

10/82-356

07/24/2000

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg.
Number:

10182-356

Date of Issuance:

JUL 24 2000

NOTICE OF PESTICIDE:
Registration
X Reregistration

(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

Diquat Weed Killer "D"

Name and Address of Registrant (include ZIP Code):

Zeneca Ag Products
P.O. Box 15458
Wilmington, DE 19850-5458

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

In the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

Based on your response to the Reregistration Eligibility Document, EPA has reregistered the product listed above. The following revisions must be incorporated into the labeling before the product is released for shipment:

- 1) Add the statement "If person is unconscious, do not give anything by mouth and do not induce vomiting" to the oral statement in the Statement of Practical Treatment.
- 2) Add the heading "User Safety Requirements" so that it immediately precedes the statement "Follow manufacturer's instructions for cleaning/maintaining PPE."
- 3) Add the restriction "Do not apply to public waters" to the beginning of the Aquatic Use Directions.

Enclosed is a copy of your label stamped "Accepted with Comments". This action is taken under the authority of section 4(g)(2)(C) of the Federal Insecticide, Fungicide and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain registration of your product.

Joanne I. Miller
Product Manager (23)
Herbicide Branch
Registration Division (7505C)

Signature of Approving Official:

Date:

JUL 24 2000

**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

JUL 24 2000

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under EPA Reg. No.
10182-356**

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Page 1 of 8
Diquat Weed Killer "D"
DIQ356MAS-040600

Diquat Weed Killer "D"

**TO PREVENT ACCIDENTAL POISONING, NEVER PUT INTO FOOD, DRINK OR
OTHER CONTAINERS AND USE STRICTLY IN ACCORDANCE WITH ENTIRE LABEL**

ACTIVE INGREDIENT:

| | |
|---|---------------|
| Diquat dibromide [6,7-dihydrodipyrido (1,2-a:2',1'-c) pyrazinediium dibromide] | 4.35% |
| INERT INGREDIENTS | 95.65% |
| Total | 100.0% |

Contains 0.2 lbs. diquat cation per gal. as 0.371 lbs. salt per gal.

EPA REG. NO. 10182-356
EPA EST. NO.

Net Contents:

KEEP OUT OF REACH OF CHILDREN

WARNING - AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand the label, find someone to explain it to you in detail.)

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Active Ingredient Made in U.K.

ZENECA Professional Products
ZENECA Ag Products Inc.
Wilmington, DE 19850-5458

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STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: IMMEDIATELY give water or milk to drink and induce vomiting by inserting finger in throat. Take person and product container to the nearest hospital or physician fast. **PROMPT TREATMENT IS ESSENTIAL TO COUNTERACT POISONING** and should be initiated before signs and symptoms of injury appear.

IF ON SKIN: IMMEDIATELY wash with plenty of soap and water. ~~Remove and wash all contaminated clothing with soap and hot water before reuse. See a doctor if diquat contacts a skin cut, abrasion or area of irritation. Get medical attention.~~

IF IN EYES: IMMEDIATELY wash eyes flush with plenty of water. ~~for at least 15 minutes and get medical attention. Call a physician if irritation persists.~~

IF INHALED: IMMEDIATELY get away from spray mist. ~~Stop and check spray procedure. See a doctor if irritation persists. remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.~~

NOTE TO PHYSICIANS: Call ZENECA Inc. Medical Emergency Information Network 1-800-F-A-S-T-M-E-D (327-8633) at any hour to obtain toxicology information and a diquat analysis. To be effective, treatment for diquat poisoning must begin **IMMEDIATELY**. Treatment consists of binding diquat in the gut with suspensions of activated charcoal or bentonite clay, administration of cathartics to enhance elimination, and removal of diquat from the blood by charcoal hemoperfusion or continuous hemodialysis.

FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE CALL 1-800-F-A-S-T-M-E-D (327-8633).

FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING

~~MAY BE FATAL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CAUSES SUBSTANTIAL, BUT TEMPORARY, EYE INJURY. CAUSES SKIN IRRITATION. CONTACT WITH IRRITATED SKIN, OR A CUT, OR REPEATED CONTACT WITH INTACT SKIN MAY RESULT IN POISONING. Do not get in eyes or on skin or clothing. Do not breathe spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash before reuse. Wear face shield or goggles; protective clothing; rubber gloves, rubber apron, and shoe coverings impermeable to diquat when handling concentrate. When spraying, wear waterproof footwear and clothing, except when using aquatic subsurface application methods. Do not feed forage from treated crops to livestock. Keep livestock and pets out of treated fields and crop areas.~~

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WORKER SAFETY RULES: ~~Keep all unprotected persons and children away from treated area or where there may be drift. Do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get medical help right away (See Practical Treatment Section).~~

Harmful if swallowed, inhaled or absorbed through skin. Causes eye skin irritation. Avoid contact with Do not get on skin, in eyes, or on clothing. ~~Wash thoroughly with soap and water after handling and~~ Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Avoid breathing spray mist. Remove contaminated clothing and wash clothing before reuse. Do not feed forage from treated crops to livestock. Keep livestock and pets out of treated areas.

Applicators and other handlers must wear:

- ~~• long-sleeved shirt and long pants~~
- coveralls over short sleeved shirt and short pants
- shoes plus socks
- ~~• waterproof gloves~~
- chemical-resistant gloves, such as barrier laminate or nitrile rubber or neoprene rubber or viton
- protective eyewear
- chemical-resistant apron when cleaning equipment, mixing, and loading

Application Restrictions: Do not apply this product in a way that will contact any person or pet, either directly or through drift. Only persons applying this product may be in the area during application.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should:

- ~~• Clothing and protective equipment exposed to this product should be washed in detergent and hot water. Such items should be kept and washed separately from other laundry.~~
- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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ENVIRONMENTAL HAZARDS (AQUATIC AND NONAQUATIC USES)

This pesticide is toxic to wildlife. This pesticide (concentrate) is toxic to aquatic invertebrates. When used according to label recommendations, the risk to aquatic invertebrates is relatively low. Do not apply directly to water except as specified on this label. For terrestrial uses, do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters, or rinsate. Do not use treated water for animal consumption, spraying or irrigation within 14 days after treatment. Do not use treated water for drinking purposes until 14 days after treatment. For aquatic uses, do not apply directly to water except as specified on this label. Treatment of dense weed areas can may result in oxygen loss from decomposition of dead weeds. This loss of oxygen can may cause fish suffocation. Therefore, treat only 1/3 to 1/2 of the water body area at a one time, especially if dense areas of weeds and/or algae exist, and wait 14 days between treatments.

DIRECTIONS FOR USE

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

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modifications and being grown in interior plantscapes, ornamental gardens or parks, or on golf courses or lawns and grounds.

REENTRY STATEMENT

Do not allow people or pets to touch treated plants until the sprays have dried.

~~Keep all unprotected persons out of operating areas or vicinity where there may be drift.~~

For terrestrial uses, do not allow entry of maintenance personnel into treated areas, or allow contact with treated vegetation wet with spray, dew or rain, without appropriate protective clothing until spray has dried.

For aquatic uses, do not enter treated areas while treatments are in progress.

Do not allow swimming in treated areas within 24 hours after treatment.

Certain states may require more restrictive reentry intervals; consult your State Department of Agriculture for further information.

Written or oral warnings regarding use of protective clothing and accidental exposure must be given to workers who are expected to be in treated areas or in areas about to be treated. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers.

When oral warnings are given, warnings shall be given in a language customarily understood by workers and must indicate the specific period of time that treated areas may not be entered without protective clothing. Oral warnings must also include appropriate first aid instructions in case of accidental exposure. These instructions are given in the STATEMENT OF PRACTICAL TREATMENT at the beginning of this label.

Written warnings must include the following information, "WARNING. Area treated with Diquat Herbicide on (date of application). Do not enter treated areas without appropriate protective clothing until spray has dried (or other reentry interval if your State has a more restrictive interval for this product). If accidental exposure occurs, follow the instructions below." (Written warnings must include the STATEMENT OF PRACTICAL TREATMENT given at the beginning of this label).

DIRECTIONS

Diquat Weed Killer "D" is recommended for use as a general weed killer and as an aquatic weed killer. Absorption and herbicidal action is usually quite rapid with effects visible in a few days. Rinse all spray equipment thoroughly with water after use. AVOID SPRAY DRIFT to crops which may be damaged during application. Always add a 75% nonionic spreader. Do not use dirty or muddy water for Diquat dilution as Diquat will be inactivated. Do not mix or apply with any other desiccant, pesticide or fertilizer.

NONCROP OR NONPLANTED AREAS (Spot Sprays):

Rights-Of-Way, including Railroads, Highways, Roads, Dividers and Medians, Pipelines, Public Utility Lines, Including Pumping Stations, Transformer Stations and Substations, Around Electric Utilities, Commercial Buildings, Manufacturing Plants, Storage Yards, Rail Yards, Fence Lines and Parkways, Edges and Nonflooded Portions of Ponds, Lakes and Ditches. Also Around Ornamental Gardens, Walkways, Patios, Beneath Greenhouse Benches, Along Driveways and Around Golf Courses. To Kill Undesirable Above-Ground Grass and Broadleaf Weed Growth -- 2½ to 5 gals. plus 8 to 16 oz. of a nonionic surfactant per 100 gals. water (6¾ oz. Diquat Weed Killer "D" plus ½ teaspoonful of a nonionic surfactant to 1 gal. water). Apply for full coverage and thorough weed contact. Apply to young weeds since control decreases as weeds mature. Retreatment may be necessary to control grasses and established weeds. Avoid spray contact with foliage of food crops or ornamental plants.

AQUATIC USE DIRECTIONS

For application only to ponds, lakes, and drainage ditches where there is little or no outflow of water and which are totally under the control of the product's user. Do not use the treated water for animal consumption, spraying, irrigation, or domestic purposes for 14 days after treatment.

DO NOT APPLY TO MUDDY WATER. Avoid creating muddy water during application. Do not apply under conditions of high wind and wave action. Do not apply where plants are covered with mud deposits. Consult your State Fish and Game Agencies before applying this product to public waters.

WEED SPECIES

GALS/SURFACE ACRE

Submersed Weeds (Infesting Still Ponds, Lakes, Ditches or Portions Thereof):

| | |
|--|-------|
| Bladderwort (<i>Utricularia</i> spp.) | 10-20 |
| Coontail (<i>Ceratophyllum demersum</i>) | 20 |
| Elodea (<i>Elodea</i> spp.) | 20 |
| Naiad (<i>Najas</i> spp.) | 10 |
| Pondweeds (<i>Potamogeton</i> spp.)* | 20 |
| Watermilfoil (<i>Myriophyllum</i> spp.) | 10-20 |

*Except *P. robbinsii*; also Richardson Pondweed (*P. richardsonii*) in Minnesota

APPLICATION: In early season where submersed weed growth has not reached the surface, apply Diquat Weed Killer "D" by pouring directly from the container into the water while moving slowly over the water surface in a boat. Distribute evenly over infested areas in strips 40 feet apart. In mixed weed populations, use the high rate of application as indicated by weeds present.

In late season or where submersed weed growth has reached the water surface throughout the area to be treated, apply Diquat Weed Killer "D" by pouring as above or injecting below the water surface in strips no more than 20 feet apart. Use the high rate of application as indicated by the weeds present. Where algae are present along with the submersed weeds, pretreatment with Copper Sulphate at recommended rates is advised for best results with Diquat Weed Killer "D".

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FLOATING WEEDS

GALS/SURFACE ACRE

| | |
|---|--------|
| Pennywort (<i>Hydrocotyle umbellata</i>) | 5 - 7½ |
| Salvinia (<i>Salvinia rotundifolia</i>) | 5 - 7½ |
| Waterhyacinth (<i>Eichhornia crassipes</i>) | 5 - 7½ |
| Waterlettuce (<i>Pistia Stratiotes</i>) | 5 - 7½ |

APPLICATION: 150 to 200 gals. of water plus 1 pint of a nonionic surfactant should be applied as an overall spray for control of the above weeds. The high rates of Diquat Weed Killer "D" should be used for late season application.

GALS/SURFACE ACRE

| | |
|-------------------------------|----|
| Duckweed (<i>Lemna</i> spp.) | 10 |
|-------------------------------|----|

APPLICATION: For control, apply Diquat Weed Killer "D" as an overall spray in 50 to 150 gals. of water per acre. Care should be taken to thoroughly cover all plants on water and on damp marginal areas. Reinfestation of Duckweed occurs readily from untreated areas. Retreatment with Diquat Weed Killer "D" may be necessary to obtain season-long control.

WEED SPECIES

GALS/100 GALS WATER

Marginal Weeds (Infesting the Edges and Other Portions of Ponds, Lakes and Ditches):

| | |
|-------------------------------|----|
| Cattails (<i>Typha</i> spp.) | 10 |
|-------------------------------|----|

APPLICATION: For top kill, apply Diquat Weed Killer "D" in 100 gals. water, plus 1 pint of a nonionic surfactant for full coverage and thorough weed contact. Repeat treatment as necessary to control regrowth. For best results, apply before flowering.

ALGAE: Diquat Weed Killer "D" will control certain filamentous algae. For *Spirogyra* spp. and *Pithophora* spp.: Apply 0.5 to 1.5 p.p.m. Application methods as for submersed weeds.

Formula for Parts Per Million (PPM) Recommendations

Gals. to use = p.p.m. recommended x acreage of water x average depth of water x 14.

For Example -- ½ p.p.m. recommendations; two acre pond; 4 feet average depth; ½ x 2 x 4 x 14 = 56 gals. required.

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.

STORAGE: Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Do not contaminate feed, foodstuffs or drinking water. Do not store or transport near feed or food. Store at temperature above 32°F. For help with any spill, leak, fire or exposure involving this material, call CHEMTREC (1-800-424-9300).

PESTICIDE DISPOSAL: This product is acutely hazardous. 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: Do not reuse container. Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

IMPORTANT: Read the Entire Directions for Use and the Conditions of Sale and Warranty before using this product.

CONDITIONS OF SALE AND LIMITED WARRANTY:

The Directions for Use of this product are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended or other influencing factors in the use of the product, all of which are beyond the control of the seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label, subject to the inherent risks referred to above, when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller and Buyer and User assume the risk of any such use. SELLER DISCLAIMS ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY.

When Buyer or User claims 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 Seller of any claims to be eligible to receive either of the remedies set forth below. The EXCLUSIVE REMEDY OF BUYER OR USER and the LIMIT OF LIABILITY of Seller will be, at the election of Seller, refund of the purchase price paid for product bought, or replacement of amount of product used. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.