

48234-16

9-16-1996

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US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (75-767) WASHINGTON, DC 20460  <b>NOTICE OF PESTICIDE:</b> <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION <i>(Under the Federal Insecticide, Fungicide,          and Rodenticide Act, as amended)</i>	EPA REGISTRATION NO. 48234-16	DATE OF ISSUANCE
	TERM OF ISSUANCE Unconditional	SEP 16 1996
	NAME OF PESTICIDE PRODUCT Regalkade G	

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)(5) provided that you:

- o Submit one (1) copy of the final printed labeling before you release the product for shipment.

If this condition is 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 this condition. A stamped copy of the label is enclosed for your records.

Joanne I. Miller  
 Product Manager (25)  
 Fungicide-Herbicide Branch  
 Registration Division (7505C)

Enclosure

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL <i>Joanne I. Miller</i>	DATE SEP 16 1996
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2/15



ACCEPTED  
with COMMENTS  
In EPA Letter Dated

SEP 16 1996

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
48234-AA-1b

# RegalKade® G

**ACTIVE INGREDIENT:**

Prodiamine, [N<sup>3</sup>,N<sup>3</sup>-Di-n-propyl-2,4-dinitro-6-(trifluoromethyl)-m-phenylenediamine]..... 0.5%

**INERT INGREDIENTS:**..... 99.5%

**TOTAL:**..... 100.0%

For selective preemergence control of grass and broadleaf weeds in:

- Container and Field Grown Ornamentals
- Conifer and Hardwood Seedling Nurseries
- Established Perennial & Wildflower Plantings

## KEEP OUT OF REACH OF CHILDREN CAUTION

See next page for additional precautionary statements and  
statement of practical treatment.

EPA Reg. No. 48234 - *RA*  
EPA Est. No.

Net Contents:

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



## 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.

#### Personal Protective Equipment (PPE):

##### WPS USES:

##### Applicators and other handlers:

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

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.

##### Engineering Controls Statements:

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.



**User Safety Recommendations:**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- After handling this product, immediately wash the outside of gloves before removing them, then remove gloves and all other PPE. Immediately wash thoroughly and change into clean clothing.

**STATEMENT 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 substantially 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.



### 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, 40 CFR 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 the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

Exception: If the product is soil injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:

- Coveralls
- Waterproof gloves
- Shoes plus socks



6/15

**RegalKade G** is a selective preemergence herbicide that provides residual control of many grass and broadleaf weeds in:

- **Container and Field Grown Ornamentals**
- **Conifer and Hardwood Seedling Nurseries**
- **Established Perennial & Wildflower Plantings**

RegalKade G controls susceptible weeds by inhibiting weed seeds germination and root development. Most effective weed control will be obtained when RegalKade G is activated by at least 0.5 in of rainfall or irrigation, or with shallow (1 to 2 in) incorporation, prior to weed seed germination and within 14 days following application.

Do not graze or feed livestock forage cut from areas treated with RegalKade G.

Do not apply this product through any type of irrigation system.

Do not apply aerially.

#### **Application Directions**

Apply uniformly with suitable, calibrated application equipment.



7/15

## CONTAINER AND FIELD GROWN ORNAMENTALS

(including Christmas Trees, Established Perennial and Wildflower Plantings)

RegalKade G may be applied for residual preemergence weed control in the culture of ornamentals.

### Use Rates

Apply RegalKade G at 132 to 300 lb/A in fall and/or spring. Use higher rates of application for longer control periods. Sequential applications may be made so long as the total amount of product applied does not exceed the maximum annual application rate of 300 lb/A. All applications must be made prior to germination of the weed seeds.

### Weeds Controlled

When used in accordance with this label RegalKade G will provide control of the following weeds:

Barnyardgrass	Carpetweed
Bluegrass, Annual ( <i>Poa annua</i> )	Chickweed, Common
Crabgrass (large, smooth)	Chickweed, Mouseear (from seed)
Crowfootgrass	Henbit
Cupgrass, Woolly	Knotweed
Foxtails, Annual	Kochia
Goosegrass	Lambsquarter, Common
Itchgrass	Pigweed
Johnsongrass (from seed)	Purslane, Common
Junglerice	Pusley, Florida
Lovegrass	Shepherd's Purse <sup>1</sup>
Panicum, (Texas, Fall, Browntop)	Speedwell, Persian
Rescuegrass <sup>2</sup>	Spurge, Prostrate
Signalgrass, Broadleaf	Woodsorrel, Yellow (from seed)
Sprangletop	
Witchgrass	

<sup>1</sup> Applications for this weed should be made in late summer, fall or winter prior to germination.

<sup>2</sup> Suppression only.

8/15



**Application Timing and Information**

RegalKade G may be applied to newly transplanted and established container or field nursery stock as a broadcast, over the top application. Irrigation or rainfall soon after application will wash granules off plant foliage and activate REGALKADE G in the soil.

Apply RegalKade G to dry foliage only.

RegalKade G may be applied at any time to established plants. Delay application to allow soil to settle around new transplants and water thoroughly before applying RegalKade G. Apply RegalKade G after cuttings form roots and become established. Apply before budding/grafting or after buds/grafts have taken to avoid any inhibition of the tissue union.

In addition to outdoor locations, RegalKade G may be applied in shadehouses and uncovered polyhouses. Uncovered polyhouses must remain open for a minimum of 30 days following treatment.

RegalKade G may be applied to soil (including mulch, gravel, wood chips, or other permeable base) upon which containerized ornamentals are placed. Only shallow cultivation or hand weeding, if necessary after application, should be performed so as to minimize exposure of untreated soil.

RegalKade G is a preemergence herbicide and will not control emerged weeds. Most effective weed control in ornamentals will be obtained when RegalKade G is activated by at least 0.5 in of rainfall or irrigation, or with shallow (1 to 2 in) mechanical incorporation, prior to weed seed germination and within 14 days following application.

Best weed control is obtained when RegalKade G is applied to soil free of clods, weeds, and debris such as leaves. Prior to application of RegalKade G, control existing vegetation by hand weeding, cultivation or the use of an appropriate postemergence herbicide.





9/15

### Tolerant Ornamental Species

RegalKade G will not harm most ornamental trees, shrubs and flowers. The species listed below are tolerant to RegalKade G. Best results will be obtained when RegalKade G is uniformly applied to the soil surface. RegalKade G may be applied over the top of these species without injury.

Scientific name	Common name
<i>Abies</i> spp.	Fir species** (Balsam, Fraser, Noble, etc.)
<i>Acer palmatum</i>	Japanese Maple
<i>A. platanoides</i>	Norway Maple
<i>Actinidia chinensis</i>	Kiwi*
<i>Agapanthus africanus</i>	Lily-of-the-Nile (African Lily)
<i>Arctostaphylos densiflora</i>	Vine Hill Manzanita
<i>Arctotheca calendula</i>	Cape Weed
<i>Aucuba japonica</i>	Japanese Aucuba
<i>Barberis gladwynensis</i>	Barberry
<i>B. julianae</i>	Wintergreen Barberry
<i>B. mentorensis</i>	Mentor Barberry
<i>B. thunbergii</i>	Japanese Barberry
<i>B. verruculosa</i>	Warty Barberry
<i>Buxus microphylla</i>	Japanese Boxwood
<i>Callistemon viminalis</i>	Weeping Bottlebrush
<i>Calluna vulgaris</i>	Scotch Heather
<i>Carpobrotus edulis</i>	Hottentot Fig (Ice Plant)
<i>Cassia artemisoides</i>	Feathery Cassia
<i>Ceanothus rigidus</i>	Wild Lilac
<i>Chamaecyparis pisifera</i>	False Cypress
<i>Cleyera japonica</i>	Cleyera
<i>Citrus</i> spp.	Citrus species*
<i>Comus florida</i>	Flowering Dogwood
<i>C. stolonifera</i>	American Dogwood
<i>Cortaderia selloana</i>	Pampas Grass
<i>Cotoneaster apiculatus</i>	Cranberry Cotoneaster
<i>C. buxifolius</i>	Cotoneaster
<i>C. dammeri</i>	Bearberry Cotoneaster
<i>C. microphyllus</i>	Rockspray Cotoneaster
<i>Cretaeagus</i> spp.	Hawthorne
<i>Cupressus sempervirens</i>	Italian Cypress
<i>Delasperma alba</i>	White Trailing Ice Plant

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

\*\*For use on field grown production or nursery stock.



10/15

Scientific name

Common name

<i>Dodonea viscosa</i>	Hop Bush
<i>Elaeagnus pungens</i>	Silverberry
<i>Euonymus fortunei</i>	Wintercreeper
<i>E. japonica</i>	Japanese Spindle Tree (Evergreen Euonymus)
<i>E. kiautschovica</i>	Spreading Euonymus
<i>Fatsia japonica</i>	Japanese Aralia
<i>Forsythia intermedia</i>	Border Forsythia
<i>F. viridissima</i>	Greenstem Forsythia
<i>Gardenia jasminoides</i>	Gardenia, Cape-Jasmine
<i>Gladiolus</i> spp.	Gladiolus species**
<i>Hedera helix</i>	English Ivy
<i>Hibiscus</i>	Rose of Sharon**
<i>Hibiscus rosa-sinensis</i>	Chinese Hibiscus
<i>Ilex cornuta</i>	Chinese Holly
<i>I. crenata</i>	Japanese Holly
<i>I. opaca</i>	American Holly
<i>I. pernyi</i>	Holly
<i>I. vomitoria</i>	Yaupon
<i>Iris</i> spp.	Iris species**
<i>Jasminium nudiflorum</i>	Winter Jasmine
<i>Juniperus chinensis</i>	Chinese Juniper
<i>J. conferta</i>	Shore Juniper
<i>J. horizontalis</i>	Creeping Juniper
<i>Juglans</i> sp.	Walnut*
<i>Justicia brandegeana</i>	Shrimp Plant
<i>Lagerstromia indica</i>	Crepe Myrtle
<i>Ligustrum amurense</i>	Amur Privet
<i>L. japonicum</i>	Japanese Privet
<i>L. lucidum</i>	Glossy Privet (Waxleaf)
<i>Liriope muscari</i>	Big Blue Lily Turf
<i>Lonicera japonica</i>	Japanese Honeysuckle
<i>L. tatarica</i>	Tatarian Honeysuckle
<i>Magnolia</i> spp.	Magnolia species**
<i>Maleophora luteola</i>	Ice Plant
<i>Malus</i> sp.	Crabapple*
<i>Nandina domestica</i>	Heavenly Bamboo
<i>Narcissus</i> spp.	Narcissus species**
<i>Nerium</i> spp.	Oleander

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11/15

Scientific name

Common name

<i>Olea europa</i>	Olive*
<i>Ophiopogon japonicus</i>	Mondo Grass
<i>Osteospermum fruticosum</i>	Trailing African Daisy
<i>Oxydendrum arboreum</i>	Sourwood
<i>Persea americana</i>	Avocado*
<i>Photinia fraseri</i>	Frasier's Photinia (Redtip)
<i>Picea</i> spp.	Spruce species** (Colorado Blue, Norway, etc.)
<i>Pieris japonica</i>	Lily-of-the-Valley Shrub
<i>Pinus brutia</i>	Calabrian Pine
<i>P. canariensis</i>	Canary Island Pine
<i>P. elliotii</i>	Slash Pine
<i>P. halepensis</i>	Aleppo Pine
<i>P. nigra</i>	Austrian Black Pine
<i>P. palustris</i>	Longleaf Pine
<i>P. radiata</i>	Monterey Pine
<i>P. thunbergiana</i>	Japanese Black Pine
<i>P. strobus</i>	Eastern White Pine
<i>P. sylvestris</i>	Scotch Pine
<i>P. taeda</i>	Loblolly Pine
<i>P. virginiana</i>	Virginia Pine
<i>Pistachio</i> sp.	Pistachio*
<i>Pittosporum rhombifolium</i>	Queensland Pittosporum
<i>P. tobira</i>	Japanese Pittosporum
<i>Podocarpus macrophyllus</i>	Japanese Yew
<i>Prunus laurocerasus</i>	English Laurel
<i>Prunus</i> sp.	Almond, Apricot, Nectarine, Peach, Plum and Prune*
<i>Pseudotsuga menziesii</i>	Douglas Fir**
<i>Pyracantha coccinea</i>	Firethorn, Scarlet
<i>P. fortuneana</i>	Firethorn
<i>P. koidzumii</i>	Firethorn
<i>Pyrus</i> sp.	Bradford Pear sp.
<i>Quercus</i> spp.	Oak species
<i>Raphiolepis indica</i>	Indian Hawthorne

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

\*\*For use on field grown production or nursery stock.



12/15

Scientific name

Common name

*Rhododendron*  
(including Azalea)

'Coral Bells'  
'Formosa'  
'Hino-crimson'  
'PJM'  
'Roseum Elegans'  
Lady Bank's Rose  
Rosemary  
Leatherleaf Fern

*Rosa banksiae*  
*Rosmarinus officinalis*  
*Rumohra adiantiformis*  
*Santolina virens*  
*Sedum album*  
*Syzygium paniculatum*  
*Taxus cuspidata* ,  
*T. media*  
*Thuja occidentalis*  
*Trachelospermum asiaticum*  
*Tsuga canadensis*  
*Tulip* spp.  
*Viburnum japonicum*  
*V. odoratissimum*  
*V. plicatum*  
*V. rigidum*  
*V. tinus*  
*V. trilobium*  
*V. wrightii*  
*Vinca major*  
*Vinca minor*  
*Vitis* sp.  
*Weigela florida*  
*Yucca aloifolia*  
*Y. filamentosa*

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

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



### CONIFER AND HARDWOOD SEEDLING NURSERIES

RegalKade G may be applied for residual preemergence weed control in conifer and hardwood seedling nurseries.

RegalKade G may be applied to conifer and hardwood seedling nurseries any time after the soil has settled around newly transplanted seedlings, liners or bare root plants.

Apply RegalKade G at 132 to 300 lb/A in fall and/or spring. Use higher rates of application for longer control periods. Sequential applications may be made so long as the total amount of product applied does not exceed the maximum annual application rate of 300 lb/A.

Most effective weed control will be obtained when RegalKade G is activated by at least 0.5 in of rainfall or irrigation prior to weed seed germination and within 14 days following application.

### NEW PLANTINGS, REPLANTING AND CROP ROTATION

If areas are to be seeded, do not apply RegalKade G until seeded plants are up and well established.

Areas treated with RegalKade G should be rotated only to species listed on this label for 1 year following application unless the following test has shown species safety:

Before planting a species not listed on this label it is recommended that several test strips of an indicator plant such as wheat, sorghum or corn be sown into the treated area. If the indicator plants germinate and grow normally to a height of 12 inches with normal root development, it is safe to plant.

In areas disturbed by new plantings or replanting of labeled species, it may be necessary to retreat exposed soil to maintain satisfactory weed control.

14/15



## **STORAGE AND DISPOSAL**

Do not contaminate water, food, or feed by storage or disposal.

### **STORAGE**

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

### **PESTICIDE DISPOSAL**

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### **CONTAINER DISPOSAL**

Paper containers: 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 locally. If burned, stay out of smoke.

RegalKade® is a registered trademark of Regal Chemical Company.



15/15

## LIMITATION OF WARRANTY AND LIMITATION OF LIABILITY

**NOTICE:** Read this Limitation of Warranty and Limitation of Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

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 Chemical Company or seller. All such risks shall be assumed by buyer or user.

Regal Chemical Company warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, under normal use conditions, subject to the risks described above. REGAL CHEMICAL COMPANY MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

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