

US ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDES PROGRAMS  
REGISTRATION DIVISION (TS-767)  
WASHINGTON, DC 20460

EPA REGISTRATION NO.

48234-8

DATE OF ISSUANCE

2 FEB 1993

NOTICE OF PESTICIDE:  REGISTRATION  
 REREGISTRATION  
(Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended)

TERM OF ISSUANCE

Conditional. Expires: January 1, 1995

NAME OF PESTICIDE PRODUCT

RegalKade 30

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(b)) 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 18 months.
3. Add the phrase "EPA Registration No. 48234-8" 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 Sandoz Agro, Inc., the manufacturer of the active ingredient of this product, submits the required data to continue the registration of prodiamine 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

*Joanne I. Miller*

DATE

2/1/93

PMJE 48234-8

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**RegalKade™ 30**

RegalKade 30 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>2</sup> -Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-m-phenylenediamine].....	0.30%
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Inert Ingredients:	.....	99.70%
		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

48234-8

**BEST AVAILABLE COPY**



**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.

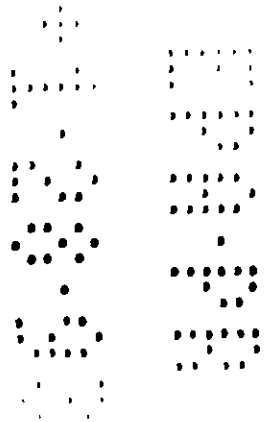
**Statements of Practical Treatment**

- 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 persist.
- 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.

**BEST AVAILABLE COPY**



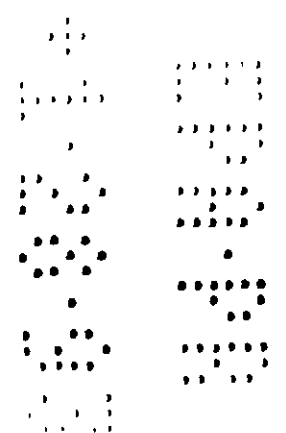


**GENERAL INFORMATION**

RegalKade 30 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 30 controls susceptible weeds by inhibiting growth of roots and shoots as the weed seeds germinate in turf and landscapes.

RegalKade 30 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 30 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**

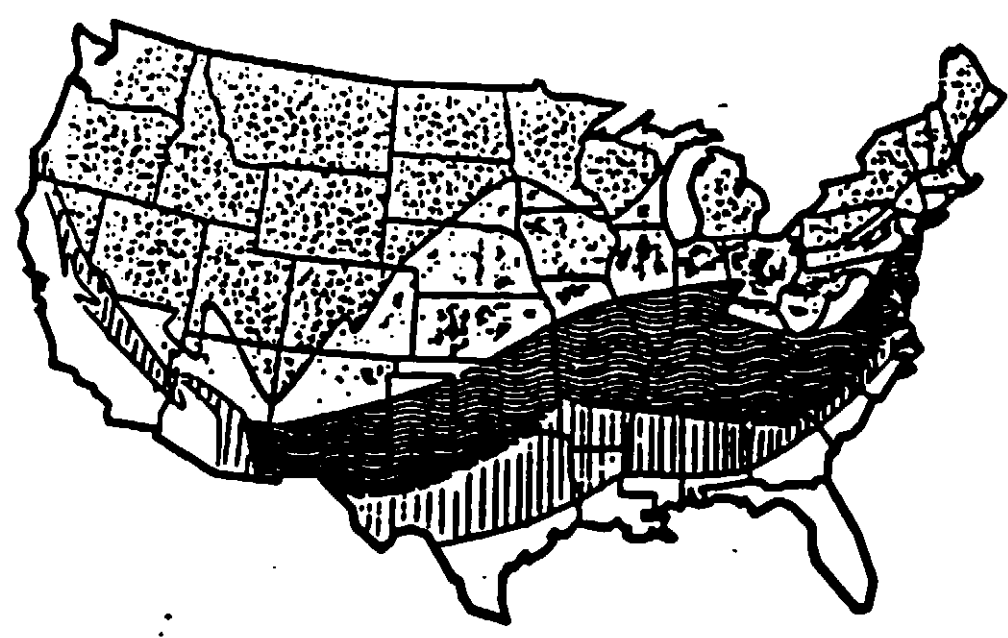
Apply RegalKade 30 at recommended rates with granular spreader equipment. Be sure spreader is properly calibrated and suitable for uniform application.

**ESTABLISHED TURF**






RegalKade 30 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 30 that may be applied during the year.

Most effective weed control in turf grasses will be obtained when RegalKade 30 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.

**CRABPASS SEED GERMINATION DATES**



Approximate Date

-  After May 30
-  After May 10
-  After April 20
-  After March 20
-  January 1 to March 20

Foxtails (yellow, green) tend to germinate before crabgrass; therefore, if targeting foxtails apply RegalKade 30 three (3) weeks before the corresponding crabgrass germination date.



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### Use Precautions

The following use precautions apply to the use of RegalKade 30 in turf grasses:

Application of RegalKade 30 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 30 to turf stressed by drought, low fertility or pest damage may result in turf injury.

Do not apply RegalKade 30 to tees or greens, or to areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass are the desirable species.



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**Maximum Annual Turfgrass Rates**

RegalKade 30 should not be applied above a maximum annual rate of 500lbs./A or 11.5 lbs./1000ft<sup>2</sup>.

**Turf Species and Rates**

For season long control RegalKade 30 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 30 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 30 PER CALENDAR YEAR	
	POUNDS/ACRE	POUNDS/1000 FT <sup>2</sup>
Bermudagrass Centipede Seashore Paspalum Tall Fescue Zoysia	107 - 500	2.5 - 11.5
Perennial Bluegrass Perennial Ryegrass	107 - 334	2.5 - 7.7
Creeping Red Fescue St. Augustine	107 - 250	2.5 - 5.7
Creeping Bentgrass min. 1/2 inch height	107 - 217	2.5 - 5.0

- \* Do not apply more than 250 lbs. of RegalKade 30 per application.
- \* Do not make more than 2 applications per calendar year.
- \* Do not apply more than 500 lbs. of RegalKade 30 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 30 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 30 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 250 lbs./A. Sixty (60) days later make a second application with 107 to 250 lbs./A of product (see information in Turf Species and Rates section).
3. Suppression only.

**Overseeding/Reseeding**

RegalKade 30 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 30 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
107 - 165	4	6	3	4
166 - 334	8	12	6	8
335 - 500	12	18	9	12





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### LANDSCAPE ORNAMENTALS

RegalKade 30 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 30.

#### Scientific Name

#### Common Name

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 vim' alis	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
Fatsia 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 NameCommon 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. koidzumii	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.



Scientific Name

Common Name

Santolina virens  
 Sedum album  
 Syzygium paniculatum  
 Taxus cuspidata  
 T. media  
 Thuja occidentalis  
 Trachelospermum asiaticum  
 Tsuga canadensis  
 Viburnum japonicum  
 V. odoratissimum  
 V. plicatum  
 V. rigidum  
 V. tinus  
 V. trilobium  
 V. wrightii  
 Vinca minor  
 Vitis sp.  
 Weigela florida  
 Yucca aloifolia  
 Yucca filamentosa

Stonecrop  
 Japanese Boxcherry  
 Japanese Yew  
 Yew  
 American Arborvitae  
 Star Jasmine  
 Canada Hemlock  
 Japanese Viburnum  
 Sweet Viburnum  
 Japanese Snowball  
 Canary Island Viburnum  
 Laurustinus  
 Cranberry Bush  
  
 Dwarf Periwinkle  
 Grape\*  
 Old Fashioned Weigela  
 Spanish Bayonet  
 Yucca  
 Adam's Needle

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

RegalKade™ 30

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 not reasonably foreseeable. The user assumes all risks of any such use.