

37347-6

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EPA FILE SYM: 37347-A CHEM. CODE #032201

*Additional Brand Name Request: "WEED-OUT" Non-Selective Vegetation Killer

*Additional Brand Name Request: "LIQUID EDGER" Non-Selective Vegetation Killer

This copy in response to EPA letter dated 08-13-87.....

UNI-CHEM™

AQUA-KIL PLUS

A CONTACT NON-SELECTIVE VEGETATION KILLER FOR THE CONTROL OF BROADLEAF WEEDS, GRASSES AND AQUATIC WEEDS

Daing

WEED CONTROL IN AQUATIC SITES & TERRESTRIAL NON-FOOD AREAS
Non Crop areas include Rights-of-Way, Substations, Areas around Electrical Utilities, Commercial Buildings, Manufacturing Plants, Storage Yards, Rail Yards, and Non-Flooded portions of Ponds, Lakes, and Ditches.

FOR USE AROUND GOLF COURSES, HOMES, APARTMENTS, CONDOMINIUMS in Ornamental Gardens, Walkways, Patios, beneath Greenhouse Benches, Fence Lines, Parkways, Driveways, Cart Paths, Sand Traps, Ornamental Shade Trees and Shrubs.

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.

KILLS ONLY THROUGH CONTACT WITH LEAVES - BECOMES INACTIVE ON SOIL CONTACT.

This herbicidal chemical when used as directed will kill most all forms of plant growth without damage to the soil. Absorption & herbicidal action is usually quite rapid with effects visible in a few days.

FOR SPOT WEED CONTROL 1 GALLON MAKES 21 GALLONS OF READY-TO-USE SPRAY

ACTIVE INGREDIENT:

Diquat Dibromide [6,7-(Dihydro-1,2,4-triazolo[4,3-b]pyridin-2-yl)-1,2,4-triazine-5,6-dibromide] 1.85%

INERT INGREDIENTS 98.15%

Contains .083 lb. Diquat Cation per gallon of 155 lb. Salt per Gallon

ACCEPTED
SEP 23 1987
with comment
The Federal Insecticide, Fungicide, and Rodenticide Act
as amended, for the Pesticide
Registration Act
EPA Reg. No. 37347-6

KEEP OUT OF REACH OF CHILDREN

C A U T I O N

STATEMENTS OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center immediately. Induce vomiting by drinking 1 or 2 glasses of water and touching back of the throat with finger. Do not induce vomiting or give anything by mouth to an unconscious or convulsing person.

IF IN EYES: Flush eyes immediately with plenty of clean fresh water. Get medical attention if irritation persists.

IF ON SKIN: Remove contaminated clothing and wash affected area with soap and warm water. Get medical attention if irritation persists.

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

EPA REG NO. 37347-A

EPA EST. NO. 37347-FL-1

NET CONTENTS 1 GALLON (5 GAL.; 30 GAL.)

UNI-CHEM CORPORATION OF FLORIDA

SPECIALISTS IN PRODUCTS FOR THE TURF INDUSTRY

P.O. BOX 6336

FT, LAUDERDALE FLORIDA 33310

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. *Do not breathe spray mist.* Avoid contact with skin, eyes and clothing. Wash thoroughly after using and before eating or smoking. Repeated contact with skin or contact with open cuts or sores may increase the hazard associated with this product. Do not feed forage from treated areas to livestock. Keep livestock out of treated areas.

ENVIRONMENTAL HAZARDS

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 potholes). Do not contaminate water by cleaning of equipment or disposal of wastes.

IMPORTANT: 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. Aquatic 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 dense weed areas at a time and wait 14 days between application. **DO NOT APPLY TO MUDDY WATER.** Do not create muddy water during application. Do not apply under conditions of high wind & wave action. Do not apply where plants are covered with mud deposits. Do not use treated water for animal consumption, swimming, spraying, irrigation, or for domestic purposes within 14 days after treatment.

RE-ENTRY STATEMENT & WORKER PROTECTION

Do not allow re-entry of maintenance personnel into treated areas within 24 hours after treatment unless protective cloths is worn. Do not allow swimming in treated areas within 14 days after treatment.

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. Do not dilute with muddy water since herbicidal effect will be deactivated. Wash sprayer immediately after use with detergent and water, then rinse with fresh water. The dosages for this chemical are calculated using the "cation" content by weight. Do not apply this product through any type of irrigation equipment.

Chemigation PR Note

STORAGE AND DISPOSAL

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

STORAGE: Store product in original labeled container in a cool, dry, locked place out of reach of children. Keep container tightly closed when not in use. Store at temperatures above 32°F in an area designated for herbicides.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: 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.

Wastes resulting from use of this product must be disposed of according to applicable Federal, State, or local procedures.

EPA FILE SYM: 37347- (AQUA-KIL PLUS)

GENERAL WEED CONTROL

IN TERRESTRIAL NON-CROP AREAS

Mix 1 1/2 TO 2 1/2 gallons in 20 gallons of water (= 8 to 15 oz /gallon of water). 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 most all undesirable Annual and Perennial Broadleaf weeds including Florida Pusley, Spotted and Prostrate Spurges spp., Burning Nettle, Chickweed, Creeping Charlie, Red Sorrel, and Weedy Grasses such as Sandbur, Crabgrasses, Annual Bluegrass, Goosegrass and Nut Sedge.

HOW AND WHEN TO USE

Apply for full coverage and thorough weed contact. Apply preferably to young growth and up to time seeds are formed. Repeat applications as necessary to maintain control, particularly on grasses and established weeds. Do not allow spray to contact foliage of food crops or ornamental plants. Do not water treated areas for 24 to 36 hours after application. Always direct spray nozzle "downwind".

GOLF COURSES

DORMANT FAIRWAYS - For use as a "DIRECTED" weed control spray on DORMANT Bermudagrass, Centipedegrass, St. Augustinegrass and Zoysiagrass Fairways. Thoroughly wet weeds and repeat applications for new growth of perennials and late germinating annual weeds. Use 5.5 to 10.75 gallons in 100 gallon of water per acre.

For control of Nut Sedge and other grassy weeds in SAND TRAPS and other Golf Course weed control see SPOT WEED CONTROL below.

FOR SPOT WEED CONTROL MIX 1 GALLON IN 20 GALLONS OF WATER (Equivalent to 6 1/2 Ounces in 1 Gallon of water)

SPOT WEED CONTROL IN LAWNS WILL KILL UNDESIRABLE GRASSES MAKES SPOT WEED CONTROL EASY

FOR SAND TRAPS, GOLF CART PATHS, AROUND SPRINKLER HEADS, AROUND BUILDINGS, TREES AND SHRUBS, PARKWAYS, FENCE ROWS, AND STORAGE AREAS EQUIPMENT SHEDS.

OTHER NON-CROP AREA USES

Non Crop areas include Rights-of-Way, Substations, Areas around Electrical Utilities, Commercial Buildings, Manufacturing Plants, Storage Yards, Rail Yards, and Non-Flooded portions of Ponds, Lakes, and Ditches. Mix 1 gallon with 20 gallons of water as a directed weed control spray. Application may be made at any time during the growing season. Spray until weeds are wet. Repeat application should be made to control Perennials and late germinating Annual weeds. Do not water treated areas for 24 to 36 hours after application.

WEED CONTROL IN ORNAMENTAL GARDENS, AROUND ORNAMENTAL SHADE TREES AND WOODY SHRUBS

For general weed control in shrub areas. Chemical will not injure desirable plants as long as spray does not come in contact with leaves of these plants. For control of broadleaf and grassy weeds growing near ornamentals dilute 1 part in 20 parts water (add UNI-STIK APPROVED SURFACTANT as recommended), and directly SPOT SPRAY weeds. Use a shield to protect desired foliage from spray particle drift. Treat when weeds are 1 to 6 inches high. Thoroughly wet weeds. Repeat application as needed for new growth of perennial weeds.

AQUA-KIL PLUS

>Alternate copy is displayed below this line.....

FORMULA FOR PARTS-PER-MILLION (PPM) RECOMMENDATIONS

Gallons To Use = p.p.m. recommended x acreage of water x average depth of water x 28. For Example: If the recommendation is 1/2 p.p.m. for a 2 acre pond with an average depth of 4 feet - multiply 1/2 x 2 x 4 x 28 = 112 Gals. AQUAKIL required for the job!

DILUTION CHART FOR AQUATIC USE USING PARTS PER MILLION

Depth of water in Feet	Gallons of 1.85% Concentrate to Use per Acre to get indicated Parts Per Million			
	Cation by weight			
	1/2 ppm	1 ppm	1 ppm	1 1/2 ppm
1	7 gal	14 gal	28 gal	42 gal
2	14 "	28 "	56 "	84 "
3	21 "	42 "	84 "	126 "
4	28 "	56 "	112 "	168 "
5	35 "	70 "	140 "	210 "

>Alternate copy is displayed above this line.....

FLOATING WEED CONTROL

SPECIES OF FLOATING WEEDS	GALS. AQUA-KILL+TO USE/150-200G WATER
PENNYWORT (Hydrocotyle umbellata)	10 to 15 gals.
SALVINIA (Salvinia rotundifolia)	10 to 15 gals.
WATER HYACINTH (Eichhornia crassipes)	10 to 15 gals.
WATER LETTUCE (Pistia stratioties)	10 to 15 gals.

Surfactant

See Duckweed control under Foliage Spray Treatment

As indicated, add the above amount of AQUAKIL PLUS to 150 to 200 gallons of water. Thoroughly Spray all Floating Weeds. The higher rate (15 gallons per 150 to 200 gallons of water) should be used for late season applications when plants are usually well established. Add 1 pint of Uni-Stik Approved Surfactant for each 150 to 200 gallon tank mix.

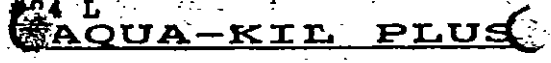
CATTAIL WEEDS

Use for control of CATTAIL (Typha) weeds infesting the edges and other portions of Ponds, Lakes and Ditches. For top kill apply 20 gallons in 100 gallons of water plus 1 pint of UNIT-STIK APPROVED SURFACTANT. Repeat treatments will be necessary to control regrowth. For best results apply before flowering.

FOLIAGE SPRAY TREATMENTS

Apply the amount of concentrate (from chart below) in sufficient water (150 - 200 gals. per acre) to thoroughly wet foliage. As the season progresses and vegetation increases in mass the higher dosages indicated should be used and more uniform distribution is necessary. Local conditions may affect the use of this chemical. Consult Agricultural Experiment Station or Extension Service Weed Specialists for specific recommendations as to dosage and time of application and for control of other weeds. Check with State authorities for necessary permits

FOLIAGE SPRAY TREATMENTS	AMOUNT PER ACRE
Selumis (Salymis rotundifolia)	10 to 15 gallons
Water Hyacinth (Eichornia crassipes)	10 to 15 gallons
Water Lettuce (Pistes stratioties)	10 to 15 gallons



DUCKWEED CONTROL

Apply this product as an overall spray using 20 gallons of AQUAKIL PLUS in 100 to 150 gallons of water per acre. (equals 1.66 lbs. A.I. per acre) Make sure to add UNI-STIK APPROVED SURFACTANT as recommended. Care should be taken to thoroughly cover all plants on water and on damp marginal areas. Re-infestation of duckweed occurs readily from untreated areas. Retreatment may be necessary to obtain season long control. Apply before flowering of weeds or as a late season treatment. DUCKWEED (Lemna; Spirodela spp.)

NOTICE: Buyer and user assume all risk and liability of use, storage and/or handling of this product not in accordance with the terms of this label.

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LABEL COPY TO ACCOMPANY THE ADDITIONAL BRAND NAME REQUEST
UNI-CHEM LIQUID EDGER
(Request As noted on EPA form 8570-1.)

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Front Panel Copy

**UNI-CHEM™ LIQUID EDGER
CONCENTRATE**

FOR USE AROUND HOMES, APARTMENTS, CONDOMINIUMS
AND Non Crop areas include Rights-of-Way, Substations, Areas around Electrical Utilities, Commercial Buildings, Manufacturing Plants, & Storage Yards.

KILLS WEEDS & GRASSES IN WALKS, DRIVES AND PATIOS

KILLS ANNUAL WEEDS IN DORMANT BERMUDAGRASS

ACTS AS A CHEMICAL GRASS EDGER
KEEPS GRASS FROM CREEPING INTO UNWANTED AREAS

.....
(active ingredient statement inserted here)
(Precautionary Statements...Signal Word.... Statements of Pract. Trmt)
(Product contents...EPA Reg. & Est. No.)
(Registrant name and address)

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ALL PRECAUTIONARY STATEMENTS AS FOUND ON PAGE 2 OF 7 IN THIS DOCUMENT WILL BE PLACED INTO THE COPY HERE FOR THIS LIQUID EDGER LABELING COPY.

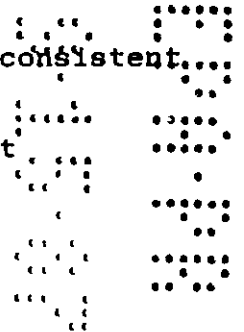
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Back Panel Copy ...

DIRECTIONS FOR USE

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

HOW TO MIX

FIRST: Dilute 6 1/2 Oz. of product in 1 gallon of water to treat 300 Sq.Ft. or a 6 inch band for 600 feet of edging.



Continued... LABEL COPY TO ACCOMPANY THE ADDITIONAL BRAND NAME REQUEST
UNI-CHEM LIQUID EDGER

WHERE TO USE

Use in most areas wherever weeds or "Creeping Grasses " such as Bermudagrass, St. Augustine, Centipede, Bahia, or Zoysiagrass present a problem by growing onto Patios, Driveways and into areas where they are not wanted. For best results, spray the new "creeping grass tenacles" as soon as they become troublesome and when they are young and tender. Do not let spray drift to desirable ornamental plants or to food crops.

DRIVEWAYS, PATIOS, WALKS, TREE WELLS, around SHRUBS & FLOWER BEDS, around and beneath FENCES; in GRAVEL, BARK or PEAT MOSS GROUND COVER and/or MULCH.

FOR QUICK AND EASY SPOT WEED TREATMENT AND CLEAN-UP OF THE ABOVE GROUND WEED GROWTH OF THE FOLLOWING BROADLEAF AND GRASSY WEEDS
PARTIAL LISTING OF WEEDS

Annual Blue Grass, Chickweed, Crabgrass, Florida Pusley, (Grasses which creep over, under or around Lawn Edging; and that have grow-up through Paved Patios, Walkways, and Driveways such as Bahia Grass, Bermudagrass, Centipedegrass, St. Augustinegrass, & Zoysiagrass), Foxtail, Garden Spurge, Goosegrass, Henbit, Knotweed, Lambsquarter, Mayweed, Oxalis, Pigweed, Prickley Lettuce, Purslane, Puncture Vine, Redroot Pigweed, Sandspur, Shepards Purse, Sowthistle, Smartweed, St. Augustine grass, Velvetweed, Wild Geranium,

HOW TO APPLY

Select a suitable Plastic Spray Bottle with a Trigger-Spray attachment and after mixing 6½ ounces in 1 gallon of water add diluted material to the reservoir. Apply directly to undesirable weedy growth to completely wet the weed foliage that you want to kill. Kills the above ground weed growth as a contact weed killer. Desirable plants, if accidentally sprayed, may be saved by immediately washing off the spray or pruning the area touched by spray.

Susceptible weeds "brown out" and are destroyed. Re-spray perennial weed "top-growth" when patches of green reappear. If perennial weed growth continues to be a serious overall problem inquire about a "Bare Ground" weed killer for that purpose.

This product controls annual weeds and grasses and gives effective top kill of troublesome perennial broadleaf weeds and grasses. One application will brown out most surface growth.

WINTER ANNUAL WEED CONTROL IN ESTABLISHED DORMANT BERMUDA GRASS

Apply Only to Dormant Ornamental and/or Recreational Bermudagrass (Do not apply to Food or Feed Crops): For use in the suppression of Emerged Annual Broadleaf Weeds and Grassy Weeds Including Little Barley, Annual Bluegrass, Bromes, Buttercup and Carolina Geranium in Established Dormant Bermudagrass Lawns. Directly treat weeds wetting them just to point of spray runoff. For Little Barley apply before the mid-boot stage. Application to actively growing Bermudagrass will cause delay or permanent injury to the turf. Do not allow spray to drift onto ornamental plants or food crops.

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