

PM 23 48234-15

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US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460 NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)	EPA REGISTRATION NO. 48234-15	DATE OF ISSUANCE MAY 22 1996
	TERM OF ISSUANCE Conditional	
	NAME OF PESTICIDE PRODUCT RegalStar [®] II	

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Regal Chemical Company
 P.O. Box 900
 Alpharetta, GA 30239

NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.

A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.

Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Add the phrase "EPA Registration No. 4824-15" to the label before you release the product for shipment.
2. Revise the chemical expression in the "Ingredient Statement" to read: 2-tert-butyl-4-(2,4-dichloro-5-isopropoxyphenyl)-delta²-1,3,4-oxadiazoline-5-one. (Note, you omitted the "2" on the word "delta").
3. Correct the latin names of the plants listed such that the genus name is capitalizd and the species is in the lower case, throughout this label.

Continued on page 2 of this Notice.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sectin 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

Joanne I. Miller
 Product Manager (23)
 Fungicide-Herbicide Branch
 Registration Division (7505C)

Enclosure

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL <i>Joanne I. Miller</i>	DATE MAY 22 1996
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Second Page of Notice of Pesticide Registration:

RegalStar II, EPA Registration No. 46234-15

4. Revise the "Statement of Practical Treatment" by deleting the statements: "Cause eye irritation. Avoid contact with eyes, skin and clothing"; and by adding the statement: If swallowed: Call a physician or Poison Control Center immediately. Induce vomiting by giving victim 1 or 2 glasses of water and touching back of throat with finger. Do not induce vomiting or give anything to an unconscious or convulsing person."
5. Revise the front panel by giving the "Precautionary Statements" followed by the "Statement of Practical Treatment".
6. Limit the "Woody Ornamental Shrubs, Vines and Trees" section by stating "RegalStar II has been found to be effective for weed control in nurseries and plantings of the those woody ornamental shrubs, vines and trees listed on this label".
7. Under "Woody Ornamental Shrubs, Vines and Trees" section delete the broad claim: "RegalStar II has demonstrated effective utility on many ornamental plants as a pre-emergent herbicide". Add the statement: "Susceptible weeds are listed on this label under the "General Information" section, as a last statement in the section.
8. Under the "General Information" section add to the first statement of the paragraph that begins: For maximum effectiveness, the phrase: "within 14 days of application".
9. Revise the "Warranty and Limitation of Damages" statements by deleting the word "crop" and substituting the word "plant". Also use the lower case for the words: "seller, fitness and merchantability.
10. Submit one (1) copy of the final printed labeling before you release the product for shipment.
11. Submit and/or cite all data required for registration/ reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data for oxadiazon; and submit acceptable responses required for registration of your product under FIFRA section 4.



RegalStar[®] II

For sale for use and storage by commercial turf and landscape personnel only.

RegalStar II is a selective pre-emergence herbicide for control of crabgrass, goosegrass, and crowfoot on turf and golf courses(excluding putting greens) of established bermudagrass, zoysiagrass, St. Augustine grass, ryegrass, centipedegrass, bentgrass, bluegrass, tall fescue grasses, and a wide variety of woody ornamental shrubs, trees, and vines. RegalStar II also controls many annual broadleaf weeds, including spotted spurge, knotweed, chickweed, and clovers.

GUARANTEED FERTILIZER ANALYSIS

38% Total Nitrogen (N)
27% Water-Insoluble Nitrogen Derived from Ureaform
11% Water-soluble Nitrogen Derived from Ureaform

ACTIVE INGREDIENT:

Oxadiazon: 2-tert-butyl-4-(2,4-dichloro-5-isopropoxyphenyl)-delta-1,3,4-oxadiazolin-5-one.....1.0%
Prodiamine: [N³, N³-Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-m-phenylenediamine].....0.2%

INERT INGREDIENTS:98.8%
TOTAL 100.0%

KEEP OUT OF REACH OF CHILDREN

WARNING AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

STATEMENT OF PRACTICAL TREATMENT

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

IF IN EYES: Flush thoroughly with water for several minutes and get medical attention immediately.

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove victim to fresh air.

EPA REG. NO. 48234-

EPA EST. NO. 48234-GA-1

REGAL CHEMICAL COMPANY

Alpharetta, GA 30201

NET WEIGHT 50 POUNDS

ACCEPTED
with COMMENTS
In EPA Letter Dated

MAY 22 1996

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

48234-15

4/17/96



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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.

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, 40CFR 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 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 Worker Protection Standard and that involves contact with anything that has been treated such as plants, soil, or water, is:

- Long sleeved shirts and long pants
- Waterproof Gloves
- Shoes plus socks
- Protective eyewear

GENERAL INFORMATION

RegalStar II is a selective, pre-emergent herbicide for control of annual grasses and broadleaf weeds in established bermudagrass, zoysiagrass, St. Augustine grass, ryegrass, centipedegrass, bentgrass, bluegrass, tall fescue grasses, and on a wide variety of woody ornamental shrubs, vines, and trees. It is especially effective on crabgrass (*Digitaria* spp.), goosegrass (*Eleusine Indica*), and crowfoot (*Dactyloctenium aegyptium*). Many broadleaf annual weeds such as spotted spurge (*euphorbia maculata*), knotweed (*Polygonum* spp.), chickweed (*stellaria media*), and white clover (*M alba Medic*) are controlled pre-emerge from seed. RegalStar II controls the weeds by killing the young weed seedlings as they come in contact with the herbicide during germination.

Ureaform is the fertilizer carrier of the herbicides in RegalStar II. Ureaform is a slow-release, non-burning, non-leaching, odorless, pathogenfree source of nitrogen. Applied at 200 lbs. per acre, it provides the majority or total quantity of nitrogen required by bermudagrass or bluegrass during the entire growing season.

For maximum effectiveness, sufficient rain or irrigation to wash the herbicides into the soil is required. Do not apply to green, wet turf, but wash the granules off the dry turf within 14 days after application with enough water to change the granule color from bright green to blue.

Do not graze or feed livestock forage cut from areas treated with RegalStar II
Do not apply this product though any type of irrigation system
Do not apply aerially.

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TURF

Apply RegalStar II at 200 lbs. product per acre for weed control (4 1/2 lbs. per 1000 sq. ft.). Apply in early spring before weed seed germination.

Apply to dry foliage with a properly calibrated granular applicator at the recommended rate prior to weed seed germination. Complete aerifying, verticutting and raking before applying RegalStar II, so that the protective chemical barrier is not disrupted.

Use only on recommended established turfgrasses. Germination of overseeded grasses may be reduced by as much as 50% more or less, if seeded within 6 months of an application.

For newly seeded bermudagrass, ryegrass, and bluegrasses, delay application until after second mowing. Use on newly sprigged or vegetative planted bermudagrass and bluegrass after stolons have rooted.

APPROXIMATE SPREADER SETTINGS

(For applying RegalStar II in one pass over turf)

Listed below are approximate spreader settings. These should serve only as initial starting points for calibration because all spreaders will vary in their operation depending on the age, condition, particular model and speed of operation. Always calibrate your own spreader according to the manufacturers recommendations.

Rate: 200 lbs. per acre, or 4 1/2 lbs. per 1000 sq. ft.

SPREADER TYPE	WIDTH	SETTING
Regal I Spreader	10' - 12' spread	6 3/4
Cyclone:		
Model B-1-80	6.5 ft. spread	4.0
Gandy:		
Turf Tender (24 & 42 inch)		3.8
Speed 4 m.p.h.		
Scott:		
Model 100	36" spread	5 3/4
Model R8 Cone	12' spread	K 1/2
Model R7X	12' spread	N
Lely	Roman Numeral II, speed 4.5	5 1/4
Vicon	- speed 3.5 m.p.h.	35

Walking speeds should be adjusted to generate indicated spread widths. Slower speeds result in smaller spreads.

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WOODY ORNAMENTAL SHRUBS, VINES AND TREES

Apply RegalStar II to established plants any time during the year, prior to weed seed germination, for weed control. RegalStar II can be applied to both newly transplanted and established ornamentals. Delay application to new transplants until soil has settled around plant. Application can be made to actively growing or dormant ornamentals. Cultivating or disturbing the soil may reduce the weed control of RegalStar II. DO NOT apply to wet foliage or under conditions in which granules will collect on leaves. DO NOT apply in greenhouses.

RegalStar II has demonstrated effective utility on many ornamental plants as a pre-emergent herbicide.

RegalStar II should be applied at 200# of product/acre or 4 1/2#/1000 sq. ft., prior to susceptible weed seed germination, with a suitable spreader which will assure accurate even particle distribution. Do not apply herbicide granules to wet foliage as phytotoxicity can result. Applications should be made to weed free surfaces.

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RegalStar II herbicide has shown excellent results when used on the following
Container &/or Field Grown Ornamentals

<u>Scientific Name</u>	<u>Common Name</u>
Acacia spp.	Acacia
Acer palmatum	Japanes Maple
Barberis gladwynensis	Barberry
Betula papyrifera	Birch, Paper
Buxus microphylla	Japanese Boxwood
Callistemon viminalis	Weeping Bottlebrush
Camellia japonica	Camellia, Common, Japanese
Chamaecyparis pisifera	False Cypress
Cornus florida	Flowering Dogwood
Cortaderia selloana	Pampas Grass
Cotoneaster spp.	Cotoneaster
Cupressus spp.	Cypress
*Euonymus fortunei	Wintercreeper
Forsythia intermedia	Border Forsythia
Gardenia jasminoides	Gardenia, Cape-Jasmine
*Ilex spp.	Holly
Jasminum nudiflorum	Winter Jasmine
Juniperus chinensis	Chinese Juniper
Ligustrum amurense	Amur Privet
Lonicera japonica	Japanese Honeysuckle
Magnolia spp.	Magnolia species
Nerium spp.	Oleander
Pachysandra terminalis	Pachysandra
Photinia fraseri	Frasier's Photinia (Redtip)
Picea abies	Norway Spruce
Pieris japonica	Lily-of-the-Valley Shrub
Pinus spp.	Pine
Pittosporum rhombifolium	Queensland Pittosporum
P. tobira	Japanese Pittosporum
Prunus laurocerasus	English Laurel
Pyracantha coccinea	Firethorn, Scarlet
Quercus spp.	Oak species
Raphiolepis indica	Indian Hawthorne
*Rhododendron spp.	'Coral Bells'
(including azalea)	'Formosa'
	'Hino-crimson'
	'PJM'
	'Roseum Elegans'
Santolina virens	
Taxus cuspidata	Japanese Yew
T. media	Yew
Thuja occidentalis	American Arborvitae
Viburnum japonica	Japanese Viburnum
Vinca major	Vinca
Vinca minor	Dwarf Periwinkle
Weigela florida	Old Fashioned Weigela
Xylosma congestum	Xylosma

* Certain cultivars of these species may be sensitive to this herbicide.
Growers should evaluate usage on a small scale prior to large scale application
if not known.



PRECAUTIONARY STATEMENTS
WARNING

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

KEEP OUT OF REACH OF CHILDREN

Causes eye and skin irritation. Avoid contamination of feed and food -stuffs. Keep opened containers away from children and animals. Harmful if swallowed, or absorbed through skin or inhaled. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Prolonged or frequent repeated skin contact while handling the material may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks
- Protective eyewear

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users Should:

- Wash hands before eating, drinking, chewing gum, using tobacco or us the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product.
- Wash the outside of gloves before removing.
- As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to fish. 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 apply where runoff is likely to occur. Do not contaminate water when disposing of equipment washwaters. Apply only as specified on this label.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

STORAGE: Store in a cool place. Protect from excessive heat.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, pesticide spray 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: Completely empty container into application equipment. Then dispose of empty container in a sanitary landfill, or at an incineration facility, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.



WARRANTY AND LIMITATION OF DAMAGES

It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Regal or seller. All such risks shall be assumed by buyer or user.

Seller warrants that this material conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use and Buyer assumes the risk of any use contrary to such directions. Seller makes no other express or implied warranty, including any other express or implied warranty of Fitness or of Merchantability, and no agent of Seller is authorized to do so except in writing with a specific reference to this warranty. In no event shall Seller's liability for any breach of warranty exceed the purchase price of the material as to which a claim is made.