

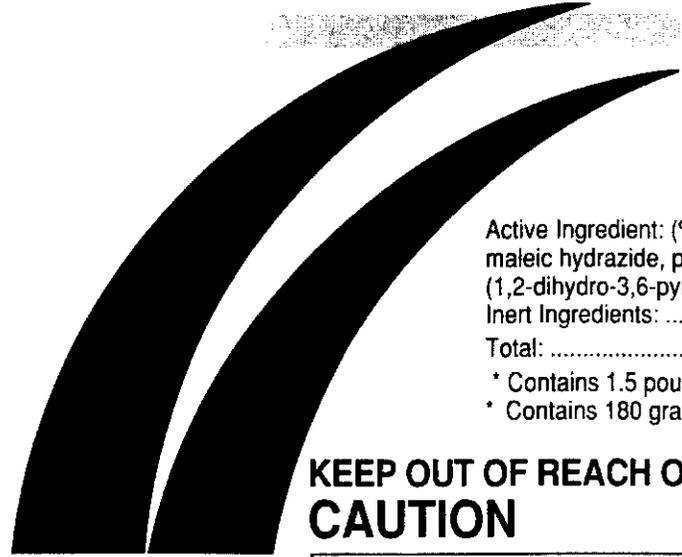
400-94

8/7/2003

1/4

# Royal Slo-Gro®

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



Active Ingredient: (% by weight)

maleic hydrazide, potassium salt (CAS No. 28382-15-2)	
(1,2-dihydro-3,6-pyridazinedione, potassium salt)	21.7%*
Inert Ingredients:	78.3%
Total:	100.0%

\* Contains 1.5 pounds of maleic hydrazide per gallon.  
\* Contains 180 grams of maleic hydrazide per liter.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

Net contents:

FIRST AID	
<b>IF IN EYES</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>• Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>EMERGENCY ASSISTANCE:</b> Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
<b>CROMPTON EMERGENCY PHONE</b>	<b>800-292-5898</b>
<b>SAFETY DATA AND INFORMATION</b>	<b>203-573-3303</b>
<b>TRANSPORTATION EMERGENCY (CHEMTREC)</b>	<b>800-424-9300</b>

**ACCEPTED**

AUG 7 2003

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 (PPE)**

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.

**Crompton**  
Uniroyal Chemical

Crompton Manufacturing Company, Inc.  
Middlebury, CT 06749

EPA REG. NO. 400-94  
EPA EST. NO. 007CM

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### 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.

#### MIXING INSTRUCTIONS

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

1. Be sure sprayer is clean and not contaminated with any material.
2. Fill tank ¾ 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 can substitute for mechanical mowing in hard-to-mow 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 include: bluegrasses, fescues, bromegrass, orchard grass, quackgrass, perennial rye, ryegrass and bahiagrass (not for use on bahiagrass in California). Bentgrass can be inhibited, but may be discolored. ROYAL SLO-GRO will injure St. Augustinegrass and should not be used on that species.

The growth regulating 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), placed 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. Because accurate calibration is required, use of low speed speedometers is recommended. Spraying should not be done on excessively windy days.

#### TIMING OF APPLICATION

**USE ONLY ONE APPLICATION PER YEAR, EITHER SPRING OR AUTUMN:** 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 prevents direct contact of the spray with the grass blades.

**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.** Because 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 instead be applied late in the growing season to reduce grass growth the following spring. Treatment should be made while grass is still green and before it becomes dormant (usually during October). An additional benefit of autumn treatment is control of wild onion, garlic and biennial weeds such as dandelion and plantain. Because 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 tank-mixed 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. The more restrictive of label limitations and precautions must be followed. 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 can 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 bermudagrass growth on golf greens and fairways is frequently 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 application of this product.

**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 or rocks, etc.

**SPECIAL NOTE:** Because it is difficult to apply 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

temporary. At times, the treated grass may be greener 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 can be used to suppress excessive vegetative growth and reduce the need to mechanically prune or shear many ornamental shrubs, trees and ground cover 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		

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.

**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, either in spring, after new growth has started; or in early summer - usually after pruning when new regrowth is about 2 to 4 inches long.

The best procedure is to 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 applied to vigorous, healthy plants.

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**

(NOT APPROVED FOR USE IN CALIFORNIA OR ARIZONA)

**A. TO CONTROL SILVERLEAF NIGHTSHADE**

**GENERAL INFORMATION**

Silverleaf Nightshade (*Solanum elaeagnifolium*) 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 has been harvested. Treatment of the weed results in growth inhibition and eventual death 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 substantially reduces Red Rice seed production, thus lowering the potential infestation of 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. Apply this product 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 reduced effectiveness.
8. 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.
9. Although ROYAL SLO-GRO is non-volatile, no drift should be permitted onto nearby crops.
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.

**PESTICIDE STORAGE:** Store in the original container only. After partial use, replace lid and close tightly. Store in a secure place that is temperate, dry and out of direct sunlight. The active ingredient in this product will separate from the surfactant at temperatures above 134°F. If container has been exposed to high temperatures, 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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