

PM22 400-94

file 1995



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

JAN 21 1994

WILLARD F. CUMMINGS  
UNIROYAL CHEMICAL CO. INC.  
74 AMITY ROAD  
BETHANY, CT. 06524

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 09/14/93 in Response to PR Notice 93-7  
EPA REG. NO. 400-94  
ROYAL SLO-GRO GROWTH RETARDANT

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

Send to EPA one (1) copy of the final printed labeling:

- **BEFORE** selling or distributing any product bearing the final printed labeling
- AND**
- **WITHIN** one year from date of this acceptance.



Recycled/Recyclable  
Printed with Soy/Canola Ink on paper that  
contains at least 50% recycled fiber

2075

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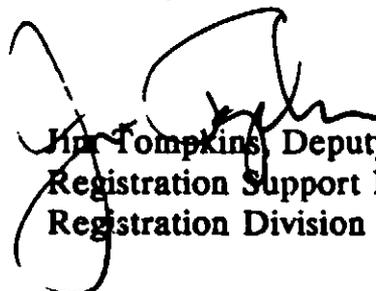
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

3045

# ROYAL SLO-GRO®

## GROWTH RETARDANT CONTROLS GROWTH OF GRASS, TREES, SHRUBS AND IVY



ACCEPTED  
with COMMENTS  
In EPA Letter Dated

JAN 21 1994

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
**400-94**

### COMPOSITION

Active Ingredient: (% by weight)	
Potassium salt of 1,2-dihydro-3,6-pyridazinedione .....	21.7%*
Inert Ingredients .....	78.3%
Total: .....	100.0%

\* One gallon contains 1.5 pounds as maleic hydrazide

UNIROYAL CHEMICAL COMPANY, INC., Middlebury, CT 06749  
EPA REG. NO. 400-94  
EPA EST. NO.

003WPS

### NET CONTENTS

## KEEP OUT OF REACH OF CHILDREN CAUTION

### STATEMENT OF PRACTICAL TREATMENT

**IF IN EYES:** Flush eyes with plenty of water. Call a physician if irritation persists.  
**IF ON SKIN:** Wash with plenty of soap and water. Get medical attention.

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes eye irritation. Avoid contact with skin, eyes or clothing.

#### PERSONAL PROTECTIVE EQUIPMENT

**Applicators and Other Handlers Must Wear:** Long-sleeved shirt and long pants; waterproof gloves; shoes plus socks. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

#### USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

#### ENVIRONMENTAL HAZARDS

Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Do not contaminate water when disposing of equipment washwaters.

#### DIRECTIONS FOR USE

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

Do not apply this product through any type of irrigation system.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

#### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (40 CFR 170.240) which is part of this label. The Worker Protection Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, testing, and certification; for decontamination; and emergency assistance procedures. For more specific instructions and exceptions pertaining to the requirements on this label about personal protective equipment (PPE) and restricted entry interval, the requirements in this box only apply to users of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls; waterproof gloves; shoes plus socks.

**BEST AVAILABLE COPY**

ROYAL SLO-GRO® goes into solution readily. After initial mixing, the spray solution requires no additional agitation.

#### MIXING INSTRUCTIONS

1. Be sure sprayer is clean and not contaminated with any material.
2. Fill tank  $\frac{3}{4}$  full with clean water, and start agitation.
3. Pour ROYAL SLO-GRO into tank. Avoid dumping all contents at once. To assure that container content is emptied, triple rinse into spray tank.
4. Mild agitation is recommended.
5. Add compatible tank mix insecticide, fungicide or 2,4-D herbicide, if needed. (ROYAL SLO-GRO should be added before an insecticide, fungicide or 2,4-D herbicide).
6. Complete filling tank.

#### APPLICATION NOTES

1. Follow dosage recommendations carefully and spray field uniformly.
2. Apply only to green vigorous plants.
3. Even though ROYAL SLO-GRO is non-volatile, no drift should be permitted onto nearby crops.
4. All turf areas treated should contain well-established perennial grasses at least three years old.
5. Do not add any extra wetting agents or commercial spray adjuvants to ROYAL SLO-GRO spray solutions.
6. Time treatment to allow a minimum rainfree period of at least 12 hours after application to ensure complete absorption of the chemical.
7. Do not apply this product through any type of irrigation system.

**DO NOT PASTURE LIVESTOCK IN, OR CUT HAY FROM, TREATED AREAS.**

#### TURF

#### TO CONTROL THE GROWTH OF PERENNIAL GRASSES ON COMMERCIAL TURF LOCATIONS

##### BENEFITS

ROYAL SLO-GRO is used mostly as a substitute for mechanical mowing on various commercial turf locations such as hard-to-mow areas along highways, airport property, military installations, federal, state and municipal properties, industrial areas, golf course roughs and similar areas. It can be used for grass inhibition on all turf areas except on fine lawns (where esthetic appearance is more important than reducing a maintenance chore) and on those areas under heavy foot traffic (such as golf course fairways and greens, except for *Poa annua* control).

Perennial grasses effectively retarded by ROYAL SLO-GRO are: bluegrasses, fescues, bromegrass, orchard grass, quackgrass, perennial rye, ryegrass and bahiagrass (not for use on bahiagrass in California). Bentgrass can be inhibited, but often shows discoloration effects. ROYAL SLO-GRO will injure St. Augustinegrass and should not be used on this species.

The growth regulant action of ROYAL SLO-GRO reduces or prevents seed stalk and seed head formation and slows leaf growth. If the application is timed properly, no significant growth will occur for several weeks after the treatment. As the effect gradually "wears off", the turf may grow to 6-12 inches in height by the end of the growing season.

#### DIRECTIONS FOR USE

##### APPLICATION TIMING:

One application per year either Spring or Autumn should be used: At either time, the area to be treated must be green and actively growing. Turf to be treated must be free of leaf cover or other debris that would prevent direct contact of the spray with the grass.

##### SPRING

Apply spring treatments when grass is 2-3 inches tall for the best growth control. This timing usually occurs just before and during early dandelion or forsythia bloom. If this timing period is missed and the grass reaches a height of 6 inches or more, spray and then mow 5 to 7 days later. UNDER NO CONDITIONS SHOULD GRASS BE CUT SHORTER THAN 3 TO 4 INCHES. The grass growth rate is greatly reduced by a ROYAL SLO-GRO treatment. A "short cut" may produce a scalped or light brown

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effect, especially if dry weather follows. To extend the growth control period of bahiagrass, a repeat application may be necessary in the late spring or approximately one month after initial application.

##### AUTUMN

ROYAL SLO-GRO may also be applied late in the growing season to reduce grass growth the following spring. Treatment should be made while grass is still green but before it becomes dormant (usually during October). An additional benefit of Autumn treatment is control of wild onion, garlic and biennial type weeds such as dandelion and plantain. Since grass growth is inhibited the following spring, the area will "green up" about two weeks later than untreated turf.

##### RATE OF APPLICATION:

Apply 3 to 4 gallons of ROYAL SLO-GRO in 30-50 gallons of water per acre. Use the higher rate for fall applications and when a longer period of retardation is desired. On grass where broadleaf growth is a problem, ROYAL SLO-GRO may be used in a tank-mix combination with low-volatile ester or amine formulations of 2,4-D. One pound of 2,4-D per acre should be used with ROYAL SLO-GRO in most spring applications. Carefully follow dosage and precautionary information of the 2,4-D product label. If weeds have not emerged at time of ROYAL SLO-GRO application, a separate, later spray of 2,4-D is recommended to control these weeds.

##### APPLICATION EQUIPMENT:

Applications may be made with standard booms using flat fan type nozzle tips in the 80° series, i.e. 8003, 8004. These tips should be placed on 10 inch centers and turned 45° out from the boom line. This spacing allows 50% overlap when the boom is 18-20 inches above the grass and a uniform spray pattern. Applications may also be made with off center nozzle systems. Accurate calibration is required using low speed speedometers. Spraying should not be done on excessively windy days.

##### SPECIAL GRASS AREAS

**GOLF COURSE FAIRWAYS:** ROYAL SLO-GRO may be used to reduce *Poa annua* (annual bluegrass) in golf course fairways. Recommended procedure is to first mow area twice in normal sequence (usually 5 to 6 days apart). When third mowing is needed and before first *Poa annua* seed heads appear - spray 2 qts. of ROYAL SLO-GRO in 30-40 gallons of water per acre. Do not use over 40 gallons per acre as effectiveness may be reduced. The effect of this treatment should be evident in 8-10 days showing up as a reduction in *Poa annua* reseeding with little retardation of desirable grass growth.

**OVERSEEDING RYEGRASS IN BERMUDAGRASS:** Excessive growth of Bermudagrass on golf greens and fairways is often a problem in the fall after verticutting, fertilization, overseeding and top dressing. Apply ROYAL SLO-GRO in late September or early October to inhibit the growth of Bermudagrass and enable ryegrass or other grasses to produce a good stand. Use 1½ gallons of ROYAL SLO-GRO in 50 gallons of water per acre. ROYAL SLO-GRO should be applied with a calibrated boom. The Bermudagrass must be in good condition. Overseed no sooner than 48 hours after spraying.

**HOME LAWNS:** ROYAL SLO-GRO IS NOT RECOMMENDED AS AN OVERALL TREATMENT FOR PRIME LAWNS OR OTHER FINE TURF AREAS. ROYAL SLO-GRO can be used as a band or edge treatment of lawns where it is difficult to trim mechanically. Examples are: along walls, around trees, rocks, etc.

**SPECIAL NOTE:** Because of the difficulties in applying ROYAL SLO-GRO at a uniform rate and dosage to small areas, some color modification may occur. Any slightly abnormal color of the treated area is a temporary effect. At times, the treated grass may be a greener color than untreated turf. Do not apply ROYAL SLO-GRO during the summer or at other times when permanent grasses are dormant (example: under drought conditions).

##### SHRUBS AND DECIDUOUS TREES

##### TO RETARD THE GROWTH OF CERTAIN ORNAMENTALS

##### BENEFITS

ROYAL SLO-GRO may be used to suppress excessive vegetative growth and reduce the need to mechanically prune or shear.

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**DIRECTIONS FOR USE**

**APPLICATION TIMING:**

The best procedure is to apply to plants that have been previously pruned into the desired shape. Some regrowth should be allowed before treatment to hide fresh cut ends of limbs or stems to prevent a barren appearance of the treated plant. ROYAL SLO-GRO should only be used on vigorous, healthy plants.

The following trees may be treated with ROYAL SLO-GRO:

Acacia, Black	Dogwood	Mulberry
Alder	Elderberry	Oak
Ash	Elm	Pine, Monterey
Bay (California Laurel)	Eucalyptus	Plane (Sycamore)
Birch	Fir, Douglas	Poplar
Box-Elder	Linden	Redbud, Western
Brevillea Silk Oak	Liquid Amber (Sweet Gum)	Redwood
Buckeye, California	Madrone	Walnut
Catalpa	Manzanita	Wax-Myrtle, California
Cypress, Monterey	Maple	Willow, Black

ROYAL SLO-GRO may effectively retard excessive vegetative growth on the following shrubs:

Cissus	Myrtus	Pyracantha
Eugenia	Pittosporum	Viburnum
Forsythia	Privet	Xylocoma
Honeysuckle		

ROYAL SLO-GRO may be used to inhibit the growth of Hahn and Algerian Ivy. A special use for ROYAL SLO-GRO is for weed control in Ice Plant. It may be used for both emerged broadleaf weed and annual grass control without injury to the herbaceous growth.

All areas to be inhibited should be sprayed to drip-point covering all surfaces of leaves and stems. If only one section of a tree is to be controlled, spray just that section and normal growth will continue in the unsprayed sections. Do not spray where wind velocity exceeds 15 mph. Drift should not go on nearby crops.

Best results are obtained when spray is applied to green, vigorous, new growth. On trees, new leaves should be fully expanded when treatment is made. ROYAL SLO-GRO should be used once a year - in spring, after new growth has started, or in early summer - usually after pruning when new regrowth is about 2 to 4 inches in length.

**RATE OF APPLICATION:**

ROYAL SLO-GRO is recommended for all shrub and tree uses at a rate of 1½ to 2 gallons per 100 gallons of water.

Use the higher rate on shrubs and trees that are vigorous.

**FALLOW LAND  
TO CONTROL SILVERLEAF NIGHTSHADE AND RED RICE  
(DO NOT USE IN CALIFORNIA OR ARIZONA)  
SILVERLEAF NIGHTSHADE CONTROL**

Silverleaf Nightshade is a troublesome perennial weed that over-winters and may compete with subsequent crops and cultivations. ROYAL SLO-GRO may be applied to Silverleaf Nightshade in the autumn after the season's crop is harvested. The effect on the weed obtained is no subsequent growth and eventual kill the following spring.

**DIRECTIONS FOR USE**

**RATE OF APPLICATION:**

Apply 6 gallons of ROYAL SLO-GRO in 10 to 20 gallons of water per acre.

**APPLICATION TIMING:**

Apply to Silverleaf Nightshade during periods of active growth but after crop harvest. ROYAL SLO-GRO may be applied to Silverleaf Nightshade anytime during bloom.

**RED RICE CONTROL**

Red Rice is a troublesome annual weed in the management of Fallow Land, since it competes with subsequent crop production, particularly rice. ROYAL SLO-GRO has been shown to substantially reduce Red Rice seed production, thus lowering the potential infestation in subsequent crops.

**DIRECTIONS FOR USE**

**RATE OF APPLICATION:**

For suppression of Red Rice seed and seedheads, apply 1 gallon of

ROYAL SLO-GRO in 10 to 20 gallons of water per acre.

**APPLICATION TIMING:**

Apply to Red Rice after panicle differentiation, up until the boot stage.

**NOTE: DO NOT GRAZE TREATED AREAS OR FEED TREATED FORAGE TO LIVESTOCK. DO NOT PLANT FOOD OR FEED CROPS WITHIN 6 MONTHS AFTER APPLICATION.**

**STORAGE AND DISPOSAL**

**Do not contaminate water, food or feed by storage or disposal.**

**STORAGE:** The active ingredient in ROYAL SLO-GRO will separate from the surfactant at temperatures above 134°F. If containers are exposed to excessive heating, the contents can be remixed by lowering the temperature of the entire formulation below 134°F. and applying agitation. **ALWAYS SHAKE OR STIR WELL BEFORE USE.**  
**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes can not be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**EQUIPMENT CLEANING:** ROYAL SLO-GRO is not corrosive to spray equipment. Following applications, all spray equipment should be thoroughly rinsed with water.

**CONTAINER DISPOSAL:**

**Plastic Containers:** 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

**IMPORTANT NOTICE—**Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product, contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

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