin or inhaled. Avoid breathing spray mist. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling. Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

ENVIRONMENTAL HAZARDS

Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply directly to water. Do not apply when weather conditions favor drift from target area, as this product may injure cotton, beans, other vegetables, certain legumes and ornamentals. Do not apply directly to water except as stated on this label.

PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill, or store near heat or open flame.

DIRECTIONS FOR USE

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

REENTRY STATEMENT: Do not enter treated areas without protective clothing until sprays have dried. Protective clothing means, at least, a hat or other suitable head covering, a long-sleeved shirt and long-legged trousers or a coverall type garment (all of closely woven fabric covering the body, including the arms and legs), gloves, shoes, and socks. Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

NOTICE TO CROP OWNERS: Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Oral and written warnings must include the following information: DANGER. Area treated with 2,4-D Amine on (date of application). Do not enter without appropriate protective clothing. In case of accidental exposure, wash exposed area with plenty of water and get medical attention. For further information see PRECAUTIONARY STATEMENTS on the label.

STORAGE AND DISPOSAL

DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.

STORAGE

Store in a dry location away from children, animals, foods, feeds, seeds, or other agricultural chemicals. Handle in accordance with information given under PRECAUTIONARY STATEMENTS. In the event of spillage or leakage, soak up material with absorbent clay, sand, sawdust, or other absorbent material. Scrape up and dispose of in accordance with information given under DISPOSAL. Repackage and relabel useable product in a sound container. In case of fire or other emergency, report at once by toll-free telephone to 800-424-9300.

DISPOSAL

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinse 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: Plastic Containers—Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. Metal Containers—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.

Herbicide

ACCEPTED
with COMMENTS
in EPA Letter Dated:

JUN 6 1990

Weed Ki

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

42750-13

ACTIVE INGREDIENT:

Dimethylamine salt of 2,4-dichlorophenoxyacetic acid

INERT INGREDIENTS:.....

Equivalent to 38.8% of the 2,4 isomer of 2,4-D or not less than
of 2,4-D per gallon.

KEEP OUT OF REACH OF DANGER/PELIC

PRECAUCION AL USUARIO: Si usted no lee ingles, no use
le haya sido explicada ampliamente.

STATEMENT OF PRACTICAL TR

IF SWALLOWED: Drink promptly a large quantity of milk, eggs
are not available, large quantities of water. Avoid alcohol.

NOTE TO PHYSICIAN: Probable mucosal damage may cont

IF ON SKIN: Wash with plenty of soap and water. Get me

IF IN EYES: Flush with plenty of water. Get medical attentio

See side panel for additional PRECAUTION

EPA REG. NO. 42750-13

Manufactured by
ALBAUGH CHEMICAL CORPORATION
Ankeny, Iowa 50021

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Herbicide A-4D

Read entire label before using this product.

General Information

Herbicide A-4D is a selective herbicide recommended for the control of many broadleaved weeds in crops, along fence rows, around farm buildings and similar areas. This product also can be used on lawns, golf courses, parks and other similar areas without injury to most grasses. The following is a partial list of weeds controlled by Herbicide A-4D.

Beggartick	Knotweed	Ragweed
Bindweed		Russian thistle
Bitterweed	Lambsquarter ✓	Shepherdspurse
Bull thistle	Mallow	Sicklepod
Burdock ✓	Marshelder	Smartweed
Canada thistle	Morningglory	Sowthistle, annual
Carpenterweed	Musk thistle	Sunflower
Chicory	Mustards	Tumbleweed
Cocklebur	Nettle, stinging	Velvetleaf
Coffeeweed	Pennycress	Velch
Dandelion	Peppergrass	Wild carrot
Dock	Pigweed	Wild garlic
Gainsoga	Plantain	Wild hemp
Goldenrod	Puncturevine	Wild onion
Henbit	Pusley, Florida	Wild radish
Jimsonweed		Witchweed
		Yellow rocket

Note: Local conditions, crop varieties and application regulations vary and may affect use of this herbicide. Consult local agricultural experiment station or extension service weed specialists and state regulatory agencies for recommendations in your area.

Aerial application may be of use for control of weeds on certain crops where there would be no danger of drift to susceptible crops. Applications should only be made by applicators experienced in the use of 2,4-D formulations. Regulations governing aerial application of herbicides are in effect in many states. Consult local regulatory agencies concerning requirements before making applications.

Treating Small Areas: One tablespoonful of Herbicide A-4D in 1½ gallons of water is about equal to 1 quart in 100 gallons.

Note: When stored at temperatures below freezing, it will be necessary to warm contents to 45° F and mix thoroughly before using.

Preparation of the Spray: Fill the spray tank with half the required amount of water, then add the recommended amount of Herbicide A-4D and continue filling spray tank with balance of water. Keep agitator running when filling spray tank and during spray operations.

APPLICATION RATES SHOULD BE 3 to 5 GALLONS OF TOTAL SPRAY BY AIR OR 5 to 25 GALLONS BY GROUND EQUIPMENT

UNLESS OTHERWISE DIRECTED.

With Liquid Nitrogen Solutions: For late season control of young smartweeds, cocklebur, annual morningglory, and other annual broadleaf weeds less than 1 inch high. Fields should be as clean as possible and corn 20-30 inches high. Apply 1 pint with 80-120

lbs. nitrogen per acre. The spray MUST be prepared by first adding required amount of liquid nitrogen solution to spray tank. Next dilute 1 pint of 2,4-D Amine 4 with 2 quarts of clean water for each acre to be treated with one tankful. Start the tank agitator and SLOWLY add the diluted 2,4-D solution. Spray immediately, maintaining continuous agitation until spray tank is empty. Direct the spray to lower 3" to 4" of corn stalks.

Use spray equipment designated to handle corrosive liquid nitrogen solutions. After spraying, remove any remaining solution and rinse spraying equipment thoroughly with water. Mix only one tank at a time. Do not spray during or immediately following cold weather.

Time of Application: Best results are obtained when Herbicide A-4D is used on young weeds that are actively growing. Application of lower recommended rates to susceptible annual weeds usually will be satisfactory, but for perennial weeds and other conditions, such as in very dry areas where control is difficult, use higher recommended rates and increase the volume of water per acre. When used as a selective spray on crops the stage of growth of the crop must be considered. Some woody plants and weeds are hard to control and repeat applications may be necessary.

Small Grains (Wheat, Barley, Rye): Apply Herbicide A-4D in sufficient water for uniform coverage on small grains when fully tillered or stalked (4 to 6 inches tall), but before the "boot" stage. Crop injury may result if applied earlier than "tiller" or from early "boot" through the "milk" stage. Do not graze or feed forage from treated fields within 2 weeks after treatment. See chart for recommended rates. For late season use to control large succulent weeds, apply 1 to 2 pints per acre in sufficient water for uniform coverage on small grain from dough stage to harvest — use only when weeds threaten to interfere with harvest operations. Do not use treated straw for livestock feed.

Rice: In the South and Southwest, apply 1½ to 2½ pints per acre in 5 to 10 gallons of water 7 to 10 weeks after planting or when the rice is fully tillered but not yet in the "boot". In California: Apply 1½ to 2 pints per acre 55 to 65 days after planting when the rice is through the water and well established, but not after seed stalks emerge. For difficult weeds and where daily temperatures do not exceed 95°F, 3 pints per acre may be used.

Corn — Postemergence (Field, Sweet and Popcorn): Apply Herbicide A-4D from emergence to tasseling. When spraying corn above 10 inches in height, use nozzle extension ("corn drops"), directing the spray at base of the corn plant to keep the spray off the leaves as much as possible. Do not apply from tasseling emergence to dough stage. Crop injury is more likely to occur if corn is growing rapidly under high temperature and high soil moisture conditions. Under such conditions, use the lowest recommended rate. Delay cultivation for 8 to 10 days after application to reduce stalk breakage resulting from temporary brittleness caused by 2,4-D. Hybrids vary in tolerance to 2,4-D. Consult local agricultural experiment station or extension service weed specialists regarding use of 2,4-D on your specific hybrid. See chart for recommended rates.

Sorghum: Apply Herbicide A-4D when sorghum plants are 6 to 12 inches tall and secondary roots are well established. Use drop nozzles when crop is over 10 inches tall. Do not apply from flowering to dough stage. See chart for recommended rates.

Amount of Herbicide A-4D per Acre

Crop (See Detailed Directions Above)	For Average Conditions	For Corn Weeds
Wheat, Barley, Rye		
Annual Weeds	½ to 1 pint	1 1/2
Perennial Weeds	1 pint	1 1/2
Corn**		
Postemergence	½ to 1 pint	1 1/2
Sorghum**		
Postemergence	1 pint	1 1/2

*Arizona, California, Idaho, Montana, Nevada, Oregon and Wyoming

**If any rows or bands are treated, leaving middles unweeded, the application rate per crop acre is proportional to the ground area.

Pastures: To control many broadleaved weeds in meadows and rangelands, use 2 to 3 pints per acre of Herbicide A-4D in sufficient water to provide for uniform application to pastures when weeds are growing actively. Do not apply to pastures until grass is well established. Do not apply when grass is in "boot" stage if grass seed production is desired. Most legumes injured or killed at the rates recommended. Do not graze animals on treated areas within 7 days after treatment.

Lawns, Golf Courses and Similar Turf: Apply 2 pints of Herbicide A-4D per acre in sufficient water to provide for uniform coverage. Do not apply to newly-seeded lawns until grass has become well established. Injury may result if applied to St. Augustinegrass, carpetgrass, centipedegrass, or clovers.

General Weed Control: Along fence rows, ditch banks, farm buildings and similar areas, use 2 to 3 quarts of Herbicide A-4D in 100 gallons of water per acre. Thoroughly run-off.

For Aquatic Weeds in Lakes, Ponds, Drainage Canals and Marshes: Use 2½ to 4½ pints of product in 50 gallons of water per acre. Apply in enough water to wet foliage. Application should be made when leaves are fully expanded above water line and plants are actively growing. Consult State Conservation Department or Game and Fish Commission for assistance in determining the best time and rate of application under local conditions.

Treatment of aquatic weeds can result in oxygen depletion and decomposition of dead weeds. This loss can cause suffocation. Therefore, to minimize this hazard, the water area in a single operation and wait at least 24 hours between treatments. Begin treatment along the outward in bands to allow fish to move into untreated areas.

NOTICE: Seller warrants that the product conforms to its chemical analysis for the purposes stated on the label when used in accordance with the directions under normal conditions of use, but neither this warranty of merchantability or fitness for a particular purpose, nor the use of this product contrary to label instructions, conditions, or under conditions not reasonably foreseeable to the user, assumes the risk of any such use.