

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 CHEMICAL

ACCEPTED

JUN 15 1988

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as 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

UNIROYAL CHEMICAL COMPANY, INC.

Middlebury, CT 06749

EPA REG. NO. 400-94

EPA EST. NO.

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9-22-86A

Lot No.

NET CONTENTS: NOTE: ALWAYS STIR OR SHAKE WELL BEFORE USING.

ROYAL SLO-GRO into good mixing solution ready. After initial mixing, the spray solution requires no further agitation. Do not apply this product through any type of irrigation system.

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.
4. Mild agitation is recommended.
5. Add compatible tank mix insecticide or fungicide if needed. (ROYAL SLO-GRO should be added before an insecticide or fungicide).
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. Do not handle treated plants until sprays have dried.
7. Time treatment to allow a minimum rainfree period of at least 12 hours after application to insure complete absorption of the chemical.

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, brome grass, orchard grass, quackgrass and perennial rye. Bentgrass can be inhibited, but often shows discoloration effects. ROYAL SLO-GRO will injure St. Augustine grass 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.

APPLICATION TIMING

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 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 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.

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.

RATE OF APPLICATION

Apply 3 to 4 gallons of ROYAL SLO-GRO in 30-50 gallons of water. 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. 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.

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 blue grass) 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 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 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 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.

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 other than times permanent grasses are dormant under drought conditions.

SHRUBS AND DECIDUOUS TREES TO RETARD THE GROWTH OF CERTAIN ORNAMENTALS

BENEFITS

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

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 can be treated with ROYAL SLO-GRO:

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

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

Cissus	Honeysuckle	Privet	Viburnum
Eugenia	Myrtus	Pyracantha	Xylocopa
Forsythia	Pittosporum		

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 uses at a rate of 1½ - 2 gallons per 100 gallons of water. Use the higher rate on shrubs and trees that are vigorous.

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

BENEFITS

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 fall after the season's crop is harvested. The effect on the weed obtained is no subsequent growth and eventual kill the following spring.

RATE OF APPLICATION:

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

APPLICATION TIMING:

Apply to Silverleaf nightshade during periods of active growth but after crop harvest. It may be applied to Silverleaf nightshade anytime during bloom.

NOTE: Do not graze treated areas or feed treated forage to livestock. Do not plant food or feed crops within 6 months of after application.

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.

