

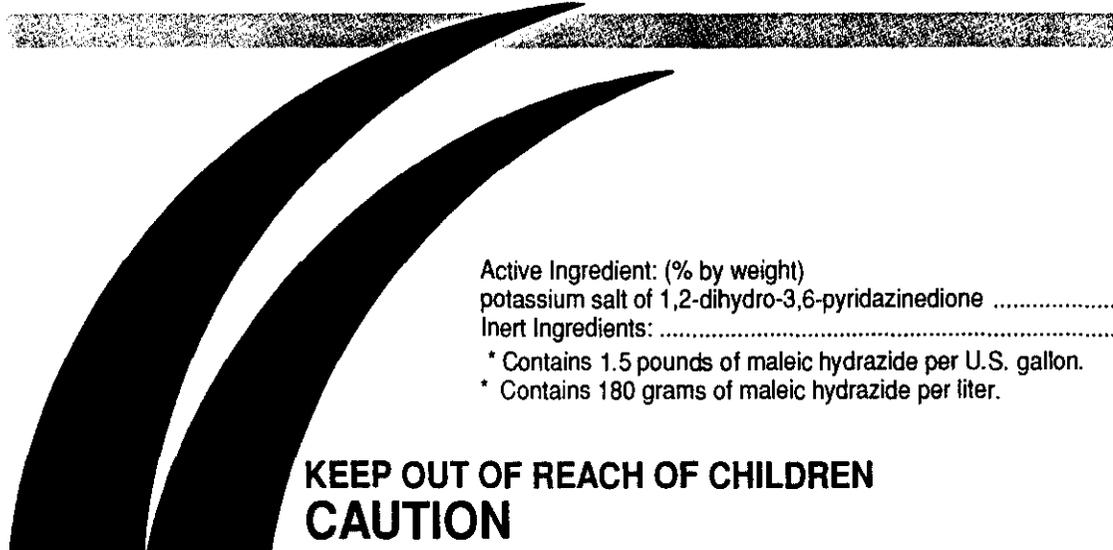
400-94

11/05/2001

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Royal Slo-Gro®

GROWTH REGULATOR
CONTROLS GROWTH OF GRASS, TREES, SHRUBS AND IVY



Active Ingredient: (% by weight)
potassium salt of 1,2-dihydro-3,6-pyridazinedione 21.7%*
Inert Ingredients: 78.3%
* Contains 1.5 pounds of maleic hydrazide per U.S. gallon.
* Contains 180 grams of maleic hydrazide per liter.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

Net contents:

| FIRST AID | |
|---|--|
| IF IN EYES: | <ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. • Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice. |
| EMERGENCY ASSISTANCE: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. | |
| UNIROYAL CHEMICAL EMERGENCY PHONE | 203-723-3670 |
| SAFETY DATA AND INFORMATION | 203-573-3303 |
| TRANSPORTATION EMERGENCY (CHEMTREC) | 800-424-9300 |

ACCEPTED
NOV 5 2001
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 400-94

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Applicators and Other Handlers Must Wear: long-sleeved shirt and long pants; chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride; 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, enclosed cabs, or aircraft 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 to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by disposal of equipment washwaters.

**UNIROYAL
CHEMICAL**

Uniroyal Chemical
Company, Inc.
Middlebury, CT 06749
EPA REG. NO. 400-94
EPA EST. NO.
006

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all label directions carefully before use.

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 Part 170. This 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, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses 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; chemical-resistant gloves made of any waterproof material; shoes plus socks

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.

DIRECTIONS FOR USE: TURF

BENEFITS: TO CONTROL THE GROWTH OF PERENNIAL GRASSES ON COMMERCIAL TURF LOCATIONS

GENERAL INFORMATION

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 to 12 inches in height by the end of the growing season. See APPLICATION NOTES for additional important information.

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

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on 10 inch centers and turned 45° out from the boom line. This spacing allows 50% overlap when the boom is 18 to 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.

TIMING OF APPLICATION

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: For the best control of growth, apply spring treatments when grass is 2 to 3 inches tall. 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 effect, especially if dry weather follows.

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 to 50 gallons of water per acre. Use the higher rate for autumn 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 active ingredient 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.

USES ON SPECIAL TURF GRASS AREAS

- A. 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** - apply 2 qts. of ROYAL SLO-GRO in 30 to 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 to 10 days, showing up as a reduction in *Poa annua* reseeding with little retardation of desirable grass growth.
- B. Overseeding Ryegrass in Bermudagrass:** Excessive growth of bermudagrass on golf greens and fairways is often a problem in the autumn 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 1.5 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.
- C. Home Lawns:** ROYAL SLO-GRO IS NOT RECOMMENDED AS AN OVERALL TREATMENT FOR PRIME LAWNS OR OTHER FINE TURF AREAS. However, ROYAL SLO-GRO may be used as a band or edge treatment of lawn areas where it is difficult to trim mechanically. Examples: 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).

DIRECTIONS FOR USE: SHRUBS AND DECIDUOUS TREES

BENEFITS: TO RETARD THE GROWTH OF CERTAIN ORNAMENTALS

GENERAL INFORMATION

ROYAL SLO-GRO may be used to suppress excessive vegetative growth and reduce the need to mechanically prune or shear certain ornamental species. See APPLICATION NOTES for additional important information.

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 | Xylosoma |
| Honeysuckle | | |

TIMING OF APPLICATION

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.

Apply this product 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.

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. See specific application volumes below. 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.

RATE OF APPLICATION

ROYAL SLO-GRO is recommended at a rate of 1.5 to 2 gallons per 100 gallons of water for all tree, shrub, ivy and ice plant uses. Use the higher rate on plants that are more vigorous.

The rates of ROYAL SLO-GRO are based on the use of a standard 200 gallons per acre of diluted spray for mature trees, 100 gallons per acre for full-size shrubs, and 50 gallons per acre for ivy and ice plant.

DIRECTIONS FOR USE: FALLOW LAND

(DO NOT USE IN CALIFORNIA OR ARIZONA)

A. TO CONTROL SILVERLEAF NIGHTSHADE

GENERAL INFORMATION

Silverleaf Nightshade is a troublesome perennial weed that overwinters 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. See APPLICATION NOTES for additional important information.

TIMING OF APPLICATION

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.

RATE OF APPLICATION

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

B. TO CONTROL RED RICE

GENERAL INFORMATION

Red Rice is a troublesome annual weed in the management of Fallow Land, because 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.

TIMING OF APPLICATION

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

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.

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

APPLICATION NOTES: TURF, ORNAMENTALS AND FALLOWLAND

1. Always follow dosage recommendations carefully and spray area uniformly. Uniform and complete coverage is essential for satisfactory results.
2. Use only one application of ROYAL SLO-GRO per year.
3. All turf areas to be treated should contain well-established perennial grasses at least three years old.
4. Apply only to green vigorous plants.
5. To obtain desired results, plants should not be stressed from either too little or excessive water before or after application.
6. Do not apply this product through any type of irrigation system.
7. Time treatment to be at least 12 hours before rain or overhead irrigation. Rain or overhead irrigation occurring within 12 hours after application may result in incomplete absorption of this product and may reduce effectiveness.
8. Even though ROYAL SLO-GRO is non-volatile, no drift should be permitted onto nearby crops.
9. SURFACE WATER ADVISORY: Under some conditions, maleic hydrazide may have a significant potential for runoff into surface water (primarily via dissolution in runoff water), for several days post-application. Conditions favoring runoff include poorly draining soils or wet soils with readily visible slopes, frequently flooded areas, areas where an intense or sustained rainfall is forecast to occur within 48 hours, areas overlying extremely shallow groundwater, and areas overlying tile drainage systems that flow to surface water.
10. SPRAY ADJUVANTS: do not add additional wetting agents or commercial spray adjuvants to ROYAL SLO-GRO spray solutions.
11. DO NOT PASTURE LIVESTOCK IN, OR CUT HAY FROM, TREATED AREAS.

ALWAYS SHAKE OR STIR WELL BEFORE USE.

STORAGE AND DISPOSAL

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

STORAGE: Store in the original container only. After partial use, replace lid and close tightly. Store in a secure place that is temperate and dry. The active ingredient in this product 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: This product is not corrosive to spray equipment. Following applications, all spray equipment should be thoroughly rinsed with water. Do not contaminate water by disposal of equipment washwaters.

CONTAINER DISPOSAL:

Plastic Containers: Triple rinse (or equivalent). Pressure rinse is preferred. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by 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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