

PM 25 43234-14 11/30/74

US ENVIRONMENTAL PROTECTION AGENCY  
OFFICE OF PESTICIDES PROGRAMS  
REGISTRATION DIVISION (75 767)  
WASHINGTON, DC 20460

EPA REGISTRATION NO.

DATE OF ISSUANCE

43234-14

NOV 30 1974

TERM OF ISSUANCE

Indefinite

NAME OF PESTICIDE PRODUCT

Alpharetta, GA 30201

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

NAME AND ADDRESS OF REGISTRANT (Include ZIP code)

Regal Chemical Co.  
P.O. Box 900  
Alpharetta, GA 30201

**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 covered by the Federal Insecticide, Fungicide, and Rodenticide Act, and the Administrator hereby certifies that you are in compliance with the requirements of section 3(c)(1)(A) provided that you:

1. Add the phrase "EPA Registration No. 43234-14" to the label of this product.
2. Submit to the Administrator a copy of the label of this product for review and approval.
3. Submit to the Administrator a copy of the label of this product under which you are currently marketing the product, and submit acceptable responses required for reregistration of your product under FIFRA Sec. 4.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with the Act, section 3(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of this label is enclosed for your records.

**BEST AVAILABLE COPY**

enclosures

John A. Huff  
Product Manager (23)  
Pesticide-Registration Branch  
Registration Division (7550)

ATTACHMENT IS APPLICABLE

SIGNATURE OF APPROVING OFFICIAL

*[Handwritten Signature]*

DATE

11/30/74



Regal Ronstar Plus I

For sale for use and storage by commercial nursery, turf and landscape personnel only. Not for use on home lawns.

Regal Ronstar Plus I is a selective, pre-emergence herbicide for control of annual grasses and broadleaf weeds in ornamental turf and woody ornamental shrubs, vines, and trees.

ACTIVE INGREDIENT:

Oxadiazon [2-tert-butyl-4-(2,4 dichloro-5-isopropoxyphenyl)-delta-1,3,4-oxadiazolin-5-one].....1.0%

INERT INGREDIENTS: .....99.0%

Guaranteed Fertilizer Analysis: (98% of product)

Total Nitrogen (N)..... 10.0%
Nitrate Nitrogen..... 1.5%
Ammoniacal Nitrogen..... 8.5%
Derived from:
Ammonium Nitrate, Sulphate of Ammonia

Available Phosphoric Acid (P2O5).....10.00%
Derived from:
Superphosphate, Triple Superphosphate

Soluble Potash (K2O).....10.00%
Derived from:
Muriate of Potash, Sulphate of Potash Magnesia

Secondary and Micronutrients:

Calcium (Ca).....4.00%
Total Magnesium (Mg).....2.00%
W.S. Magnesium(Mg).....2.00%
Sulphur (combined) (S).....10.00%
Boron (B)......07%
Iron (Fe)......20%
Manganese (Mn)......25%
Zinc (Zn)......25%
Chlorine (Cl).....6.00%

Secondary and Micronutrient Sources:

Superphosphate, Sulphate of Potash, Magnesia, Borate, Iron Oxide, Manganese Oxide, Zinc Oxide.

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

IF ON SKIN: Wash with soap and water.

IF IN EYES: Flush with plenty of water; get medical attention.

EPA REG. NO. 48234-

EPA EST. NO. 48234-GA-1

6/23/94



## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

#### WARNING

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.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Coveralls over short-sleeved shirt and short pants
- Waterproof gloves
- Chemical resistant apron when cleaning equipment, mixing or loading
- Protective eyewear
- Chemical resistant head gear for overhead exposure
- Chemical resistant foot wear 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.

#### 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.

#### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish. Use with care when applying in areas adjacent to any body of water. DO NOT contaminate water by cleaning of equipment or disposal of wastes. DO NOT apply directly to water.

#### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Read entire label before using this product.

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.

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 over short-sleeved shirt and short pants
- Waterproof gloves
- Chemical resistant footwear plus socks
- Chemical resistant head gear for overhead exposure

Do not apply Regal Ronstar Plus I through any type of irrigation system.

#### STORAGE AND DISPOSAL

##### STORAGE

Do not contaminate water, food or feed by storage or disposal. Do not store in or around the home.

##### 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

Completely empty bag into application equipment. Then dispose of empty bag in a sanitary land fill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

#### GENERAL INFORMATION

Regal Ronstar Plus I is a selective, pre-emergent herbicide for control of annual grasses and many broadleaf weeds in ornamental turf and on a wide variety of woody ornamental shrubs, vines, and trees. Regal Ronstar Plus I controls weeds by killing the young weed seedlings as they come in contact with the herbicide during germination.

Regal premium fertilizer is the carrier for the herbicide. Nutrients will be supplied according to the rates applied, but they are inert to the herbicide and its activity.

##### ORNAMENTAL TURF

For use in established perennial Bluegrass, Bermudagrass, Perennial Ryegrass, St. Augustine grass, Tall Fescue, and Zoysia turf; such as fairways, parks, golf courses, and lawns. Regal Ronstar Plus I controls Crabgrass (*Digitaria* Spp.), Annual Bluegrass (*poa annua*), Goosegrass (*Eleusine indica*); and it also controls Florida Pusley (*Richardia scabra*), Oxalis (*Oxalis* spp.), Stinging Nettle (*Urtica dioica*), Carpetgrass (*Axonopus offinis*), and Pigweed (*Amaranthus* spp.).



Apply to dry foliage only with a properly calibrated granular applicator at the recommended rate in early spring before weed seed germination. If rain is not expected shortly after application, irrigation to remove herbicide granules from foliage will increase effectiveness.

For Crabgrass, Goosegrass, and Crowfoot control, apply 200-400 pounds per acre (2 to 4 pounds active ingredient) or 4 1/2 to 9 pounds per 1000 sq. ft. Late applications are not recommended and may not be fully effective.

For Annual Bluegrass control apply 400 pounds/acre (4 pounds active ingredient) or 9 pounds/1000 sq. ft. in early spring or late summer prior to seed germination.

For pigweed, Florida Pusley, Oxalis, Stinging Nettle and Carpetgrass control apply 400 pounds/acre (4 pounds active ingredient) or 9 pounds/1000 sq. ft. of Regal Ronstar Plus I in early spring or late summer prior to weed seed germination.

For St. Augustine grass turf, do not exceed the rate of 300 pounds/acre (3 pounds active ingredient) of Regal Ronstar Plus I.

Discoloration of bermudagrass and St Augustine grass may result from use of this herbicide, but this discoloration is temporary and normally outgrown within 2 to 3 weeks.

Red Fescue and Bentgrass are susceptible to Regal Ronstar Plus I and may be severely damaged. Avoid use of this product on turf containing Red Fescue or Bentgrass except where they are undesirable grasses. Do not apply to newly seeded areas. Seeding into treated areas should be delayed until 4 months after treatment. DO NOT apply to Dichondra or Centipedegrass. Regal Ronstar Plus I should not be used on putting greens or tees because of varying cultural practices used.

#### WOODY ORNAMENTAL SHRUBS, VINES AND TREES

#### APPLICATION

It is impossible to test every species and variety of ornamental or nursery plants. Plant tolerance to Regal Ronstar Plus I has been found to be acceptable in the specified genera and species. Neither the manufacturer nor the seller has determined whether or not Regal Ronstar Plus I can safely be used on plants not specified on this label. The professional user should determine if Regal Ronstar Plus I can be used safely prior to use.

Apply Regal Ronstar Plus I anytime during the year, prior to weed seed germination, for weed control. Regal Ronstar Plus I can be applied to both newly transplanted and established ornamentals. Applications can be made to actively growing or dormant ornamentals. Rainfall or overhead irrigation after application of Regal Ronstar Plus I will improve weed control activity. Regal Ronstar Plus I should not be mixed into the soil. Cultivating or disturbing the soil may reduce the weed control activity of Regal Ronstar Plus I.

Do not apply to wet foliage or under conditions in which granules will collect on leaves.

#### AMOUNT TO USE

Ground application - Apply Regal Ronstar Plus I broadcast to ornamentals at 200 to 400 pounds of product per acre (or 4 1/2 to 9 pounds per 1000 sq. ft.) depending on the weeds to be controlled, as listed below. Remove existing weed growth before application.

Regal Ronstar Plus I at 200 to 400 pounds (2.0 to 4.0 pounds of active ingredient) per acre is effective in controlling annual grasses and broadleaf weeds such as:



## Annual Broadleaf Weeds

Bittercress (*Cardamine* spp.)  
Carpetweed (*Mollugo verticillata*)  
Common Groundsel (*Senecio vulgaris*)  
Common Purslane (*Portulaca oleracea*)  
\*Eveningprimrose (*Oenothera* spp.)  
\*Galinsoga (*Galinsoga* spp.)

Golden Ragwort (*Senecio aureus*)

Lambsquarters (*Chenopodium album*)  
Pennsylvania Smartweed (*Polygonum pennsylvanicum*)  
Petty Spurge (*Euphorbia peplus*)  
Redroot Pigweed (*Amaranthus retroflexus*)  
Speedwell (*Veronica* spp.)  
Spotted Catsear (*Hypochaeris radicata*)  
\*Swinecress (*Coronopus didymus*)  
Yellow Woodsorrel (*Oxalis stricta*)

## Annual Grasses

Annual Bluegrass (*Poa annua*)  
\*Barnyardgrass (*Echinochloa crus-galli*)  
Crabgrass (*Digitaria* spp.)  
Fall Panicum (*Panicum dichotomiflorum*)  
Green Foxtail (*Setaria viridis*)

\*Use 300 to 400 pounds (3.0 to 4.0 pounds of active ingredient) per acre for less susceptible weeds.

Note: For the control of liverwort (*Marchantia* spp.) in California, Goosegrass (*Eleusine indica*) and Prostrate Spurge (*Euphorbia supina*) use 400 pounds (4.0 pounds of active ingredient) per acre.

## CROP TOLERANCE

Regal Ronstar Plus I is recommended for use on a wide variety of container and field grown woody ornamental shrubs, vines and trees. Regal Ronstar Plus I may be used at the recommended rates on the following ornamental species:

## CONTAINER GROWN

### ESTABLISHED

SPECIES	VARIETIES
Agapanthus-	Africanus
Andromeda-	Japanese
Arborvitae-	American, Eastern, Oriental, Aureanana, Globe, Pyramidal, Woodward
Arctostaphylos-	Fred Oelher
Azalea-	Hino Red, Red, Boudoir, Snowball, Karen, Kaempp, Stuartonian, Mollishybrid, Sweetheart Supreme, Salmon Beauty, Caroline Gable, Louise, Stewartstonian, Rosebud
Barberry-	Redleaf, Marshall, Red, Darwinii, Irwinii, Purpleleaf
Boxwood-	Common Japanese
Callistemon-	Bottle-brush
Camellia-	Glen #40 Sasanqua, Colonel Fiery
Ceanothus Cedar-	Atlas, Portoford (Allumii)
Cotoneaster-	Paineyi, Bearberry, Coral Beauty, Greyleaf, Cranberry, Silverleaf, Peking, Bright bead, Dammeri Skolgholm, Microphylla, Lowfast, Glaucohylla
Cypress-	Monterey
Dogwood-	Red Osier
Douglas fir-	Pseudotsugamenziesii
Eucalyptus-	Sideroxylon, Nicholli



VARIETIES

Euonymus-	Greenlane, Microphylla Variegata, Emeraldgaety, Dwarf, Gold Spot, Golden Green, Silver King, Wintercreeper Vegetus, Emerald Cushion, Spreading
Forsythia-	Lynwood Gold
Gardenia-	Amy Yashioka, August Beauty, Mystery
Ginko-	Biloba
Heath	
Heather-	Mrs. Maxwell
Hedera-	English Ivy
Honeysuckle-	Purpleleaf, Purpurea
Holly-	Dwarf Okinowan, Convexa, Rotundifolia, Hetzi, Helleri, Burfordi, English Hellus, Dwarf Yaupon, Nellie R. Stevens, Boxleafed, Green Island, Japanese
Jasmine-	Yellow Star, Star
Juniper-	Barharbor, Wiltoni, Torulosa, Pfitzeriana Compacti, Pfitzeriana Aurea, Torulosa Variegata, Pfitzeriana Glauca, Gulf Stream, Tam, Armstrongii, Shore, Andora, San Jose, Blue Haven, Stricta, Jade River, Broadmoor, Meyeri, Rocket, Plumosa, Royal Beauty, Praecox, Greek, Apiculata Blackburn, Plumosa Compacta, Procumbens, Blue Pfitzer
Justica-	Brandegeana
Leucothoe-	Catesbaei, Axillaris
Myrtle-	Compacta Noellii
Magnolia-	Dr. Merrilli, Samuel Somers, Grandiflora
Mahonia-	Oregon Grape-Holly
Osmanthus-	Fortunes
Periwinkle-	Vinca Minor
Photinia-	Frazerii
Pine-	Slash, Japanese Black, Montana, Scotch, Digger, Shore, Thumbergii
Pittosporum-	Variegated Japanese
Podocarpus-	Macrophylla
Privet-	Japanese, Waxleaf, Glossy, Vicary, Golden Vicary, Curly Leaf
Pyracantha-	Victory, Scarlet Firethorn, Wyatti, Graberri
Quercus	
Raphiolepis-	India Hawthorn
Rhododendron-	Cunningham, Blue Diamond, Sncw, Christmas, Chionoides, 'PJM', Dr. Rutgers, Coral Bells, President Clay
Rose-	Summer Snow, Bigleaf Winter Creeper, Charlotte Armstrong
Star Jasmine-	Yellow Star Jasmine
Syzgium-	Paniculatum
Viburnum-	Sandankwa, Laurestinus, David
Xylosma-	Congestum

NEWLY TRANSPLANTED

SPECIES

VARIETIES

Andromeda-	Japanese
Arborvitae-	Globe, Woodward
Azalea-	Hino Red, Louise, Rosebud, Stewartstonian
Barberry-	Marshall Red, Darwinii, Irwinii, Purpleleaf
Cedar-	Portoford (Allumii)
Cotoneaster-	Cranberry, Peking, Coral Beauty, Bright Bead, Paineyi, Dammeri Skolgholm, Microphylla, Glaucohylla
Cypress-	Monterey



SPECIES

Dogwood-  
Euonymus-  
Forsythia-  
Holly-  
Juniper-  
  
Leucothoe-  
Magnolia-  
Mahonia-  
Pine-  
Privet-  
Pyracantha-  
Rhododendron-  
Rose-

VARIETIES

Red Osier  
Greenlane, Emerald Cushion, Spreading  
Lynwood Gold  
Rotundifolia, Helli, English, Japanese  
Plumosa, Plumosa Compacta, Old Gold, Pfitzeriana  
Aurea, Torulosa, Armstrongii, Tam, Wiltoni, Procumbens  
Axillaris  
Dr. Merrilli  
Oregon Grape-Holly  
Slash  
Japanese, Waxleaf, Glossy  
Graberii  
Snow, Blue Diamond, Chionoides, 'PJM', Dr. Rutgers  
Summer Snow, Bigleaf Winter Creeper, Charlotte  
Armstrong

FIELD GROWN

ESTABLISHED  
SPECIES

Arborvitae-  
Ash-  
Azalea-  
Barberry-  
Birch-  
Camellia-  
  
Cotoneaster-  
Crabapple-  
Dogwood-  
Euonymus-  
Forsythia-  
Holly-  
Honeysuckle-  
Juniper-  
  
Lilac-  
Maple-  
Oak-  
Periwinkle-  
Pine-  
  
Pittosporum-  
Privet-  
Rhododendron-  
Rose-  
Russian Olive  
Spruce-  
Taxus-  
Tsuga-  
Viburnum-  
Xylosma-  
Ground covers  
Carpobrotus-  
Osteo-  
Spermum  
Sedum-  
Algerian Ivy  
Vinca Major  
English Ivy  
Pachysandra-  
Ajuga-  
Euonymus-

VARIETIES

Pyramidal  
Green  
Hinodi geri  
Red, Mentor  
Clump, Paper  
Tiffany, Marie Bracey, Elizabeth Dowd, Tom Knudsen,  
Crimson Robe, R D Wheeler  
Lowfast, Skolgholm  
Flowering, Toringo  
Redstemmed, Red, Flowering  
Burning Bush, Dwarf Burning Bush, Jewell  
Showy Border, Lynngold, Lynwood Gold, Goldenbell  
Boxleafed, Green Island, Japanese  
Zabeli  
Plumosa, Mint Julip, Arcardia, Variegata, Plumosa  
Compacta, Andora, Wiltoni, Hetzi  
Persian, Dwarf Korean  
Amur  
Red  
Vinca Minor  
Austrian, Scotch, Norway, Stone Japanese, Black,  
Loblolly, Slash, Eastern White  
Undulatum  
California, Japanese  
Rosebud  
Texas Centennial, Sutters Gold, Show Girl  
  
Black Hills, Norway, Serbian  
Taunton Spreading Yew, Hicks  
Canadian Hemlock  
European Cranberry Bush  
  
Edule  
  
Album  
  
Terminalis  
Reptans  
Fortune Radicans





NEWLY TRANSPLANTED

SPECIES	VARIETIES
Camellia-	Tiffany, Marie Bracey, Elizabeth Dowd, R.D. Wheeler, Tom Knudsen, Crimson Robe
Dogwood-	Redstemmed, Red, Flowering
Forsythia-	Showy Border, Lynwood Gold, Goldenbell
Hedera-	English Ivy
Holly-	Green Island, Japanese
Juniper-	Plumosa, Andora, Wiltoni, Hetzi
Oak-	Red

SPECIES	VARIETIES
Periwinkle-	Vinca Minor
Pine-	White Austrian, Eastern White
Privet-	California, Japanese
Rhododendron-	Rosebud
Russian Olive	
Spruce-	Black Hills, Norway, Serbian
Taxus-	Hicks
Tsugs-	Canadian Hemlock

ADDITIONAL APPLICATIONS

For continued weed control, additional applications of Regal Ronstar Plus I may be made 60 to 120 days after the previous application in the following situations:

2 REPEAT TREATMENTS

CONTAINER GROWN ESTABLISHED		CONTAINER GROWN NEWLY TRANSPLANTED		FIELD GROWN ESTABLISHED AND NEWLY TRANSPLANTED	
SPECIES	VARIETIES	SPECIES	VARIETIES	SPECIES	VARIETIES
Abelia-	Grandiflora	Common Boxwood		Holly-	Nellie R. Stevens,
Common Boxwood		English Ivy		Dwarf Burford,	Burford
English Ivy		Juniper-	Tam		
Holly-	Helleri	Pine-	Slash		
Juniper-	Tam	Rhodo-	Obtusa, Kurume		
Pine-	Slash	dendron	Formosa		
Rhodo-	Obtusa Kurume				
dendron	Formosa				
	Kurume Snow				



3 REPEAT TREATMENTS  
CONTAINER GROWN  
ESTABLISHED

SPECIES	VARIETIES
Abelia-	Grandiflora
Holly-	Helleri, Rotundifolia
Rhododendron-	Kurume Formosa, Kurume Snow

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GREENHOUSE GROWN

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ESTABLISHED SPECIES	VARIETIES
Rose-	Sonia, Forever Yours, Coed, Golden Wave

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FOREST NURSERIES

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SEEDLINGS - At least 4 weeks old.

SPECIES	VARIETIES
Pine-	Loblolly, Slash, Eastern White

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NOTICE TO BUYER

Seller warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for purposes stated on such label only when used in accordance with directions under normal use conditions. This warranty does not extend to use of this product contrary to label use directions, or under conditions not reasonably foreseeable to seller; buyer assumes all risk of any such use. Seller makes no other warranties; expressed or implied.

REGAL CHEMICAL COMPANY

Alpharetta, Georgia