



5 PM 22 239-2510 1087
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

FEB 11 1997

Katherine Buteau
The SOLARIS Group of
Monsanto Company
P.O. Box 5006
San Ramon, CA. 94583-0906

Dear Ms. Buteau:

Subject: ORTHO Crabgrass Killer Formula II
EPA Registration Number 239-2510
Your amendment application submission dated
December 19, 1996

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable provided that you:

1. Make the labeling changes listed below before you release the product for shipment bearing the amended labeling:
 - a. Under the "DIRECTIONS FOR USE" section, in the chart entitled "DILUTION TABLE," in the row entitled "Nutgrass," you must make the following changes: the "1 gal" to "2 gal" under the column titled "Add Water To Make," and "200" to "400" under the column titled "Area To Treat (sq ft)."
2. Submit one (1) copy of your final printed labeling before you release the product for shipment.

A stamped copy is enclosed for your records.

If you have any questions about this letter, please contact Marcel Howard at 703-305-6784.

Sincerely yours,

15/

Cynthia Giles-Parker
Product Manager (22)
Fungicide Herbicide Branch
Registration Division (H7505C)

Compared to 5-3-92 Label

2 of 7

ORTHO® Crabgrass Killer Formula II

Outdoor (icon) OUTDOOR USE ONLY

Treats up to 4,000 Sq Ft

6/14/95 (Water icon) Water based

Also Kills Dallisgrass and Nutgrass

4/2/96 (Measuring Cap Packaging)

NEW / NOW WITH MEASURING CAP AND POUR SPOUT INCLUDED

NOW EASIER TO MEASURE AND POUR

CHILD RESISTANT CAP

FAST & EASY MEASURING CAP

EASY POUR SPOUT

IMPROVED PACKAGE

Active Ingredient

By Wt.

Calcium acid methanearsonate8.4%

Inert Ingredients.....91.6%

Total arsenic as elemental

All water soluble-4.1%

KEEP OUT OF REACH OF CHILDREN

CAUTION

See side back panel booklet for additional precautionary statements.

NET CONTENTS 32 FL OZ (1 QT) 946 ml

ACCEPTED
with COMMENTS
In EPA Letter Dated

FEB 11 1997

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

239-2510

BEST AVAILABLE COPY

THE FOLLOWING COPY IS FOR FIX-A-FORM BOOKLET TYPE LABELS WHICH CONSUMERS CAN OPEN, READ, AND RESEAL EASILY AT RETAIL AS WELL AS AT TIME OF USE.

ORTHO Crabgrass Killer Formula II can be used to control Crabgrass, Dallisgrass and Nutgrass on all of the major ornamental turf grasses including Dichondra, Bent and Fescue grasses. Do not use on St. Augustine, Bahiagrass, Carpet and Centipede grasses. Make new dilution for each use. Deleted.

Peel open for use directions and further information

CAUTION: Causes eye irritation. SEE ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS INSIDE BOOKLET.

PULL HERE TO OPEN LABEL PRESS TO RESEAL

Medical information call 1-800-454-2333
Product information call 1-800-225-2883

Manufactured for:
The SOLARIS Group of
Monsanto Company
P.O. Box 5008
San Ramon, CA 94583-0808
Form 7-793-01 / Product 5517
EPA Reg. No. 239-2510
EPA Est. 239-1A-3, 58996-M0-1
Superscript is first letter of lot number
Made in USA

BEST AVAILABLE COPY

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 LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.

~~ORTHO Crabgrass Killer Formula II can be used to control Crabgrass, Dallisgrass and Nutgrass on all of the major ornamental turf grasses including Dichondra, Bent and Fescue grasses. Do not use on St. Augustine, Bahiagrass, Carpet and Gentipede grasses. Make new dilution for each use.~~ *(text moved above Directions for Use to improve consumer understanding of product prior to purchase.)*

~~Tbs = Tablespoon~~

For best results, apply in the morning after dew has dried on a sunny, calm day to allow maximum absorption of weed killer. Late afternoon application may be diluted or washed off leaves by dew or rainfall during the night resulting in unsatisfactory control of weeds. Do not apply when temperatures are expected to exceed 90°F or rainfall is expected within 24 hours after application.

CRABGRASS (Hairy Crabgrass or Smooth Crabgrass)

See Dilution Table for dosages. Soil should be moist before treatment.

~~APPLICATION: Use tank-type sprayer. After using sprayer with ORTHO Crabgrass Killer Formula II, clean sprayer thoroughly with water before spraying trees, flowers or vegetables. Do not apply with a hose end sprayer.~~

DILUTION TABLE

ORTHO Crabgrass Killer Formula II Product to Use	Add water to make	To cover
3 Tbs (1-1/2 oz)	1 gal	200 sq ft
6 Tbs (3 oz)	2 gal	400 sq ft
8 oz (1 cup)	5 gal	1,000 sq ft
32 oz (1 qt)	20 gal	4,000 sq ft

BEST AVAILABLE COPY

4/2/96 Measuring Cap Packaging

MEASURING CAP: The cap has 4 measuring lines indicated inside. Fill cap to appropriate line for fast, easy, accurate measuring. Close cap tightly after use - no need to rinse.

- Level 1 = 1 teaspoon (tsp)
- Level 2 = 1 Tablespoon (Tbs) = 3 tsp
- Level 3 = 1 fl oz (2 Tbs)
- Level 4 = 2 fl oz (4 Tbs)

DILUTION TABLE

Product to Use For Crabgrass	Add Water To Make	Area to Treat (sq ft)
Fill to Line 2 three times (3 Tbs)	1 gal	200
Fill to Line 3 three times (3 oz)	2 gal	400
Fill to Line 4 four times (8 oz)	5 gal	1000

Do not water for two days after treatment, then resume watering, particularly during hot, dry weather. One application may be sufficient if applied when seedlings are less than 2 inches tall. Two applications four to seven days apart are generally needed for control of medium to mature Crabgrass plants. Follow-up spot sprays may be necessary for newly germinated Crabgrass. Lawns may be reseeded when Crabgrass is dead. On newly-seeded lawns, do not commence applications until after two mowings. Bent, Fescue and Dichondra lawns are more sensitive and may be temporarily discolored. Additional wetting agents are not needed.

~~APPLICATION: Use tank type sprayer. After using sprayer with ORTHO Crabgrass Killer Formula II, clean sprayer thoroughly with water before spraying trees, flowers or vegetables. Do not apply with a hose end sprayer.~~

DILUTION TABLE

ORTHO Crabgrass Killer Formula II to Use	Add water to make	To cover
3 Tbs (1 1/2 oz)	1 gal	200 sq ft
6 Tbs (3 oz)	2 gal	400 sq ft
8 oz (1 cup)	5 gal	1,000 sq ft
32 oz (1 qt)	20 gal	4,000 sq ft

~~Information moved above to improve information flow!~~

~~SPECIAL COMBINATION SPRAY: Use ORTHO Crabgrass Killer Formula II in combination with WEED B-GON Lawn Weed Killer at recommended rates for both.~~

Use 3 Tbs of ORTHO Crabgrass Killer Formula II and 4 tsp of WEED-B-GON Lawn Weed Killer per gal water on 200 sq ft area. For larger areas, increase rate proportionately. Avoid drift to ornamentals when using this combination or injury may result. Do not use this combination on Dichondra. Observe all precautions, directions and limitations on both product labels. ~~Combination spray directions deleted. Product formulations are no longer compatible.~~

DALLISGRASS in Bermuda Lawns, Bluegrass, Dichondra and Zoysia Lawns:

Use 2 oz (4 Tbs) per gal of water and cover 200 sq ft (20' x 10'). Make 2 or 3 weekly applications at weekly intervals starting in late June. Follow cautions given on label for control of Crabgrass.

4/2/96 Measuring Cap Packaging

DILUTION TABLE

Product to Use For Dallisgrass	Add Water To Make	Area to Treat (sq ft)
Fill to Line 4 one times (2 oz)	1 gal	200

NUTGRASS in Bermuda Lawns and Zoysia Lawns:

Use 3 oz (6 Tbs) per gal of water and cover 200 sq ft (20' x 10'). Make 3 to 4 monthly applications at monthly intervals starting in June. Follow cautions given on label for control of Crabgrass.

4/2/96 Measuring Cap Packaging

DILUTION TABLE

Product to Use For Nutgrass	Add Water To Make	Area to Treat (sq ft)
Fill to Line 3 three times (3 oz)	1 gal	200

STORAGE AND DISPOSAL

STORAGE: Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Avoid contamination of feed and foodstuffs. Store in a cool, dry place, preferably in a locked storage area. Do not store diluted spray. DISPOSAL: PRODUCT - Partially filled bottle may be disposed of by securely wrapping original container in several layers of newspaper and discard in trash

7077

CONTAINER - Do not reuse empty bottle. Rinse thoroughly before discarding in trash.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION: Causes eye irritation. Avoid contact with eyes, skin or clothing. Avoid breathing spray mist. ~~Child/Pet Icon~~ Do not allow children or animals on treated area until after rainfall or when normal irrigation practice is resumed 2 days after treatment. Wear protective clothing when handling or applying this product, including long pants, long-sleeved shirt and rubber gloves and boots. Do not graze treated areas or feed livestock treated forage. ~~FIRST AID STATEMENT OF PRACTICAL TREATMENT:~~

In case of eye contact, wash eyes immediately with fresh water for at least 15 minutes. See a doctor if irritation persists. Note to Physicians: Emergency Information- call 1-800-457-2022/154-2633.

ENVIRONMENTAL HAZARDS: Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes.

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

~~Medical information call 1-800-454-2333
Product information call 1-800-225-2883~~

~~Trademark of Monsanto Company
Monsanto Company 1994~~

Manufactured for
~~Chevron Chemical Company © 1985 The SOLARIS Group of
Ortho Consumer Products Division Monsanto Company
P.O. Box 5047 P. O. Box 5008
San Ramon CA 94583-0947/0808
Form 7-793-01 / Product 5517
EPA Reg. No. 239-2510
EPA Est. 239-MO-1 EPA Est. 239-IA-3, 58996-MO-1
Superscript is first letter of lot number.~~

Made in USA

BEST AVAILABLE COPY