

US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (TS-767) WASHINGTON, DC 20460  <b>NOTICE OF PESTICIDE:</b> <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION (Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)	EPA REGISTRATION NO. 48234-9	DATE OF ISSUANCE <b>2 FEB 1993</b>
	TERM OF ISSUANCE Conditional, EX IRCS: January 1, 1995	
	NAME OF PESTICIDE PRODUCT RoyalKade 25	

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 conditionally registered in accordance with FIFRA section 3(c)(7)(C) provided that you:

1. submit nitrosamine data to fulfill the regulation that requires a discussion of the formation of impurities (Code of Federal Regulations, 40: section 167(c)) within one year from the date of this notice, if there is a significant level of nitrates and/or nitrites in this product;
2. submit storage stability data for this product within 10 months;
3. add the phrase "EPA Registration No. 48234-9" to the label before you release the product for shipment;
4. submit five (5) copies of the final printed labeling before you release the product for shipment;

and provided that Sangoz Agro, Inc., the manufacturer of the active ingredient of this product, submits the required data to continue the registration of proclamaire as listed in the EPA Fact Sheet No. 231.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 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 (H-7505C)

Enclosure

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL <i>Joanne I. Miller</i>	DATE 2/2/93
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**RegalKade™ 25**

RegalKade 25 is a selective pre-emergent herbicide (prodiamine) coated on a dry fertilizer carrier for control of crabgrass, annual bluegrass, foxtail, common chickweed, henbit, knotweed and prostrate spurge, and many other annual grass and broadleaf weeds in established turf and landscape ornamentals.

**Active Ingredient:**

Prodiamine	[N <sup>3</sup> ,N <sup>3</sup> -Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-m-phenylenediamine].....	0.25%
Inert Ingredients:	.....	99.75%
		Total 100.0%

**Guaranteed Fertilizer Analysis:**

Total Nitrogen(N) .....	32.0%
Available Phosphoric Acid (P <sub>2</sub> O <sub>5</sub> ) .....	3.0%
Soluble Potash (K <sub>2</sub> O) .....	12.0%

Nutrient Sources: Ureaformaldehyde, Urea, Diammonium Phosphate, Muriate of Potash.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust.

E.P.A. Reg. No. 48234-  
E.P.A. Est. No. 48234-GA-1

Regal Chemical Company  
Atlanta, Georgia

2 FEB 1993

48234-9

Jan 26, 1993



**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

Causes moderate eye injury(irritation). Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact while handling the material may cause allergic reactions in some individuals.

**Statements of Practical Treatment**

If in eyes: Flush thoroughly with water for several minutes. Get medical attention if irritation persists.

If on skin: Wash with soap and water. Rinse thoroughly. Get medical attention if irritation persists.

If inhaled: Remove victim to fresh air.

**Environmental Hazards**

This product has low solubility in water. At the limit of solubility, this product is not toxic to fish. However, at concentrations above the level of water solubility, it may be toxic to fish. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff from treated areas may be hazardous to aquatic organisms in adjacent sites. Do not contaminate water when disposing of equipment washwaters.



**GENERAL INFORMATION**

RegalKade 25 is a pre-emergent herbicide on a fertilizer carrier for dry application. It must be applied according to label recommendations in advance of weed seed germination. RegalKade 25 controls susceptible weeds by inhibiting growth of roots and shoots as the weed seeds germinate in turf and landscapes.

RegalKade 25 is intended for use on established turfgrasses to control many annual weeds. The maximum use rates vary according to specific turf species, and the optimum use rates depend on the weed species to be controlled. See tables under Directions For Use.

For most effective weed control RegalKade 25 must be incorporated by 1/2 inch of rainfall, irrigation or shallow mechanical incorporation. Incorporation should take place as soon as possible after application and should not be delayed past 14 days from the date of application.



**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 through any type of irrigation system.

Do not apply aerially.

**Application Directions**

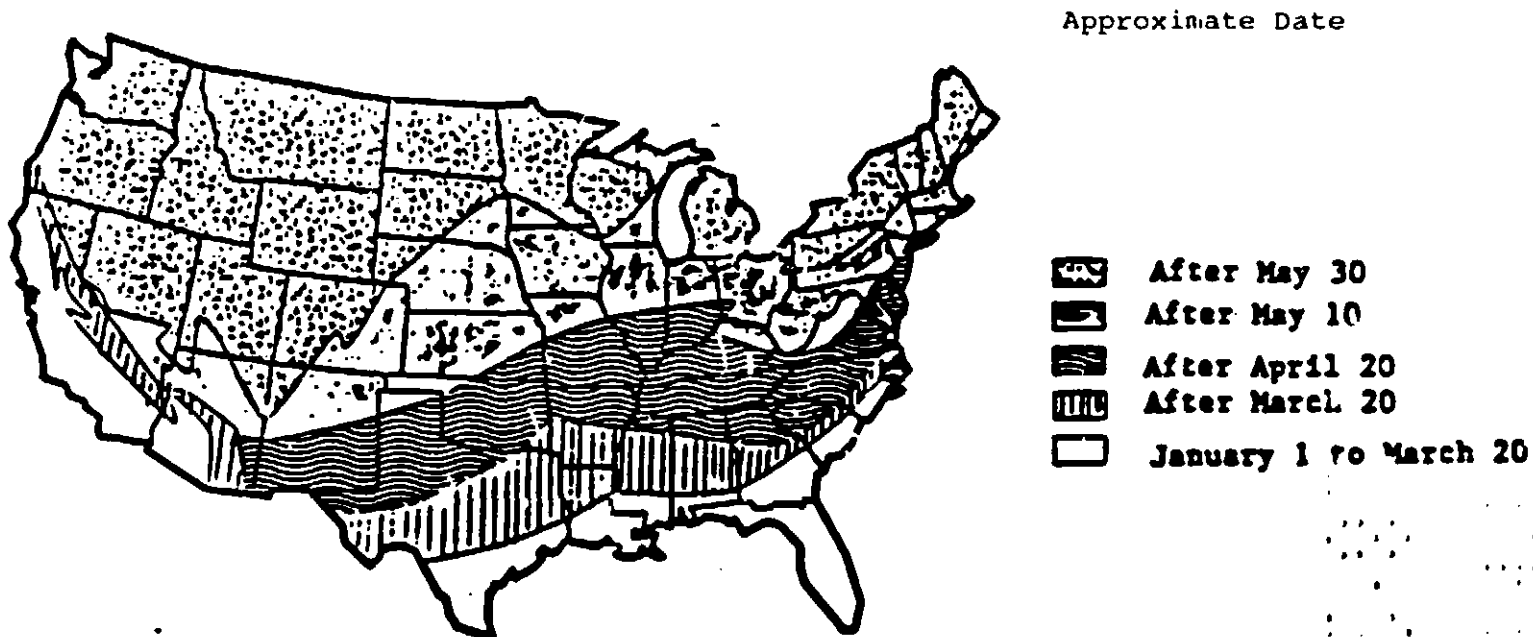
Apply RegalKade 25 at recommended rates with granular spreader equipment. Be sure spreader is properly calibrated and suitable for uniform application.

**ESTABLISHED TURF**

RegalKade 25 is a selective preemergence herbicide that, when properly applied, will control certain grass and broadleaf weeds in established turf. The species of turf grass determines the maximum amount of RegalKade 25 that may be applied during the year.

Most effective weed control in turf grasses will be obtained when RegalKade 25 is activated by at least 1/2 inch of rainfall or irrigation within 14 days of application and prior to weed germination. See map below for approximate crabgrass germination dates.

**CRABGRASS SEED GERMINATION DATES**



Foxtails(yellow, green) tend to germinate before crabgrass; therefore, if targeting foxtails apply RegalKade 25 three(3) weeks before the corresponding crabgrass germination date.



**Use Precautions**

The following use precautions apply to the use of RegalKade 25 in turf grasses:

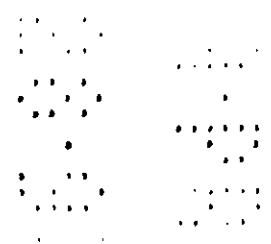
Application of RegalKade 25 may thin emerged annual bluegrass and newly over-seeded grasses.

Do not apply to fall seeded turf until the following spring, and only after the second mowing.

Do not apply to Spring seeded turf or to newly set sod until the following year.

Application of RegalKade 25 to turf stressed by drought, low fertility or pest damage may result in turf injury.

Do not apply RegalKade 25 to tees or greens, or to areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass are the desirable species.





**Maximum Annual Turfgrass Rates**

RegalKade 25 should not be applied above a maximum annual rate of 600lbs./A or 13.75 lbs./1000ft<sup>2</sup>.

**Turf Species and Rates**

For season long control RegalKade 25 may be applied as a single application, or if needed followed by a second application for increased length of control. The length of time of residual weed control provided by RegalKade 25 is related to the rate applied. Use the higher rate within the listed range for longer control. Longer control is desirable in areas where crabgrass germinates between January 1 and April 20 (See Crabgrass Seed Germination Data Map).

Select maximum use rate based on turf grass species. All applications must be made prior to germination of the target weed seeds.

The rates listed in the table below are for weed control of approximately 2-6 months.

Turf Species and Rates Table:

TURF SPECIES	MINIMUM AND MAXIMUM RATE OF REGALKADE 25 PER CALENDAR YEAR	
	POUNDS/ACRE	POUNDS/1000 FT <sup>2</sup>
Bermudagrass Centipede Seashore Paspalum Tall Fescue Zoysia	128 - 600	3.0 - 14.0
Perennial Bluegrass Perennial Ryegrass	128 - 400	3.0 - 9.2
Creeping Red Fescue St. Augustine	128 - 300	3.0 - 7.0
Creeping Bentgrass min. 1/2 inch height	128 - 250	3.0 - 6.0

- \* Do not apply more than 300 lbs. of RegalKade 25 per application.
- \* Do not make more than 2 applications per calendar year.
- \* Do not apply more than 600 lbs. of RegalKade 25 per calendar year.
- \* If making two applications, wait at least 60 days after the initial application before making a second application.
- \* Use higher rates of RegalKade 25 to achieve higher levels of fertility and weed control for each turf type.



**Weeds Controlled**

When used at the recommended rates(see Turf and Rates Table) RegalKade 25 will control:

- |                               |                            |
|-------------------------------|----------------------------|
| Annual Bluegrass              | Knotweed                   |
| Common Chickweed <sup>1</sup> | Oxalis                     |
| Crabgrass(Large, Smooth)      | Prostrate Spurge           |
| Foxtails(Yellow, Green)       | Rescuegrass <sup>3</sup>   |
| Goosegrass <sup>2</sup>       | Shepardspurse <sup>1</sup> |
| Henbit                        |                            |

1. Fall Application.
2. For best control of goosegrass apply 300 lbs./A. Sixty (60) days later make a second application with 128 to 300 lbs./A of product (see information in Turf Species and Rates section).
3. Suppression only.

**Overseeding/Reseeding**

RegalKade 25 will inhibit the germination of turf species if overseeded/reseeded too soon after application. The interval between application and overseeding/reseeding is dependent on the application rate, soil temperature, and soil moisture. A shorter interval is possible if growing conditions are warm and wet, while a longer interval is needed if conditions are cool and dry.

Use the Overseeding/Reseeding Intervals Table below as a guide when choosing the appropriate overseeding/reseeding interval for each situation.

Overseeding/Reseeding Intervals Table:

RegalKade 25 Rate (LBS./A)	Overseeding/Reseeding Interval (months) Based Upon Seeding Method and Predominate Soil Conditions for the Season			
	Broadcast Seeding		Drill Seeding	
	Wet and Warm	Cool and Dry	Wet and Warm	Cool and Dry
128 - 200	4	6	3	4
201 - 400	8	12	6	8
401 - 600	12	18	9	12





### LANDSCAPE ORNAMENTALS

RegalKade 25 will not harm most established ornamental trees, shrubs and flowers when applied to surrounding areas in accordance to the directions given in Directions for Use. The following species have shown tolerance to RegalKade 25.

<u>Scientific Name</u>	<u>Common Name</u>
Acer palmatum	Japanese Maple
A. platanoides	Norway Maple
Actinidia chinensis	Kiwi*
Agapanthus africanus	Lily-of-the-Nile
Arctostaphylos densiflora	Vine Hill Manzanita
Arctotheca calendula	Cape Weed
Aucuba japonica	Japanese Aucuba
Barberis gladwynensis	
B. julianae	Wintergreen Barberry
B. mentorensis	Mentor Barberry
B. thunbergii	Japanese Barberry
B. verruculosa	Warty Barberry
Buxus microphylla	Japanese Boxwood
Callistemon viminalis	Weeping Bottlebrush
Calluna vulgaris	Scotch Heather
Carpobrotus edulis	Hottentot Fig (Ice Plant)
Cassia artemisoides	Feathery Cassia
Ceanothus rigidus	Wild Lilac
Chamaecyparis pisifera	False Cypress
Cleyera japonica	Cleyera
Cornus florida	Flowering Dogwood
C. stolonifera	American Dogwood
Cortaderia selloana	Pampas Grass
Cotoneaster apiculatus	Cranberry Cotoneaster
C. buxifolius	
C. dammeri	Bearberry Cotoneaster
C. microphyllus	Rockspray Cotoneaster
Cupressus sempervirens	Italian Cypress
Delasperma alba	White Trailing Ice Plant
Dodonea viscosa	Hop Bush
Elaeagnus pungens	Silverberry
Euonymus fortunei	Wintercreeper
E. japonica	Evergreen Euonymus
E. kiautschovica	Spreading Euonymus
F. tsia japonica	Japanese Aralia
Forsythia intermedia	Border Forsythia
F. viridissima	Greenstem Forsythia
Gardenia jasminoides	Gardenia, Cape-Jasmine
Hedera helix	English Ivy
Hibiscus rosa-sinensis	Chinese Hibiscus
Ilex cornuta	Chinese Holly
I. crenata	Japanese Holly
I. opaca	American Holly
I. pernyi	

\* Ornamental species only. Do not use on food producing trees or vines.



Scientific Name

Common Name

Jasminium nudiflorum	Winter Jasmine
Juniperus chinensis	Chinese Juniper
J. conferta	Shore Juniper
J. horizontalis	Creeping Juniper
Juglans sp.	Walnut*
Justicia brandegeana	Shrimp Plant
Lagerstromia indica	Crepe Myrtle
Ligustrum amurense	Amur Privet
L. japonicum	Japanese Privet
L. lucidum	Glossy Privet
Liriope muscari	Big Blue Lily Turf
Lonicera japonica	Japanese Honeysuckle
L. tatarica	Tatarian Honeysuckle
Maleophora luteola	Ice Plant
Malus sp.	Crabapple*
Nandina domestica	Heavenly Bamboo
Olea europa	Olive*
Ophiopogon japonicus	Mondo Grass
Osteospermum fruticosum	Trailing African Daisy
Oxydendrum arboreum	Sourwood
Persea americana	Avocado*
Photinia fraseri	Frasier's Photinia
Picea abies	Norway Spruce
Pieris japonica	Lily-of-the-Valley Shrub
Pinus brutia	Calabrian Pine
P. canariensis	Canary Island Pine
P. halepensis	Aleppo Pine
P. nigra	Austrian Black Pine
P. radiata	Monterey Pine
P. thunbergiana	Japanese Black Pine
P. strobus	Eastern White Pine
P. sylvestris	Scotch Pine
Pistachio sp.	Pistachio*
Pittosporum rhombifolium	Queensland Pittosporum
P. tobira	Mock Orange
Podocarpus macrophyllus	Japanese Yew
Prunus laurocerasus	English Laurel
Prunus sp.	Almond, Apricot, Nectarine, Peach, Plum, Prune*
Pyracantha coccinea	Firethorn
P. fortuneana	Firethorn
P. koizumii	Firethorn
Pyrus sp.	Bradford Pear sp.
Quercus rubra	Red Oak
Raphielepis indica	Indian Hawthorne
Rhododendron	'Coral Bells'
(including Azalea)	'Formosa'
	'Hino-crimson'
	'PJM'
	'Roseum Elegans'
Rosa banksiae	Lady Bank's Rose
Rosmarinus officinalis	Rosemary
Rumohra adiantiformis	Leatherleaf Fern

\* Ornamental species only. Do not use on food producing trees or vines.



<u>Scientific Name</u>	<u>Common Name</u>
Santolina virens	
Sedum album	Stonecrop
Syzygium paniculatum	Japanese Boxcherry
Taxus cuspidata	Japanese Yew
T. media	Yew
Thuja occidentalis	American Arborvitae
Trachelospermum asiaticum	Star Jasmine
Tsuga canadensis	Canada Hemlock
Viburnum japonicum	Japanese Viburnum
V. odoratissimum	Sweet Viburnum
V. plicatum	Japanese Snowball
V. rigidum	Canary Island Viburnum
V. tinus	Laurustinus
V. trilobium	Cranberry Bush
V. wrightii	
Vinca minor	Dwarf Periwinkle
Vitis sp.	Grape*
Weigela florida	Old Fashioned Weigela
Yucca aloifolia	Spanish Bayonet
Yucca filamentosa	Yucca
	Adam's Needle

\*Ornamental species only. Do not use on food producing trees or vines.

**RegalKade™ 25**

**STORAGE AND DISPOSAL**

DO NOT contaminate water, food or feed by storage or disposal.

**STORAGE:** Store in original container away from other fertilizer, feed or food stuffs and separated from other pesticides.

**CONTAINER DISPOSAL:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration if allowed by state and local authorities. If burned, stay out of smoke. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**REGAL CHEMICAL COMPANY**  
Alpharetta, Georgia 30201

Regal Chemical Company warrants that this product conforms to the chemical descriptions on its label. When used in accordance with label directions under normal conditions, this product is reasonably fit for its intended purpose. Since timing, method of application, weather, plant and soil conditions, mixtures with other chemicals, and other factors affecting the use of this product are beyond our control, no warranty is given concerning the use of this product contrary to label directions or under conditions which are abnormal or nor reasonably foreseeable. The user assumes all risks of any such use.