



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

JAN 31 2000

Debbie Wyzlic  
Realex  
Division of United Industries Corporation  
P.O. Box 15842  
St. Louis, MO 63114

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Dear Ms. Wyzlic:

SUBJECT: Label Amendments  
Real-Killer Broadleaf Weed Killer  
EPA Registration No. 478-121  
Your Submission dated September 14, 1999

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable provided the following change is made:

Under the directions for refilling Chemisco Spot Weed Killer A power pump add: "The Power Pump can be refilled up to 5 times with Real-Kill Broadleaf Weed Killer. **IMPORTANT:** Do not refill more than 5 times. Do not use any product other than Real-Kill Broadleaf Weed Killer in this Power Pump. Incompatible chemicals may damage the pump making it useful to use."

A stamped copy of the labeling is enclosed for your records. Please submit one copy of the final printed labeling incorporating the above change before you release the product.

The Agency has recently revised its recommended First Aids statements for pesticide products and intends to issue a PR Notice announcing the changes in the near future. In the interim we are encouraging registrants to begin using the new statements. The new statements

M. C. C. K. E.  
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were developed as part of the Consumer Labeling Initiative in close cooperation with poison control center personnel and other medical experts. While it is not mandatory that you revise your label at this time, you are strongly encouraged to substitute the revised statements for those statements currently on the label as your next label printing. A copy of the new statement is enclosed.

Sincerely yours,

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

Enclosure

Real-Kill® Broadleaf Weed Killer

EPA Reg. No. 478-121

ACCEPTED  
with COMMENTS  
In EPA Letter Dated

JAN 31 2000

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

FN: R121.A8

9/14/99

478-121



## BROADLEAF WEED KILLER

[Treats Northern and  
Southern Grasses  
Bluegrass, Fescue,  
Zoysia, Bermuda, St.  
Augustine, Bentgrass,  
Centipede, Bahia, Rye]

[Kills the Weeds, not the Lawn • Kills 33+  
Weed Types Roots and All • Kills 33+ Weeds]

[Kills weed roots • Kills Dandelion, Chickweed, Wild onion,  
Plantain, Poison ivy and many others. Weed details on back  
• See Results in Hours • Overnight results • Rain fast in hours  
• Rainproof in hours • Economical Concentrate • Water-Based  
• 1 quart treats up to 16,000 square feet • Treats 16,000 sq. ft.  
of Southern grasses or 8,000 sq. ft. of Northern grasses]

### Active Ingredients:

* 2,4-D, dimethylamine salt	7.59%
† Mecoprop, dimethylamine salt	3.66%
‡ Dicamba, dimethylamine salt	0.84%
Other ingredients	87.91%
* 0.543 lb. 2,4-D acid equivalent per gallon or 6.30%. † 0.26 lb. Mecoprop acid equivalent per gallon or 3.02%. ‡ 0.059 lb. Dicamba acid equivalent per gallon or 0.69%.	

KEEP OUT OF REACH OF CHILDREN

CAUTION See back [booklet] for additional precautionary statements

NET CONTENTS 32 FL. OZ./1 QUART

### OPTIONAL CLAIMS

[Won't harm lawn grasses • Won't harm the lawn • Especially effective on all types of hard-to-kill weeds • Kills 66+ types of weeds • Kills weed roots! • Kills all major broadleaf weeds • Dilutable concentrate • Clear-view measuring window • For home lawn care • Kills over 66 weed types including dandelions, chickweed, wild onions, plantain and poison ivy • Kills broadleaf weeds in lawns]

[Real-Kill Broadleaf Weed Killer kills all major broadleaf weeds, roots and all. And Real-Kill Broadleaf Weed Killer is formulated to kill only the weeds, not the lawn. Use as directed to kill all major broadleaf weeds in your lawn.]

[Real-Kill Broadleaf Weed Killer controls more than 66 troublesome weeds including dandelions, clover, plantain and wild onion. It kills even woody weeds like poison ivy and poison oak in both northern and southern lawns.]

This *concentrated* formula covers 16,000 sq. ft. of Southern grasses or 8,000 sq. ft. of Northern grasses per quart.

[ALTERNATE: This *concentrated* formula covers up to 16,000 sq. ft. per quart. See specific directions for St. Augustine and other Southern grasses.]

**WEEDS CONTROLLED:** Bedstraw, Black Medic, Buckhorn, Burdock, Chickweed, Chicory, Clover, Dandelion, Dock, Ground Ivy, Heal-All, Henbit, Knotweed, Lambsquarters, Lespedeza, Mallow, Morning glory, Oxalis, Poppergrass, Pepperweed, Pigwood, Plantain, Poison Ivy, Poison Oak, Purslane, Ragweed, Sheep Sorrel, Shepherd's Purse, Speedwell, Spurge (Spotted), Wild Carrot, Wild Garlic, Wild Lettuce, Wild Onion, Yarrow and other problem broadleaf weeds.

[Optional Placement: NOTE: DO NOT USE ON FLORATAM VARIETY OF ST. AUGUSTINE GRASS IN FLORIDA.]

### ADDITIONAL OPTIONAL WEEDS

Aster, Bedstraw, Bindweed, Bristly oxtongue, Carolina geranium, Carpetweed, Cinque foil, Cranesbill, Creeping woodsorrel, Cudweed, Deadnettle, Dog fennel, Dollarweed, English daisy, False dandelion, Fleabane, Filaree, Hairy bittercress, Hawkweed, Kochia, Matchweed, Mustard, Pearlwort, Pennygrass, Pennywort,

Prickly lettuce, Prostrate vervain, Puncturevine, Red sorrel, Scarlet pimpernel, Soliva, Spotted catsear, Spurweed, Thistle, Wild violet, Wild geranium, Yellow rocket

### STOP. READ ENTIRE LABEL BEFORE USE

[STOP. READ ALL INSTRUCTIONS INSIDE BEFORE USING.]

### DIRECTIONS FOR USE

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

SHAKE WELL BEFORE USING.



(Graphic optional)

People and pets should not be allowed in treated areas until spray has dried.

### MEASUREMENT CALCULATIONS

Calculate square foot by multiplying length by width. 1 fl. oz. = 2 tablespoons (6 teaspoons); 2 fl. oz. = 4 tablespoons; 4 fl. oz. = 1/2 cup; 8 fl. oz. = 1 cup; 16 fl. oz. = 1 pint; 32 fl. oz. = 1 quart

### WHEN TO USE

- 1) SPRING: The best time to treat weeds is when they are small and growing.
- 2) FALL: Many problem weeds germinate in the fall and a treatment then will eliminate many of next year's weeds.

### HOW MUCH TO USE

#### SPOT TREATMENT

To spray small areas or individual weeds, use a pressure sprayer for better control. Do not use a hose-end sprayer. Mix 1 fl. oz. (2 Tbsp.) in one gallon of water. Shake well before spraying. Be certain to wet each weed.

[ALTERNATE: Do not use a hose-end sprayer to spot treat. To spray small areas or individual weeds, use a pressure sprayer for better control. Mix 1 fl. oz. (2 Tbsp.) in one gallon of water. Shake well before spraying. Be certain to wet each weed.]

#### ENTIRE LAWN

### PRESSURE SPRAYERS (Optional Directions)

Measure amount of concentrate from chart below into sprayer

tank and dilute with 1 gallon of water. Close tank sprayer and shake well before spraying. Use a spray pattern that gives small spray droplets without any fine mist to treat 250 sq. ft.

AMOUNT OF CONCENTRATE IN 1 GALLON WATER REQUIRED TO TREAT 250 SQ. FT. OF LAWN	
GRASS TYPE	AMOUNT OF CONCENTRATE
St. Augustine*, Bahia, Centipede	1/2 fl. oz. (1 Tbsp.)
Bermuda, Bentgrass	2/3 fl. oz. (4 tsp.)
Bluegrass, Fescue, Rye, Zoysia	1 fl. oz. (2 Tbsp.)

\*DO NOT USE ON FLORATAM VARIETY OF ST. AUGUSTINE GRASS IN FLORIDA.

**HOSE-END SPRAYERS** (Optional Directions)

**"CONCENTRATE ONLY" (DIAL) SPRAYERS**

- 1) From the chart below determine amount of concentrate to be applied for each 250 sq. ft. of lawn.
- 2) Fill sprayer jar with enough concentrate to cover area to be treated. Do not add water to sprayer.
- 3) Set dial on sprayer to the setting from the chart below.
- 4) Attach sprayer to hose. Extend hose to the farthest area of lawn to be treated and work back toward faucet so that you do not walk over treated areas. Apply evenly to lawn.

Grass Type	Dial Setting	Area Treated	Oz. In Sprayer
St. Augustine*, Bahia, Centipede	1/2 fl. oz.	250 sq. ft.	1/2 fl. oz.
		1,000 sq. ft.	2 fl. oz.
Bermuda, Bentgrass	2/3 fl. oz.	250 sq. ft.	2/3 fl. oz.
		1,000 sq. ft.	2 2/3 fl. oz.
Bluegrass, Fescue, Rye, Zoysia	1 fl. oz.	250 sq. ft.	1 fl. oz.
		1,000 sq. ft.	4 fl. oz.

\*DO NOT USE ON FLORATAM VARIETY OF ST. AUGUSTINE GRASS IN FLORIDA.

**EXAMPLE:** To treat 1,000 sq. ft. of Fescue lawn, add 4 fl. oz. of concentrate to the sprayer with sprayer dial set on 1 fl. oz. Check

the directions you received when you purchased your sprayer for further details on the proper use of your dial sprayer.

**"CONCENTRATE-PLUS-WATER" SPRAYERS**

For sprayers that require [the] addition of water as well as concentrate prior to application [treating]:

- 1) From the following chart [chart below], determine amount of concentrate required to treat each 250 sq. ft. of lawn.
- 2) Pour concentrate into sprayer jar to the required "fl. oz." level.
- 3) Then add the appropriate amount of water to the "gals." level. Replace sprayer top on jar and shake well before spraying.
- 4) Attach sprayer to hose. Extend hose to the farthest area of lawn to be treated and work back toward faucet so that you do not walk over treated areas. Apply evenly to lawn.

**OUNCES OF CONCENTRATE TO USE FOR:**

Sq. Ft. to Be Treated	St. Augustine* Bahia Centipede	Bermuda Bentgrass	Bluegrass, Fescue, Rye, Zoysia	Gallons of Water
250	1/2	2/3	1	1
1,000	2	2 2/3	4	4
5,000	10	13 1/3	20	20
8,000	16	21 1/3	32	32

\*DO NOT USE ON FLORATAM VARIETY OF ST. AUGUSTINE GRASS IN FLORIDA.

**EXAMPLE:** To treat 1,000 sq. ft. of Fescue pour in concentrate to the 4 fl. oz. mark and add water to the 4 gallon mark. Check the directions you received when you purchased your sprayer for further details on the proper use of your sprayer.

**READY SPRAY NOZZLE** (Optional Directions)

[Optional Marketing Phrase for a Ready-Spray Product: Just connect to your garden hose and spray!]

**[HOW TO USE]**

1. Shake container well before using.
2. Connect a garden hose to the ready spray nozzle. Make sure the yellow [large round] water control dial on the nozzle is in the "OFF" position (tab is vertical).

3. Turn on water at faucet. Extend hose to the farthest area of lawn to be treated and work back toward faucet so that you do not walk over treated areas. Twist the small, star-shaped [yellow] product concentrate control button to align the flat portion with the lock tab. Push the button in to open.

4. To BEGIN spraying, point nozzle toward lawn and turn the yellow [large round] water control dial to the "ON" position (tab is horizontal). Water will automatically mix with the concentrate.

Walk at a steady pace while spraying using an even sweeping motion, slightly overlapping treated areas. One quart will treat 16,000 sq. ft. of Southern lawn or 8,000 sq. ft. of Northern lawn. Calculate square feet by multiplying length by width. *NOTE: Do not use on Floratam variety of St. Augustine grass in Florida.*

5. To STOP spraying turn yellow [large round] water control dial to the "OFF" position. Push small, star-shaped [yellow] product control button in to close. Twist the small, star-shaped [yellow] product concentrate control button so that it is no longer aligned with the flat portion of the lock tab. Turn water off at faucet.

To relieve pressure, turn yellow [large round] water control dial to "ON" position until water stops spraying before removing nozzle from hose.

6. TO STORE unused concentrate, place in cool area away from heat, direct sunlight or open flame.

NORTHERN LAWNS (covers 8,000 sq. ft.)	SOUTHERN LAWNS (covers 16,000 sq. ft.)
Bluegrass, Fescue, Rye, Zoysia	Bahia, Bermuda, Bentgrass, Centipede, St. Augustine
NOTE: Do not use on Floratam variety of St. Augustine grass in Florida. If you are unsure as to what type of grass you have, contact your county extension agent.	

**USE TIPS**

- 1) For best results, mow before treating weeds.
- 2) Do not treat when air temperatures exceed 85°F or damage to grass may occur.

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- 3) Do not water within 6 hours after treatment. Poor weed control may result if rainfall occurs within 6 hours of application.
- 4) *For new lawns*, treat within 24 hours after seeding. *On established lawns*, wait 3 weeks after treatment before re-seeding. Once new grass has started to grow, wait until it has reached a height of 2 inches before treating.
- 5) Do not allow spray to get on vegetables or ornamental plants since injury may result. Do not spray around roots of trees and ornamentals. Clover will be damaged if sprayed.
- 6) Whether using a hose-end sprayer or pressure sprayer, avoid sprays which are too fine because they can drift and damage other plants.
- 7) If certain tough weeds are not dead within 3 weeks, repeat treatment. Broadcast application is not necessary; follow spot treatment directions.

#### USE TIPS FOR READY-SPRAY NOZZLE

- ✓ (Replaces #6) Avoid sprays which are too fine because they can drift and damage other plants.
- ✓ (Replaces #7) If certain tough weeds are not dead within 3 weeks, spot treat.
- ✓ It will take about 20 minutes to apply this bottle. Actual time will vary depending on water pressure.

#### OPTIONAL CLAIMS AND DIRECTIONS FOR REFILLING CHEMSICO SPOT WEED KILLER A POWER PUMP WITH A SINGLE USE REFILL

[Easy to mix • Just add water • Makes one gallon  
• Single-use refill • No measuring required • Power  
Sprayer Refill]

To refill the Chemsico Spot Weed Killer A Power Pump: [Mix 10 ozs.] [pour in the entire contents of this 10 oz. bottle] and dilute to a gallon with water. See the Power Pump label for complete directions.

#### STORAGE AND DISPOSAL

Store in a cool, dry area away from heat or open flame. Do not reuse container. Rinse thoroughly before discarding in trash. Securely wrap in several layers of newspaper and discard container in trash.

#### PRECAUTIONARY STATEMENTS

##### Hazards to Humans and Domestic Animals

**CAUTION:** Harmful if swallowed or absorbed through skin. Avoid breathing vapor and spray mist. Avoid contact with skin, eyes and clothing. When using this product, wear long-sleeved shirt, long pants, socks, shoes and rubber gloves. Wear goggles when applying this product. After using this product, rinse gloves before removing, remove clothing and launder separately before reuse, and promptly and thoroughly wash hands and exposed skin with soap and water. Remove saturated clothing as soon as possible and shower. Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment areas until spray has dried. The maximum number of broadcast applications per treatment site is 2 per year.

##### FIRST AID

**If Swallowed:** Call a physician or Poison Control Center immediately. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Repeat until vomit fluid is clear. **Never induce vomiting or give anything by mouth to an unconscious person.** **If on Skin:** Wash contaminated clothing and wash affected areas with plenty of soap and water. Get medical attention if irritation persists. **If In Eyes:** Flush eyes with plenty of water. Call a physician if irritation persists. **If Inhaled:** Remove victim to fresh air. Apply artificial respiration if indicated.

##### Environmental Hazards

Do not apply under conditions involving possible spray contact or drift onto food, forage, vegetables, ornamental plants or other desirable plantings that might be damaged or the crops rendered unfit for sale, use or consumption. This product is toxic to fish and aquatic invertebrates. Drift or runoff may adversely affect fish, aquatic invertebrates and nontarget plants. Do not apply directly to water. Do not contaminate water when disposing of equipment washwaters.

Most cases of groundwater contamination involving phenoxy herbicides such as 2,4-D have been associated with mixing/loading and disposal sites. Caution should be exercised when handling 2,4-D pesticides at such sites to prevent contamination of ground water supplies. Use of closed systems for mixing or

transferring this pesticide will reduce the probability of spills. Placement of the mixing/loading equipment on an impervious pad to contain spills will help prevent groundwater contamination.

**NOTICE: Buyer assumes all responsibility for safety and use not in accordance with directions.**

*Questions or comments?* Call 800-332-5553

Made in the USA for Realex, Division of United Industries Corporation, P.O. Box 15842, St. Louis, MO 63114-0842

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