

400-94

10/19/1983

ROYAL SLO-GRO

GROWTH RETARDANT — WITH SORBATRAN

Controls Growth of Grass, Trees, Shrubs and Ivy

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS

CAUTION

Avoid contact with skin, eyes or clothing. In case of contact immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

ENVIRONMENTAL HAZARDS

Keep out of lakes, ponds or streams. Do not contaminate water by cleaning of equipment or disposal of wastes.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and 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 cannot 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.

CONTAINER DISPOSAL: 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.

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

UNIROYAL

ACCEPTED

OCT 19 1983

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

COMPOSITION

Active Ingredients: (% 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)

U.S. Patent No. 3,503,729

KEEP OUT OF REACH OF CHILDREN

CAUTION!

FOR PRECAUTIONARY STATEMENTS
SEE LEFT PANEL

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UNIROYAL CHEMICAL — Division of UNIROYAL, Inc.
Naugatuck, Connecticut 06770
EPA REG. NO. 400-94
EPA EST. NO.

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NET CONTENTS:

GENERAL INFORMATION

ROYAL SLO-GRO growth retardant is an improved version of SLO-GRO. The advantage of the new product is a formulation improvement which allows a lower rate of active ingredient to achieve results equivalent to standard SLO-GRO used at a higher rate. ROYAL SLO-GRO is a water-based formulation which goes into solution readily. After initial mixing or stirring with dilution water, the spray solution requires no additional agitation.

The growth regulant action is systemic in nature. The chemical must first be absorbed into the growing plant. It then moves to the active growing site where it stops new growth thereby reducing the need for frequent mowing, pruning or clipping.

The following precautions should be observed to obtain the best results with ROYAL SLO-GRO:

1. Apply only to **green vigorous** plants.
2. Do not use if vegetation is wilted or during periods of extended drought as absorption will be poor and results will be unsatisfactory.
3. Time treatment to allow a minimum rainfree period of **at least 12 hours** after application to insure complete absorption of the chemical.
4. Spraying on relatively calm days (wind velocity under 15 mph) with equipment that will apply the product uniformly is essential for best results.
5. All turf areas treated should contain well established perennial grasses at least three years old.
6. Do not add any extra wetting agents or commercial spray adjuvants to ROYAL SLO-GRO spray solutions.

DIRECTIONS FOR USE ON GRASS

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, airports property, industrial areas and golf course roughs. It can be used for grass inhibition on all turf areas except those under heavy foot traffic (such as golf course fairways and greens, except for *Poa annua* control) and fine lawns where esthetic appearance is more important than reducing a maintenance chore.

On grass areas where broad leaf weed growth is a problem, ROYAL SLO-GRO may be used in 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. Follow dosage and precautionary information of the 2,4-D 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.

SPECIES RESPONSE: Perennial grasses effectively retarded by ROYAL SLO-GRO are: bluegrasses, fescues, brome grass, orchard grass, quackgrass and perennial rye. Bent grass can be inhibited, but often shows discoloration effects. ROYAL SLO-GRO will injure St. Augustine grass and **should not be used on this species.**

MODE OF ACTION: The growth regulant action prevents seed head formation and slows down 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. One or more mechanical mowings may be required if grass height must be kept under 6 inches.

TIMING: One application per year either Spring or Fall 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 which would prevent direct contact of the spray with the grass.

SPRING TREATMENTS

This is the best time to use a ROYAL SLO-GRO application when dandelion and forsythia are in full bloom. Application (usually in April when the new grass growth is green and 2-3 inches high) will curtail the normal spring flush of growth and eliminate the need to mow for at least several weeks. If the time or weather does not permit early application and grass is 6 inches or more in height, the product should be applied and the area mowed about 7 days later. This procedure helps to prevent "stretching" of the seed head in the treated area. Under no conditions, should the turf be mowed to a height under 3-4 inches to avoid a "scalped" appearance of the retarded grass.

DOSAGE: Use 1½ to 2 gallons of ROYAL SLO-GRO in 30-50 gallons of water per acre. Application may be made with standard booms or off-center nozzles systems. Calibrated nozzles and accurate low speed speedometers should be used to insure proper dosage. Spraying should not be done on excessively windy days. All reasonable care should be taken to apply the product uniformly for best results.

AUTUMN TREATMENTS

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 Fall 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.

DOSAGE: Use 3 gallons of ROYAL SLO-GRO in 30-50 gallons of water. Application procedures are similar to those used for spring treatment. Do not spray if there is a cover of fallen leaves or non-uniform results will be obtained.

314
SPECIAL NOTE: Do not apply ROYAL SLO-GRO during the summer or other times when permanent grasses are dormant under drought conditions.

SPECIAL GRASS AREAS

GOLF COURSE FAIRWAYS: ROYAL SLO-GRO may be used to reduce *Poa annua* (annual blue grass) in golf course fairways. Recommended procedure is to first mow area twice in normal sequence (usually 5 to 6 days apart). When the third mowing is needed and before first *Poa annua* seed heads appear - spray 2 quarts 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 Bermuda Grass: Excessive growth of Bermuda grass 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 Bermuda grass and enable rye 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 Bermuda grass 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.

Small area applications are made in the spring with conventional compressed air tank sprayers or hose-end attachments. Dosage rate is 5 tablespoons of ROYAL SLO-GRO per gallon of water to treat a 400 sq. ft. area.

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.

DIRECTIONS FOR USE ON TREES, SHRUBS AND IVY

ROYAL SLO-GRO is used to suppress excessive vegetative growth and reduce the need to mechanically prune or shear. 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 can be treated with ROYAL SLO-GRO:

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

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

Cissus	Pittosporum
Eugenia	Privet
Forsythia	Pyracantha
Honeysuckle	Viburnum
Myrtus	Xylosoma

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.

DOSAGE: ROYAL SLO-GRO is recommended for all uses at a rate of 1½ to 2 gallons per 100 gallons of water. This rate is equivalent to 4 to 5 tablespoons (2-2½ fl. ozs.) per gallon for small sprayers or hose-end attachments.

PROCEDURES: 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.

Best results are obtained when spray is applied to green, vigorous, new growth. On trees, new leaves should be

4/4
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.

USE PRECAUTIONS

1. ROYAL SLO-GRO should be used only for grass, tree and shrub inhibition. Do not use on tobacco, potato, onions, citrus or agricultural crops.
2. Do not pasture livestock in, or cut hay from, treated areas.
3. ROYAL SLO-GRO can be used along highways, airports, military installations, roughs of golf courses (except as indicated under special grass areas) and similar areas. Do not use on home lawns except along edges.
4. At recommended application rates ROYAL SLO-GRO does not normally affect the color of grass. Under certain conditions of optimum absorption, color modification for a period of several weeks may be encountered. At times treated grass may be a greener color than untreated grass. It may also remain greener for a longer period under drought conditions. No adverse effects on color have been observed from Fall application. Some delay in spring "green up" is normal.
5. Do not spray on trees when wind velocity exceeds 15 mph. Even though ROYAL SLO-GRO is non-volatile, no drift should be permitted onto nearby crops.
6. Observe all cautions and limitations on labeling of all products used in mixtures.

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.

NOTE: ALWAYS STIR OF SHAKE WELL BEFORE USING.