



ORTHO

Diquat 2 Spray

(HERBICIDE)

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING

May be fatal if swallowed or absorbed through skin. Skin contact may cause severe irritation. Eye contact with material can injure eyes or clothing. Contact with skin may increase danger of absorption. Symptoms of injury may be delayed. Wear long sleeves, rubber gloves and protective clothing. Do not breathe dust or spray mist. If inhaled, avoid nasal, throat and respiratory tract irritation. When spraying, or when controlling sprayed vegetation on wet earth spray, do not wear water-potable apparel, cloth, etc., or eat food taken from treated crops to avoid health effects. Avoid eating fish and crop areas.

STATEMENT OF PRACTICAL TREATMENT

If ingested: IMMEDIATELY CALL A DOCTOR. If you feel unwell after 12 hours, go to doctor. If you vomit, do not induce vomiting. If you have difficulty breathing, drink water, remove cloth and wash face. Rinse mouth with water and seek medical attention.

Note to Physicians: Emergency Information - Call 415-750-2700.

ENVIRONMENTAL HAZARDS

Do not allow treated water to run off onto soil or onto water. Do not use treated water for swimming, bathing, drinking, irrigation, or washing clothes. Do not use treated water for washing fruits and vegetables. Do not use treated water to flush weed areas containing seeds. Do not use treated water to flush areas where it is likely to cause damage to fish. Do not use treated water to flush areas of a treated crop. Do not use treated water to flush areas between treatments. Do not apply treated water to plants. Do not apply treated water to fish ponds. Do not apply where plants are growing. Do not apply to fish ponds or irrigate fish and game Agencies by application of treated water to public waters.

DIRECTIONS FOR USE

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

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

STORAGE AND DISPOSAL

PROHIBITIONS

Do not store treated water. Do not feed by storage, disposal or clearing of dead birds. Do not drink treated water.

STORAGE

Keep spray mixture in a closed container. Do not pour concentrate or dilute into lakes or streams. Do not pour concentrate or dilute into ponds or drains. Do not pour concentrate or dilute into streams or drinking water. Do not store or treat treated water. Store at temperatures above 50° F. Not for use or storage in California.

PESTICIDE DISPOSAL

Pesticide spray mixture must be disposed of according to label instructions in a safe, approved, licensed or Federal, State or local procedures under the Resource Conservation and Recovery Act.

CONTAINER DISPOSAL

Follow California's Uniform Rules for recycling or discarding containers of pesticides. See other authorized state and local procedures.

ORTHO Diquat 2 Spray is a volatile herbicide concentrate for use as a general weed killer and aquatic weed killer. A non-selective herbicide, it controls aquatic weeds, tall grasses, vines, shrubs, trees, and broadleaf weeds. Do not spray equipment thoroughly with water after use. AVOID SPRAY DRIFT to crops which may be damaged during application.

DO NOT USE OR STORE IN PLASTIC CONTAINERS. Use metal or glass containers.

POTATOES (EXCEPT CALIFORNIA): For desiccation of Potato Plants to Facilitate Harvest. Apply to harvested potato plants treated with the recommended rate of 5 lb./acre. In general, repeat treatment may be necessary. A minimum of 5 days between applications is required. Do not harvest within 14 days of application. A minimum of 14 days is required before harvesting potatoes. A maximum of 14 days is required before harvesting potatoes.

Active Ingredient
Diquat dibromide (6,7-dihydrodipyrido[1,2-a:2',1'-c]pyrazinedium dibromide) 35.3%
Inert Ingredients 64.7%
Contains 2 lbs. Diquat cation per gallon as 3.73 lbs. salt per gallon.

KEEP OUT OF REACH OF CHILDREN

WARNING

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Manufactured for

Chevron Chemical Company

Chevron Agricultural Chemicals Division
100 Franklin (A-541), 7144 E. Richmond CA 94804 C036

Product 2000-2 Made in U.S.A.

Form 2612-A EPA Est. 219 MO. 1

EPA Reg. No. 209-224 AA

**NET CONTENTS 5
GALLONS**

SUGARCANE (HAWAII ONLY): To Prevent Flowering (Tasseling) of Cane: 1 pt ORTHO Diquat 2 Spray plus 1 oz ORTHO X-77 spreader (one pint per acre). Apply during flower initiation period, first 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 1-5 months of harvest.

SUGARCANE (HAWAII ONLY): For Control of Emerged Annual Weeds and Suppression of Sedges, 1/2 inches or less in height, using a directed spray: 1 to 2 gals. 10 to 150 gal. water per acre. Add 1 oz. ORTHO X-77 spreader (one pint per 1 gal. water). Repeat as necessary. Use power sprayer with boom or hand sprayer with wand, directed as a coarse spray to thoroughly wet weeds in fields, in lawns and borders. Avoid contact sugarcane foliage. Spray drift on sugarcane leaves will cause injury. Use lower rate for control of weed seedlings and suppression of grasses. Use higher rate when weeds are 1 to 6 inches tall. Do not apply after top dress. Do not apply after top dress.

NON CROP OR NON PLANTED AREAS: Right 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, Mail Yards, Fence Lines and Parkways, Edges and Non Flooded Portions of Ponds, Lakes and Ditches, Also Around Ornamental Gardens, Walkways, Patios, Beneath Greenhouse Benches, Along Drive Ways and Around Golf Courses. To Kill Undesirable Above Ground Grass and Broad Leaf Weed Growth: Apply 1 qt. plus 4 oz. ORTHO X-77 spreader (one pint per 5 gals. water) ORTHO Diquat. Spray plus 1 teaspoonful ORTHO X-77 spreader (one pint) to 1/4 acre. Apply in a coarse spray to thoroughly wet contact with weeds. Apply to young weeds while under development; as weeds mature, re-treatment may be necessary to control grasses and established weeds. Avoid injury contact with foliage of food crops or ornamental plants.

AQUATIC USE DIRECTIONS

For application on or 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, swimming, spraying, irrigation, or domestic purposes for 14 days after treatment. Do not apply to aquatic sites in fruit.

WEED SPECIES

GALS / SURFACE ACRE

SUBMERSED WEEDS (Rivers, Streams, Lakes, Ditches or Portions Thereof)	
Bladderwort (<i>Utricularia</i> spp.)	1/2
Cootail (<i>Ceratophyllum demersum</i>)	2
Eldosia (<i>Eldosia</i> spp.)	1
Hare's foot (<i>Najas</i> spp.)	1
Jonquils (<i>Peltandra</i> spp.)	2
Watermilfoil (<i>Myriophyllum</i> spp.)	1/2

APPLICATION: In early season where submersed weed growth has not reached the surface apply ORTHO Diquat 2 Spray by pouring directly from the container into the water while moving slowly over the water surface in a boat. Distribute evenly over treated 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 ORTHO Diquat 2 Spray by pouring as above or injecting a diluted (1:20 to 1:1) solution below the water surface in strips no more than 10 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 2 Spray.

FLOATING WEEDS

Pennywort (<i>Hydrocotyle</i> spp.)	1/2
Race's Water Lettuce (<i>Salvinia natans</i>)	1/2
Water-hyacinth (<i>Eichornia crassipes</i>)	1/2
Waterlettuce (<i>Trapa striata</i>)	1/2

APPLICATION: Use 1 qt. water plus 1 pt. ORTHO X-77 spreader (one pint per 100 gal. water) should be applied as a overall spray for control of the above weeds. For aerial application to Waterlettuce, use 10 gals. of water per acre plus 1 pt. ORTHO X-77 spreader (one pint per 1 gal. water). Spray solution. The high rates of ORTHO Diquat 2 Spray should be used for late season application.

DUCKWEED (*Lemna* spp.)

1

APPLICATION: For 100 gal. water plus 1 pt. ORTHO X-77 spreader (one pint per 100 gal. water) care should be taken to thoroughly cover all plants on water and on damp marshy areas. Re-treatment of duckweed occurs readily from a treated areas. Re-treatment with ORTHO Diquat 2 Spray may be necessary to obtain season long control.

WEED SPECIES

GALS / 100 GALS. WATER

MARGINAL WEEDS (Rivers, Streams, Lakes, Ditches or Portions Thereof, Shores and Cut Banks, Etc.)	
Common Glasswort (<i>Salsola komarovii</i>)	1/2

APPLICATION: Use 1 qt. water plus 1 pt. ORTHO X-77 spreader (one pint per 100 gal. water) care should be taken to thoroughly cover all plants on water and on damp marshy areas. Re-treatment of duckweed occurs readily from a treated areas. Re-treatment with ORTHO Diquat 2 Spray may be necessary to obtain season long control.

ALGAE: ORTHO Diquat 2 Spray is effective against filamentous algae (*Cladophora* spp. and *Phragmopedia* spp.). Apply 1 qt. water plus 1 pt. ORTHO X-77 spreader (one pint per 100 gal. water) care for control. Application methods as for submersed weeds.

Formula For Parts Per Million (PPM) Recommendations

Gallons to use = p.p.m. recommended x acreage of water x average depth of water x 1/4

For Example: 1 p.p.m. recommendation, two acre pond, 4 feet average depth, 1/4 acre = 1/4 x 1/4 x 1/4 = 5.6 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.

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 herein. 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 parts of crops. Such risks occur even though the product is reasonably fit for the uses stated herein and even though label directions are followed. Buyer and user acknowledge and assume all risks and liability (except those assumed by Chevron under 1 above) resulting from handling, storage, and use of this material.



Chevron **ORTHO**

Diquat 2 Spray

(HERBICIDE)

SUPPLEMENTAL LABELING

Active Ingredient Diquat dibromide 16,7-dihydrodipyrido [1,2-a;2',1'-c] pyrazinidium dibromide By Wt.
Inert Ingredients 35.3%
 Contains 2 lbs. Diquat cation per gallon as 3.73 lbs. salt per gallon 64.7%

KEEP OUT OF REACH OF CHILDREN
WARNING
NOT FOR USE OR STORAGE IN OR
AROUND THE HOME.
REFER TO CONTAINER LABEL FOR
PRECAUTIONARY AND STORAGE AN
DISPOSAL STATEMENTS

ACQUATIC USE DIRECTIONS

For application to ponds, lakes, reservoirs, marshes, bayous, drainage ditches, and streams and rivers which are slowmoving or quiet and only by the Corps of Engineers or other Federal or State Public Agencies, or contractors or licensees under their direct control for the purpose of this supplemental listing, the restriction against application to aquatic sites in Florida does not apply.

Do not use the treated water for animal consumption, swimming, spraying, irrigation or drinking purposes for 14 days after treatment. At this time as an approved assay technique, FAM 11 Spectrometric Method shows that the water contains no more than 0.01 part per million of residual dibromide (calculated as the cation).

No application of fertilizer or manure will be permitted in fish processing resulting in the production of fish protein concentrate or fish meal is practiced. Before application, permission and approval of local and state authorities must be obtained.

WEED SPECIES	GALS./SURFACE ACRE
SUBMERSED WEEDS	
Bladderwort (<i>Utricularia</i> spp.)	1
Carex (Carex spp., Carex sp.)	1
Eldersedge (<i>Zizaniopsis</i> spp.)	1
Smartweed (<i>Polygonum</i> spp.)	1
Waterlettuce (<i>Microrhiza</i> spp.)	1

APPLICATION In the case of water hyacinth, weeded growth is harvested at the rate of 1 acre per month. Spraying is done directly from the bottom of the water where the plants grow. The water is sprayed with a fine mist to prevent the plants from being stripped 40 feet apart in their growth. This is the most effective method of control used by many districts.

但說到這裏，我真想哭。我真想哭，因為我不能給你一個完整的家。

FLOATING WEEDS

PLANTING WEEDS		
Pennywort (<i>Hydrocotyle umbellata</i>)	12	34
Savina (<i>Salvinia reticulata</i>)	12	34
Waterhyacinth (<i>Eichhornia crassipes</i>)	12	34
Waterlettuce (<i>Pistia stratiotes</i>)	12	34

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 2 Spray should be used for late season application.

Buckwheat (Fagopyrum esculentum)

APPLICATION: For control, apply ORTHO Diquat 2 Spray 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 ORTHO Diquat 2 Spray may be necessary to obtain season long control.

WEED SPECIES GALS / 100 GALS. WATER
MARGINAL WEEDS:
Cattails (*Typha* spp) 10

APPLICATION: 1- 1 pt. + 1 apply ORTHO Diquat 2 Spray 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 Digest 2 Spray™ will control certain filamentous algae Spirogyra spp. and Ectocarpus spp. Apply 0.5 to 1.5 ppm w ORTHO Digest 2 Spray™. Control Application methods as for submersed weeds.

Formula For Parts Per Million (PPM) Recommendations

Gallons to use = ppm recommended x acreage of water x average depth of water x 1.4

For example: 1 ppm recommendations two acre pond, 4 feet average depth: $1 \times 2 \times 4 = 14$. 56 gals required.

CONDITIONS OF SALE: I, Chevron Chemical Company (Chevron), warrants that this material conforms to the technical description on the label and is
merchantability fit for use as directed herein. Chevron neither makes nor
authorizes any agent or representative to make any other warranty.
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as expressly set forth in this material.

2 Critical and unforeseeable factors beyond Chem-A's control from eliminating all risks in one turn 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 may occur even though the product is reasonably fit for the purposes stated herein and even though label directions are followed. Buyer and user acknowledge and accept these risks and hereby except those assumed by Chem-A only if it is specifically mentioned during delivery and use of this material.

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