

Diquat Water Weed Killer

ACCEPTED

MAY 21 1976

Under the Federal Insecticide, Fungicide and Plant Disease Act, as amended, and applicable State Laws.

239-1663



ORTHO

Also Harvest Aid Chemical

Active Ingredient	By Wt.
Diquat dibromide [6, 7-dihydrodipyrido (1,2-a:2',1'-c) pyrazinediium dibromide]	35.3%
Inert Ingredients	64.7%
Contains 2 lbs. Diquat cation per gal. as 3.73 lbs. salt per gal.	
U.S. Pat. No. 2,823,987	

STORE AT TEMPERATURES ABOVE 32 F.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH WARNINGS AND DIRECTIONS. AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

KEEP PESTICIDE IN ORIGINAL CONTAINER. DO NOT PUT CONCENTRATE OR DILUTE INTO FOOD OR DRINK CONTAINERS.

ORTHO Diquat Water Weed Killer is a non-volatile herbicidal chemical for use in the desiccation of certain plants in preharvest application in order to facilitate both mechanical and hand harvesting. It is also 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. Do not use on lawns.

NON-CROP OR NON-PLANTED AREAS: To Kill above Ground Weed Growth Around Buildings and Other Installations, Gardens, Walkways, Patios, Beneath Greenhouse Benches, Fence Lines, Golf Courses, Parkways and Driveways for Control of Undesirable Broadleaved and Grassy Weeds — 1 qt. plus 4 oz. ORTHO X-77 Spreader (non-ionic) per 50 gals. water (4 teaspoonfuls ORTHO Diquat Water Weed Killer plus 1/2 teaspoonful ORTHO X-77 Spreader (non-ionic) 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.

ALFALFA, CLOVER, GRAIN SORGHUM, SOYBEANS (SEED CROPS ONLY): 1 1/2 to 2 pts. per acre. On thin Stands of Seed Alfalfa — 1 pt. per acre. **VETCH (Seed Crops Only):** 1 pt. per acre. Preharvest Desiccation of Foliage of Listed Crops — Use specified dosage in 15 to 30 gals. water by ground spray application and 5 to 10 gals. water by air. On Alfalfa, Clover and Vetch, desiccation is complete in 3 to 10 days. On Grain Sorghum, apply within 1 to 2 weeks of harvest and when seeds have not more than 30% moisture. On Soybeans, apply 1 week

NET CONTENTS 54 GALLONS LIQUID

Manufactured for
Chevron Chemical Company
 Ortho Division/San Francisco CA 94119 Richmond CA 94804
 Product 1000-2 Made in U.S.A.
 Form 7843-A
 EPA Reg. No. 239-1663-AA

before harvest. Do not graze treated areas or feed treated forage to livestock. Do not use seed from treated plants for food, feed or oil purposes.

SUGARCANE (HAWAII ONLY): To Prevent Flowering (tasseling) of Cane — 1 pt. ORTHO Diquat Water Weed Killer plus 1 oz. ORTHO X-77 Spreader (non-ionic) per acre. Apply during flower initiation period, first 3 weeks of September. Apply by aircraft in 7 to 10 gals. water per acre. Some leaf burn will occur following this treatment. Do not apply within 5 months of harvest.

SUGARCANE (FLORIDA AND PUERTO RICO ONLY): To Prevent Flowering (tasseling) of Cane — 1 pt. ORTHO Diquat Water Weed Killer plus 1 oz. ORTHO X-77 Spreader (non-ionic) per acre. Apply during flower initiation period. Apply by aircraft in 3 to 10 gals. of water per acre. Some leaf burn will occur following this treatment. Do not apply within 3 months of harvest.



**DO NOT INHALE
 DO NOT GET ON SKIN
 KEEP OUT OF REACH OF CHILDREN**

WARNING: May be fatal if swallowed, inhaled or absorbed through skin. Skin contact will cause severe irritation. Do not get material on skin, eyes or clothing. Contact with skin may increase danger of absorption. Symptoms of injury may be delayed. In case of skin contact, wash immediately with water; remove clothing and wash skin where necessary. For eyes, wash thoroughly with water and get medical attention. Wear face shield, rubber gloves and rubber apron when handling concentrate. Do not breathe spray mist in order to avoid nasal, throat and respiratory tract irritation. When spraying or when contacting sprayed vegetation wet with spray, dew or rain, wear waterproof footwear and clothing.

Note to Physicians: Emergency Information — call (415) 233-3737. Do not contaminate feed, foodstuffs or drinking water. Do not store or transport near feed or food. 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. When container is empty, immediately wash thoroughly and destroy. Never re-use.

WARNING: Do not feed forage from treated crops to livestock. Keep livestock out of treated fields and crop areas. Rinse all spray equipment thoroughly with water after use. AVOID SPRAY DRIFT to crops which may be damaged during application.

NOTE: Do not use treated water for animal consumption, swimming, spraying or irrigation within 10 days after treatment. Do not use treated water for drinking purposes until 14 days after treatment. Treatment of dense weed areas can result in oxygen loss from decomposition of dead weeds. This loss can cause fish suffocation. Therefore treat only 1/3 to 1/2 of the dense weed areas at a time and wait 10-14 days between treatments. **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 State Fish and Game Agencies before applying this product to public waters.

AQUATIC USE DIRECTIONS

WEED SPECIES	GALS./SURFACE ACRE
SUBMERSED WEEDS (Infesting Still Ponds, Lakes, Ditches, Laterals, Waterways or Portions Thereof):	
Bladderwort (Utricularia spp.)	1-2
Coontail (Ceratophyllum demersum)	2
Elodea (Elodea spp.)	2
Naiad (Najas spp.)	1
Pondweeds (Potamogeton spp.)†	2
†Except P. robbinsii, also Richardson Pondweed (P. richardsonii) in Minnesota.	
Watermilfoil (Myriophyllum spp.)	1-2

APPLICATION: In early season where submersed weed growth has not reached the surface apply ORTHO Diquat Water Weed Killer 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 population, 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 ORTHO Diquat Water Weed Killer by pouring or injecting a diluted (10-20 to 1) solution 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, pre-treatment with Copper Sulphate at recommended rates is advised for best results with ORTHO Diquat Water Weed Killer.

FLOATING WEEDS

Pennywort (Hydrocotyle umbellata)	1/2-3/4
Salvinia (Salvinia rotundifolia)	1/2-3/4
Waterhyacinth (Eichhornia crassipes)	1/2-3/4
Waterlettuce (Pistia stratiotes)	1/2-3/4

APPLICATION: 150 to 200 gals. of water plus 1 pt. ORTHO X-77 Spreader (non-ionic) should be applied as an overall spray for control of the above weeds. For aerial application to Waterlettuce, use 75 gals. of water per acre plus 1 pt. ORTHO X-77 Spreader (non-ionic) per 100 gals. spray solution. The high rates of ORTHO Diquat Water Weed Killer should be used for late season application.

Duckweed (Lemna spp.)
APPLICATION: For control, apply ORTHO Diquat Water Weed Killer as an overall spray, 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 ORTHO Diquat Water Weed Killer may be necessary to obtain season long control.

WEED SPECIES

MARGINAL WEEDS (Infesting the Edges and Other Portions of Ponds, Lakes, Ditches, Laterals, Canals and Waterways):	GALS./100 GALS. WATER
Cattails (Typha spp.)	10

APPLICATION: For top kill, apply ORTHO Diquat Water Weed Killer in 100 gals. water plus 1 pt. ORTHO X-77 Spreader (non-ionic) for full coverage and thorough weed contact. Repeat treatment as necessary to control regrowth. For best results apply before flowering. **ALGAE:** ORTHO Diquat Water Weed Killer will control certain filamentous algae: Spirogyra spp. and Pithophora spp. Apply 0.5 to 1.5 p.p.m. w/ ORTHO Diquat Water Weed Killer for control. 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 — 1/2 p.p.m. recommendations: two acre pond, 4 feet average depth.
 x 2 x 4 x 14 = 56 gals. required.

CONDITIONS OF SALE: 1. Chevron Chemical Company (Chevron) warrants that this material conforms to the chemical description on the label and is reasonably fit for use as directed hereon. Chevron neither makes nor authorizes any agent or representative to make any other warranty of FITNESS or of MERCHANTABILITY, guarantee or representation, express or implied, concerning this material.

2. Critical and unforeseeable factors beyond Chevron's control prevent it from eliminating all risks in connection with the use of chemicals. Such risks include, but are not limited to, damage to plants and crops to which the material is applied, lack of complete control, and damage caused by drift to other plants or crops. Such risks occur even though the product is reasonably fit for the uses stated hereon and even though the label directions are followed. Buyer and user acknowledge and assume all risks and liability (except those assumed by Chevron under a cover resulting from purchase, storage, and use of this material).