

PM 23
239-1663

Diquat Water Weed Killer
EPA Reg. No. 239-1663
August 28, 1987

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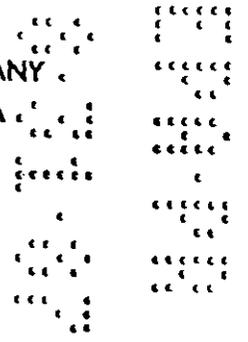
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Not For Homeowner Use.

ACCEPTED
SEP 4 1987
Under the Federal Insecticide, Fungicide, and Rodenticide Act, or classified for the pesticide registered under EPA Reg. No. **239-1663**

CONFIDENTIAL

PROPERTY OF
CHEVRON CHEMICAL COMPANY
UNTIL ACCEPTED BY EPA



Helping the World Grow Better®

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**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 on contact with irritated skin, or a cut, or repeated contact with skin may result in poisoning. Do not get in eyes or on clothing. Do not breathe spray mist. Wash thoroughly with water 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, 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 out of treated fields and crop areas.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: IMMEDIATELY give water or milk to drink and induce vomiting by inserting finger in throat. Take person to nearest container to the nearest hospital or physician fast. **POISON TREATMENT IS ESSENTIAL TO COUNTERACT POISONING** and should be initiated before signs and symptoms of injury appear. **Physicians:** call the Chevron Poison Information Center (415) 3737 at any hour to obtain toxicology information and a diagnostic analysis. To be effective, treatment for diquat poisoning must be **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.

SKIN CONTACT: IMMEDIATELY wash with soap and water. Wash 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.

EYE CONTACT: IMMEDIATELY wash eyes with water for at least 15 minutes and get medical attention.

INHALATION: IMMEDIATELY get away from spray mist. Stop work and check spray procedure. See a doctor if irritation persists.

WORKER SAFETY RULES
Keep all unprotected persons and children away from treated areas 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 help right away. (See Practical Treatment Section).

ENVIRONMENTAL HAZARDS (AQUATIC USES)

This pesticide is toxic to wildlife. Do not apply directly to water except as specified on this label. For Non-Aquatic Use do not apply directly to water or wetlands (swamps, bogs, marshes and ponds). Do not contaminate water by cleaning of equipment or disposal of wastes. 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. Treatment of dense weed areas can result in oxygen loss from the composition of dead weeds. This loss can cause fish suffocation. Therefore, treat only 1/4 to 1/2 of the dense weed areas at

EPK

REENTRY STATEMENT

Persons out of operating areas or vicinity where

not enter or allow entry of agricultural or main- treated areas within 24 hours after treatment ng is worn. When contacting sprayed vegetation r rain, wear waterproof footwear and clothing. not enter treated areas while treatments are in

in treated areas within 14 days after treatment. ire more restrictive reentry intervals; consult your griculture for further information.

gs regarding use of protective clothing and acci- be given to workers who are expected to be in as about to be treated. Oral warnings must be on to believe that written warnings cannot be

e given, warnings shall be given in a language by workers and must indicate the specific period eas may not be entered without protective cloth- st also include appropriate first aid instructions exposure. These instructions are given in the CAL TREATMENT at the beginning of this label.

include the following information, "WARNING. io Diquat Water Weed Killer on (date of applica- ated areas without appropriate protective cloth- ired (or other reentry interval if your State has erval for this product). If accidental exposure ctions below." (Written warnings must include RACTICAL TREATMENT given at the beginning

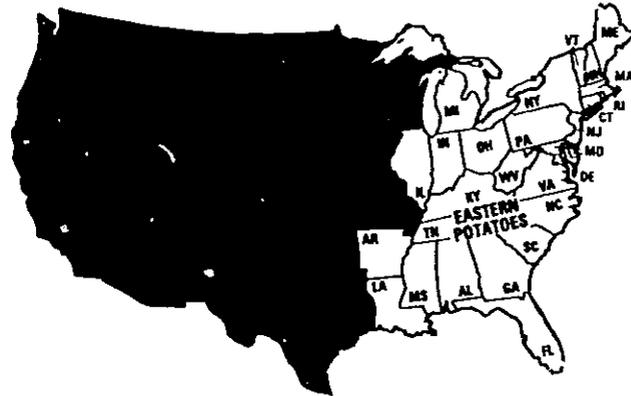
eed Killer is a non-volatile herbicidal chemical on of certain plants in preharvest application in mechanical and hand harvesting. It is also rec- general weed killer and as an aquatic weed killer. al action is usually quite rapid with effects visible se on lawns. Rinse all spray equipment thoroughly OIO SPRAY DRIFT to crops which may be damaged ORTHO X-77 Spreader (non-ionic). ORTHO X-77 ed, but a similar and suitable labeled non-ionic stituted. Do not use dirty or muddy water for it will be inactivated.

INTED AREAS: Rights-Of-Way, Including Railroads, ers and Medians, Pipelines, Public Utility Lines, ons, Transformer Stations and Substations. Around ercial Buildings, Manufacturing Plants, Storage e Lines and Parkways, Edges and Non-Flooded s and Ditches. Also Around Ornamental Gardens, ath Greenhouse Benches, Along Driveways and To Kill Undesirable Above Ground Grass and t—1 to 2 qts. plus 8 to 16 oz. ORTHO X-77 r 100 gals. water (4 tsp. ORTHO Diquat Water p. ORTHO X-77 Spreader (non-ionic) to 1 gal. coverage and thorough weed contact. Apply to ntrol decreases as weeds mature. Retreatment ontrol grasses and established weeds. Avoid ge of food crops or ornamental plants.

N SORGHUM, SOYBEANS (Seed Crops Only): 1½ hin Stages of Seed Alfalfa—1 pt. per acre. ily): 1 qt. per acre. Preharvest Desiccation of -Use specified dosage in 15 to 30 gals. water by 1 and 5 qt. to gals. water by air. On Alfalfa, Clover is complete in 3 to 10 days. In Grain Sorghum, ks of harvest and when seeds have not more than eans, apply 1 week before harvest. Do not graze eated forage to livestock. Do not use seed from feed or other purposes.

r Desiccation of Potato Plants to Facilitate Har-

thorough coverage. Make a second application if necessary to obtain adequate desiccation where vine growth is dense. Allow a minimum of 5 days between applications. Do not apply to drought stressed potatoes. Applications should be made at least 7 days before harvest. Add ORTHO X-77 Spreader (non-ionic) at 8 to 16 fl. oz. per 100 gals. of spray mix.



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 (HAWAII ONLY): For Control of emerged annual weeds and suppression of sedges, six inches or less in height, using a directed spray —1 to 2 qts. in 50 to 100 gals. water per acre. Add 8 oz. ORTHO X-77 Spreader (non-ionic) per 100 gals. 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, roadways and borders. Avoid contacting sugarcane foliage. Spray drift on sugarcane leaves will cause injury. Use lower rate for control of weed seedlings and suppression of sedges. Use higher rate when weeds are 3 to 6 inches tall. Do not apply after crop closes in.

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.

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.

WEED SPECIES

GALS./SURFACE ACRE

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

APPLICATION: In early season where submersed weed growth has not reached the surface apply ORTHO Diquat Water Weed Killer by pouring

FLOATING WEEDS

Pennywort (*Hydrocotyle umbellata*)
Salvinia (*Salvinia rotundifolia*)
Waterhyacinth (*Eichhornia crassipes*)
Waterlettuce (*Pistia stratiotes*)

APPLICATION: 150 to 200 gals. (non-ionic) should be applied as weeds. For aerial application to acre plus 1 pt. ORTHO X-77 S solution. The high rates of ORI used for late season application Duckweed (*Lemna* spp.)

APPLICATION: For control, apply overall spray in 50 to 150 gals. (non-ionic) per acre. Care should be given to plants on water; and on damp weed occurs readily from unfertilized Diquat Water Weed Killer material.

WEED SPECIES

MARGINAL WEEDS (Infesting Lakes and Ditches):

Cattails (*Typha* spp.)

APPLICATION: For top kill, apply 4 gals. water plus 1 pt. ORTHO X-77 and thorough weed contact. Repeat as necessary. For best results apply by hand. For control of submersed weeds, use ORTHO Diquat Water Weed Killer.

Formula for Paris Per Million (ppm): Gals. to use = ppm. recommended rate x 1.4. For example—1/2 x 1.4 = 0.7. For 4 feet average depth; 1/2 x 2 x 1.4 = 1.4. Do not apply under conditions where other plantings that might be damaged by drift are present.

STORAGE

PROHIBITIONS

Do not contaminate water, food, or feed of equipment. Open dump

STORAGE

Keep pesticide in original container. Do not use for drinking water. Do not store at temperatures above 100°F. For help with any spill, leak, call day or night (415) 233-37

PESTICIDE DISPOSAL

This product is acutely hazardous. Do not use for drinking water. Do not store at temperatures above 100°F. For help with any spill, leak, call day or night (415) 233-37

CONTAINER DISPOSAL

Triple rinse (or equivalent). Do not puncture or burn. Do not use for drinking water. Do not store at temperatures above 100°F. For help with any spill, leak, call day or night (415) 233-37

CONDITIONS OF SALE: 1. Check that this material conforms to label. 2. This material is reasonably fit for use as directed.

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