

REGAL RONSTAR® AC

Preemergent Herbicide for Turf and Ornamentals

NOT FOR USE ON HOME LAWNS.

FOR SALE FOR USE AND STORAGE BY COMMERCIAL NURSERY, TURF AND LANDSCAPE PERSONNEL ONLY.

Selective, preemergent herbicide for the control of annual grasses and broadleaf weeds in turf and woody ornamental shrubs, vines and trees.

ACTIVE INGREDIENTS:

Oxadiazon [2-tert-butyl-4-(2, 4-dichloro-5-isopropoxyphenyl)-delta-1, 3, 4-oxadiazolin-5-one]..... 2.0%

INERT INGREDIENTS:.....98.0%

TOTAL..... 100.00%

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.)

In case of medical, environmental, or transportation emergencies or injuries call 1-800-621-5208.

For product information call toll-free: 1-800-621-5208

EPA Reg. No. 48234-2

EPA Est No. 48234-GA-1



Regal Chemical Company // Alpharetta, GA 30004

STAEMENT OF PRACTCAL TREATMENT	
IF ON SKIN:	Wash with plenty of soap and water. Get medical attention.
IF IN EYES:	Flush eyes with plenty of water. Call a physician if irritation persists.
IF INHALED:	Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-621-5208 for emergency medical treatment.	

PRECAUTIONARY STATEMENTS WARNING
HAZARDS TO HUMANS AND DOMESTIC ANIMALS Causes skin and eye irritation. Harmful if inhaled. Do not get on skin or on clothing. Avoid contact with eyes. Avoid breathing dust. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.
PERSONAL PROTECTIVE EQUIPMENT (PPE) Applicators and other handlers must wear coveralls over short-sleeved shirt and short pants, waterproof gloves, a chemical resistant apron when cleaning equipment, protective eye wear, chemical resistant headgear for overhead exposure and chemical resistant footwear plus socks. Follow manufacturers 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 pesticides get inside. Then wash body thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS
This product is toxic to fish. DO NOT contaminate water by cleaning of equipment or disposal of wastes. Regal Ronstar ACI® should not be used in areas where irrigation or rainfall results in direct or indirect (via ditches and canals) contamination of surface waters through dissolved runoff or erosion of soil particles to which oxidiazon is absorbed. DO NOT use in areas where endangered Hawaiian Goose or nene (<i>Branta sandvicensis</i>), Hawaiian Duck (<i>Anas wyvilliana</i>), Hawaiian Stilt (<i>Himantopus mexicanus knudseni</i>), and Hawaiian Moorhen (<i>Gallinula chloropus sandvicensis</i>) may feed.

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 to 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 this label about personal protective equipment (PPE) and restricted-entry intervals. 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 entry into treated areas during the restricted entry interval (REI) 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 and chemical-resistant headgear for overhead exposure.

DO NOT apply Regal Ronstar AC through any type of irrigation system.

STORAGE AND DISPOSAL
Storage: DO NOT contaminate water; food 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 bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

GENERAL INFORMATION

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

Apply Regal Ronstar AC with a properly calibrated granular applicator that will apply the granules uniformly (uniform application is essential for satisfactory weed control). Calibrate the applicator prior to use, according to the manufacturer's directions, and check frequently during the application to be certain that the equipment is working properly.

Do not allow domestic animals to graze treated areas. Avoid contamination of water intended for irrigation and domestic use.

TURF

For use in established perennial Bluegrass, Bentgrass, Bermudagrass, Buffalograss, Perennial Ryegrass, St. Augustinegrass, Seashore Paspalum, Tall Fescue and Zoysia turf, such as, fairways, parks, golf courses and lawns. Rake turf area free of leaves, mowing if necessary, so granules reach soil surface. Measure area to be treated and uniformly apply required amount, using a fertilizer spreader. Cross-treating with one-half required amount in each direction will give best results. Do not apply to wet turf. If rain is not expected shortly after application, irrigating turf thoroughly will increase effectiveness.

PREEMERGENT WEED CONTROL			
Weeds Controlled	Amount of Regal Ronstar ACI		Directions
	per acre	per 1000 sq. ft	
Crabgrass (<i>Digitaria</i> spp.) Goosegrass (<i>Eleusine indica</i>) Field Sandbur (<i>Cenchrus incertus</i>) Annual Sedge (<i>Cyperus compressus</i>)	100-200 lbs.	2-1/4-4-1/2 lbs.	Apply late winter or early spring prior to seed germination. Application made after March or April may not be fully effective.
Annual Bluegrass (<i>Poa Annua</i> spp.) (See note below)	200 lbs.	4-1/2 lbs.	Apply in late summer to early fall prior to seed germination.
Virginia Buttonweed (<i>Diodia viriniana</i>) Pigweed (<i>Amaranthus</i> spp.) Florida Pusley (<i>Richardia scabra</i>) Oxalis (<i>Oxalis</i> spp.) Stinging Nettle (<i>Urtica dioica</i>) Carpetgrass (<i>Axonopus offinis</i>)	200 lbs.	4-1/2 lbs.	Apply in early spring prior to seed germination.

FALL APPLICATION FOR SPRING WEED CONTROL IN COOL SEASON TURF

Weeds Controlled	Amount of Regal Ronstar ACI		Directions
	per acre	per 1000 sq. ft	
Crabgrass, Goosegrass and other annual weeds	150-200 lbs.	3-3/8-4-1/2 lbs.	Make application in the fall after turf has become dormant. For late, fall applications, seeding into treated areas should be delayed until 4 months after green up.

ANNUAL BLUEGRASS CONTROL IN BERMUDAGRASS FAIRWAYS OVERSEEDED WITH PERENNIAL RYEGRASS ONLY

Weeds Controlled	Amount of Regal Ronstar ACI		Directions
	per acre	per 1000 sq. ft	
Annual Bluegrass (<i>Poa annua</i> spp.) other annual weeds	100 lbs.	2-1/4 lbs.	Apply in late summer to early fall prior to <i>Poa annua</i> spp. seed germination. Any <i>Poa annua</i> spp. established when this product is applied will not be controlled. Regal Ronstar ACI will only control the <i>Poa annua</i> spp. that is established from seed every year. Regal Ronstar AC should be applied no closer than 60 days prior to overseeding. NOTE: Do not use where <i>Poa trivialis</i> is present in overseed mix.

NOTE: In many areas, annual bluegrass exists as at least two biotypes or subspecies of *Poa annua*. The true annual biotype is *Poa annua* spp. *annua* which germinates every year from seed, while the biotype that behaves like a perennial is *Poa annua* spp. *reptans*. This perennial biotype can survive

ANNUAL WEED CONTROL DURING BERMUDAGRASS, ZOYSIAGRASS, SEASHORE PASPALUM AND TROPIC LALO (PASPALUM HIERONYMII) ESTABLISHMENT FROM SPRIGS

Weeds Controlled	Amount of Regal Ronstar ACI		Directions
	per acre	per 1000 sq. ft	
Crabgrass, Goosegrass, Annual Sedge and other annual weeds	100–150 lbs.	2-1/4–3-3/8 lbs.	For Bermudagrass, make application immediately prior to or immediately after sprigging. For Seashore Paspalum, make application 10 to 14 days after sprigging. Applications made close to the time of sprigging may cause objectionable Seashore Paspalum injury. Disturbance of the soil surface after Regal Ronstar ACI application may disrupt the herbicide barrier and reduce effectiveness. Irrigate immediately after application for best results.

For St. Augustinegrass and Bentgrass turf, do not exceed the rate of 300 pounds per acre (3 pounds active ingredient) of Regal Ronstar ACI.

DO NOT apply to Bentgrass turf mowed at less than 3/8 inch.

Regal Ronstar ACI may cause discoloration of Bentgrass, Bermudagrass and St. Augustinegrass. This discoloration is temporary and normally outgrown within 2 to 3 weeks.

Avoid contact with flowers and shrubs except as recommended elsewhere on this label. Do not apply Regal Ronstar ACI to newly seeded areas. Seeding into treated areas should be delayed until 4 months after treatment except as noted above. Do not apply to Dichondra or Centipedegrass. Regal Ronstar AC should not be used on putting greens or tees because of the varying cultural practices used.

When making applications to Tropic Lalo, applications must be made 0-12 days after sprigging. **DO NOT** use in areas where endangered Hawaiian Goose or nene (*Branta sandvicensis*), Hawaiian Duck (*Anas wyvilliana*), Hawaiian Stilt (*Himantopus mexicanus knudseni*), and Hawaiian Moorhen (*Gallinula chloropus sandvicensis*) may feed. may feed.

WOODY ORNAMENTAL SHRUBS, VINES, TREES AND CONIFER NURSERY APPLICATION

It is impossible to test every species and variety of ornamental or nursery plants. Plant tolerance to Regal Ronstar AC 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 AC can safely be used on plants not specified on this label. The professional user should determine if Regal Ronstar AC can be used safely prior to use.

Apply Regal Ronstar AC anytime during the year; prior to weed seed germination, for weed control. Regal Ronstar AC can be applied to both newly transplanted and established ornamentals. Application can be made to actively growing or dormant ornamentals. Rainfall or overhead irrigation after application of Regal Ronstar AC will improve weed control activity. Regal Ronstar AC should not be mixed into the soil. Cultivating or disturbing the soil may reduce the weed control activity of Regal Ronstar AC. Do not apply to wet foliage or under conditions in which granules will collect on leaves. Do not apply in greenhouses as plant injury may result from co-distillation of Regal Ronstar AC active ingredient onto leaf surfaces in condensation.

Amount To Use

Ground Application — Apply Regal Ronstar AC broadcast to ornamentals at 200 to 400 pounds of product per acre (or 4 1/2 to 9 pounds per 1,000 sq. ft.) depending on the weeds to be controlled, as listed on the following page. Remove existing weed growth before application.

ANNUAL BROADLEAF WEEDS

Bittercress	Fiddleneck	Niruri	Sow Thistle
Bristly Oxtongue	Fireweed	Pennsylvania Smartweed	Speedwell
Carpeweed	*Galinsoga	Petty Spurge	Spiny Amaranth
Cheeseweed	Garden Spurge	**Prostrate Spurge	Spotted Catsear
Common Groundsel	Golden Ragwort	Redroot Pigweed	*Swinecress
Common Purslane	Lambsquarters	Shepherdspurse	Yellow Woodsorrel (Oxalis)
*Evening Primrose	** Liverwort	Sensitive Plant	

ANNUAL GRASSES

Annual Bluegrass	Bristly Foxtail	Green Foxtail	**Panama
Annual Sedge	Crabgrass	Goosegrass	Paspalum
*Barryardgrass	Fall Panicum	**Jungle Ricegrass	Ripgut Bromegrass
			Wild Oats

CROP TOLERANCE

Regal Ronstar AC is recommended for use on a wide variety of ornamental species and ground covers in container, field grown and landscape planting situations. Regal Ronstar AC may be used at the recommended rates on the following species.

ESTABLISHED ORNAMENTALS AND GROUND COVERS

Abutilon	Dogwood, Kousa	Ochana
Acacia	Douglas fir	Ohai
Agapanthus	Elm	Oleander
Allamanda, Common	Escallonia	Orthosiphon
Andromeda	Eucalyptus	Osmanthus
Aralia	Euryops, Gray Leaved	Pachysandra
Arborvitae	Euonymus, Spreading	Palm, Bamboo
Ash, Green	Euonymus,	Palm, Fishtail
Azalea	Wintercreeper	Palm, Licuala
Baby's Breath	Falsecypress, Hinoki	Palm, Macarthur
Bald Cypress	Falsecypress, Japanese	Palm, Manac
Bamboo, Feathery	Flowering Quince	Palm, Manila
Banyan, Weeping	Forsythia	Palm, Parlor
Barberry	Gardenia	Palm, Rattan
Beafsteak plant	Gazania, Trailing	Palm, Sealing Wax
Bearberry	Ginko	Palm, Sugar
Beech, European	Gladiolas	Paperbark Tree
Birch, Paper	Golden Raintree	Peony
Blanket, Flower	Heath, Spring	Periwinkle, Common
Blazing, Star	Heather, Scotch	Photinia, Frasier's
Boxwood, Japanese	Heliotropium	Poinciana
Boxwood, Common	Hemlock, Canada	Pine
Bougainvillea	Hibiscus	Pittosporum, Japanese
Brassaia, Dwarf Buddleia	Honeysuckle	Plum, Natal
Bugleflower	Holly	Podocarpus, Yew
Callistemon	Ice Plant	Pomegranite*
Camellia, Sasanqua	Ilma	Poplar
Candytuft	Ivy, Algerian	Potentilla
Carissa	Ivy, English	Privet
Carnation	Jasmine, Orange	Protea species
Ceanothus	Jasmine, Primrose	Pyracantha
Cedar, Red	Jasmine, Star	Raphiolepis
Cedar, Atlas	Jasmine, Showy	Redwood, Dawn
Cistus	Juniper	Rhododendron
Citrus, Ornamental*:	Justica	Rose
Grapefruit	Kwanzan Cherry	Russian Olive
Lemon	Lamb's Ear	Sargent Cherry
Lime	Lantana, Trailing	Scotch Broom
Mandarin	Lapalapa	Sedum
Tangelo	Larch, European	Serviceberry, Saskatoon*
Tangerine	Laurel, English	Spruce
Temple	Leopards - Bane	Statice
Cuban Shaddock	Leucothoe, Coast	St. Johnswort, Golden
Valencia	Leucothoe, Drooping	St. Johnswort,
Washington Navel	Lily of the Nile	Gokdencup
Cleyera	Lilac	Strawberry Tree
Coreopsis	Littleleaf Linden	Sumac, Staghorn
Coromandel	Loquat*	Sweet William
Cotoneaster	Magnolia	Syzygium
Crabapple*	Mahonia, Grape Holly	Trailing African Daisy
Crapemyrtle	Maple	Viburnum
Chrysanthemum	Metallic Plant	Wedelia
Cypress	Mexican Orange	Wisteria, Chinese
Cypress, Leyland	Mock Orange	Witchazel, Common
Dahlia	Money Tree	Woadwaxen, Common
Daphne, Fragrant	Murraea	Wooly Thyme
Deutzia, Slender	Myoporum	Xylosma
Dieffenbachia	Myrtle	Yew
Dogwood, Common	Nandina	
Dogwood, Redosier	Oak	

NEWLY TRANSPLANTED ORNAMENTALS AND GROUND COVERS

Blanket Flower	Forsythia	Juniper	Privet
Brassaia, Dwarf	Gazania, Trailing	Leopards - Bane	Protea Species
Camellia	Hackberry	Metallic Plant	Spruce
Carnation	Ivy, Algerian	Oak	Trailing African Daisy
Cedar, Red	Ivy, English	Periwinkle, Common	Wedelia
Coromandel	Hemlock, Canada	Periwinkle, Large	Wisteria, Chinese
Dogwood, Flowering	Holly	Pine	Yew
Elm	Ice Plant	Poplar	

*For use only on plants that will not bear edible fruit within one year of Regal Ronstar AC herbicide application.

FOREST NURSERY APPLICATION

Seedlings of the following Species can be treated with Regal Ronstar AC herbicide when at least 4 weeks old: Pine – Loblolly, Eastern White, Slash

SENSITIVE VARIETIES

Under certain growing conditions, the plant varieties listed below may be sensitive to Regal Ronstar AC herbicide. Growers should evaluate usage on a small scale prior to large scale applications.

PLANT SPECIES	VARIETIES
Andromeda	Snowdrift, Temple Bell
Azalea	Pink Champagne, Hershey, (Rhododendron spp), Leuchtenfuer, Memoire John Hearrens, Hino-Crimson, White Grandeur, Everest, Girard Roberta
Cotoneaster	Eichholz, Himalayan, Shangri-la (Cotoneaster spp)
Crapemyrtle	Petite Red Imp, Seminole Bush
Heath, Spring	Mediterranean Pink
Hemlock, Canada	Pendula
Hibiscus	Red Heart
Rhododendron	Daphnoides, Nova Zembla, Rhododendron spp), Catawba Album
Spruce, Norway	Pumila
Spruce, White	Densata
Viburnum	Davidii

DO NOT

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 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 warranties; expressed or implied.

®Ronstar is a registered trademark of the Aventis Group