

PRODUCT REFERENCE GUIDE



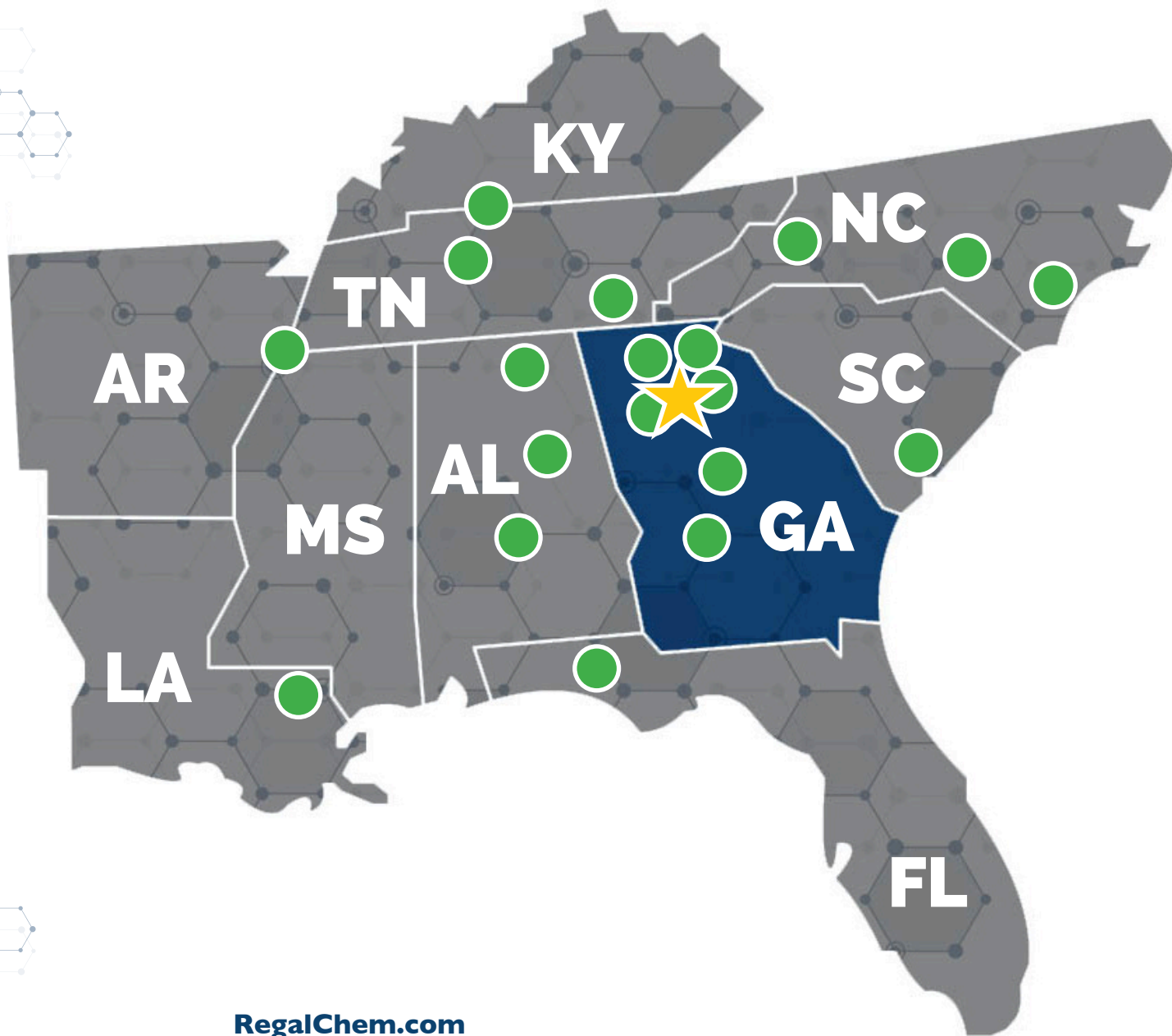
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Welcome to the Regal Product Reference Guide

At Regal you will find everything you need to support your agronomic goals, along with sound agronomic solutions and valuable tips from Regal's TurfGrass Geek and TurfGrass Kid!



PRODUCT CATEGORY

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***Note:** Rate ranges are provided as a general reference. Please consult the label for actual rates prior to use.

Fungicides	Active Ingredient	Product Features	PKG	Rate Range*
Armada® 50 WDG	Trifloxystrobin; Triadimefon	For control of certain foliar, stem and root diseases of most turfgrass, and for control of listed foliar and stem diseases of many ornamentals and non-bearing fruit trees.	2 LB/CT 6 X 2 LB/CS	TURF: 0.6 - 1.5 OZ/M ORNAMENTALS: 3 - 9 OZ/100 GAL H2O
Avelyo	Mefentrifluconazole	Avelyo fungicide is a next-generation DMI fungicide that delivers broad-spectrum control of foliar, crown and root diseases with exceptional plant safety.	2.5 GAL/CT 2 X 2.5 GAL/CS	2.0-10.0 OZ/100 GAL H2O
Banol®	Propamocarb	Fungicide for control of Pythium and Phytophthora.	60 FL OZ/CT 4X60 FL OZ/CS	TURF: 1.3 - 4.0 OZ/M ORNAMENTALS: 2 - 3 OZ/10 GAL H2O
Bayleton® Flo	Triadimefon	For the control of certain diseases on flowers, foliage plants, shrubs, shade trees and turf grass including residential turf, sodfarm turf, golf courses, commercial lawns and grounds, gardens or parks and interior landscapes.	2.5 GAL/CT 2 X 2.5 GAL/CS	TURF: 0.25 - 1.9 OZ/M ORNAMENTALS: SEE LABEL

Fungicides	Active Ingredient	Product Features	PKG	Rate Range*
Chipco® 26019	Iprodione	Delivers fast-acting, long-lasting control of brown patch, dollar spot, as well as other diseases in turf. Provides unsurpassed control of Rhizoctonia, Botrytis, Fusarium, and Alternaria in ornamentals.	2.5 GAL/CT 2 X 2.5 GAL/CS	TURF: 2 - 8 OZ/M ORNAMENTALS: SEE LABEL
Chipco® Signature™	Aluminum Tris	A systemic fungicide used to control Pythium diseases on turfgrass including golf courses, sod farms, sports fields, residential, commercial and other turfgrass areas.	44 LB/CS	4 - 8 OZ/M
Chlorothalonil DF	Chlorothalonil	Contact fungicide for broad spectrum disease control in turf and ornamentals. Excellent management tool against disease resistance to fungicides, and also effective for algae control.	10 LB/CT 2 X 10 LB/CS	5.0 -13.7 LB/AC
Consynt® WDG	Chlorothalonil; Thiophanate-Methyl	Combination of systemic and contact fungicides to provide long lasting broad spectrum disease control for turf, nursery and ornamental use.	5 LB/CT 4 X 5 LB/CS	2 - 8 OZ/M
CuPRO® 5000	Copper Hydroxide	Advanced Copper fungicide/bactericide technology that delivers excellent disease control with all the advantages of a dry flowable: decreased handling, decreased dust exposure, easier packaging, and shortened loading times.	3 LB/CT 8 X 3 LB/CS	0.50 - 3.0 LBS / 100 GAL H2O
Decree®	Fenhexamid	For control of Botrytis in various greenhouse crops, botrytis diseases in ornamentals, forestry conifers and non-bearing fruit trees and vines and for the suppression of powdery mildew in ornamentals.	2.5 LB/CT 4 X 2.5 LB/CS	SEE LABEL
Densicor®	Prothioconazole	Harness the power of streamlined fungicide management with Densicor® — a new DMI fungicide that provides next-level control of dollar spot, brown patch, anthracnose, gray leaf spot, snow mold, and other harmful diseases in one simple solution.	51 FL OZ/CT 8 X 51 OZ/CS	8.5 OZ/AC
Echo® 720	Chlorothalonil	Contact fungicide for broad spectrum disease control in turf and ornamentals. Excellent management tool against disease resistance to fungicides, and also effective for black algae control.	2.5 GAL/CT 2 X 2.5 GAL/CS	2.12 - 5.5 OZ/M
Echo® ZNT & O	Chlorothalonil + Zinc	A flowable fungicide containing the active ingredient chlorothalonil combined with the micronutrient zinc. Echo® Zn is a proven contact fungicide that offers prevention and control of more than 75 diseases.	2.5 GAL/CT 2 X 2.5 GAL/CS	TURF: 3.0 - 8.0 OZ/M; ORNAMENTALS: 32 OZ / 100 GAL H2O
Emerald®	Boscalid	Emerald fungicide works differently than anything else you've seen used to control dollar spot. That means Emerald fungicide can effectively control dollar spot that has developed resistance to other fungicides.	0.49 LB/PACK	5.7 - 8.0 OZ/AC
Encartis™	Boscalid; Chlorothalonil	Encartis fungicide pairs the strength of boscalid (the active ingredient in Emerald® fungicide) and chlorothalonil in the perfect ratio to provide preventive and curative activity on warm- and cool-season turf.	2.5 GAL/CT 2 X 2.5 GAL/CS	3.0 - 4.0 OZ/M
Enclave™	Chlorothalonil; Iprodione; Thiophanate Methyl; Tebuconazole	A broad-spectrum combination of contact and systemic fungicides with multi-site mode of action for control of snow mold, spring, summer and fall turf diseases of non-residential turf and ornamentals.	2.5 GAL/CT 2 X 2.5 GAL/CS	TURF: 3.0 - 8 OZ/M ORNAMENTALS: 32 - 44 OZ / 100 GAL H2O
Exteris® Stressgard®	Fluopyram; Trifloxystrobin	Exteris® Stressgard® is a broad spectrum fungicide with preventative, systemic, and curative properties for the control or suppression of certain turf diseases. Exteris® delivers increased plant health benefits along with improved turf quality.	2.5 GAL/CT 2 X 2.5 GAL/CS	1.5 - 12.6 OZ/M
Fame® + C	Fluoxastrobin; Chlorothalonil	A broad-spectrum fungicide for the control of foliar, stem, and root diseases in turf.	2.5 GAL/CT 2 X 2.5 GAL/CS	1.5 - 5.9 OZ/M

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Fungicides	Active Ingredient	Product Features	PKG	Rate Range*
Fame® G	Fluoxastrobin	A spreadable, competitively priced fluoxastrobin fungicide that offers flexible surface application and excellent uptake and movement within the plant, ensuring fast-acting disease protection.	25 LB/BG	TURF: 50 - 200 LB/AC; ORNAMENTALS: 150 - 200 LB/AC
Fame® SC	Fluoxastrobin	A broad-spectrum fungicide for the control of foliar, stem, and root diseases in turf and ornamentals for commercial production and in landscape areas around residential, municipal and commercial properties, field grown ornamentals and ornamentals in greenhouses, interiorscapes and other enclosed structures.	16 OZ/CT 4 X 16 OZ/CT; 64 OZ/CT 4 X 64 OZ/CS; 2.5 GAL/CT 2 X 2.5 GAL/CS	TURF: 0.18 - 0.36 OZ/M ORNAMENTALS: 1 - 8 OZ / 100 GAL H2O
Fiata® Stressgard®	Mono- and Di-Potassium Salts of Phosphorus Acid	Fiata® Stressgard® provides excellent quality, color and density to turfgrass and boosts plant health defenses. It can be applied at any time for stress management and is compatible with many fungicides in tank-mix or rotation programs.	2.5 GAL/CT 2 X 2.5 GAL/CS	5.0 - 15.0 FL OZ
Flex-Guard	Fluazinam	Broad-spectrum fungicide for use to control diseases of turf grasses on golf courses only.	1 GAL/CT 2 X 1 GAL/CS	0.5 OZ/M
Fosetyl-Al	Aluminum Tris	Systemic mode of action providing long-lasting, broad spectrum preventative control of diseases such as Pythium and Phytophthora in turf, ornamentals, bedding plants, and conifer nurseries.	5.5 LB/CT 4 X 5.5 LB/CS	TURF: 4 - 8 OZ/M ORNAMENTALS: SEE LABEL
Grotto™	Copper Octanoate	A broad spectrum OMRI listed copper fungicide/bactericide that provides effective prevention and control of key diseases. For use on greenhouse ornamentals, vegetables, nurseries and turf.	1 GAL/CT 4 X 1 GAL/CS	ORNAMENTALS: 0.5 - 2 GAL/AC IN 30-100 GAL H2O
Honor®	Pyraclostrobin; Boscalid	This pre-mix provides two modes of action and delivers unsurpassed control of the top diseases that superintendents battle such as dollar spot, fairy ring, anthracnose, patch diseases (brown, take-all, and summer), leaf spots and many others.	3 LB/CT 6 X 3 LB/CS	0.55 - 1.1 OZ/M
Insignia® SC	Pyraclostrobin	Insignia SC Intrinsic brand fungicide offers long-lasting, broad-spectrum control of turfgrass diseases for up to 28 days.	30.5 OZ/CT 4 X 30.5 OZ/CS; 2.5 GAL/CT 2 X 2.5 GAL/CS	0.4 -0.7 OZ/M
Interface® Stressgard®	Iprodione; Trifloxystrobin	A fungicide for the enhancement of greener and more dense turfgrass and for the protection against stress and for the prevention and control of certain diseases of turfgrass.	2.5 GAL/CT 2 X 2.5 GAL/CS	2.0 - 7.0 OZ/M
Kabuto®	Isofetamid	Kabuto® Fungicide SC is a fungicide with preventative, systemic and curative properties for the control of dollar spot and spring dead spot on turfgrasses.	1 GAL/CT 4 X 1 GAL/CS	0.4 - 3.2 OZ/M
Kalida™	Fluindapyr; Flutriafol	Kalida™ Fungicide combines the active ingredients fluindapyr (a novel SDHI) and flutriafol (next-generation DMI) into a powerful duo. With proven turf safety and dual modes of action, Kalida Fungicide can tackle Bipolaris Leaf Spot, Take-All Root Rot, Large Patch and other labeled diseases in a variety of warm-season turfgrasses and Anthracnose, Fairy Ring, Dollar Spot, Brown Patch and other labeled diseases in cool-season turfgrasses.	64 OZ/CT 4 X 64 OZ/CS	11.5 - 17.3 OZ/AC

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Fungicides	Active Ingredient	Product Features	PKG	Rate Range*
Karma™	Propamocarb Hydrochloride	Systemic fungicide that prevents and cures many Pythium diseases, including damping-off, cottony blight, grease spot and root rot.	1 GAL/CT 2 X 1 GAL/CS	TURF: 1.3 - 4 OZ/M ORNAMENTALS: 2 - 3 OZ/ 10 Gal H2O
Lexicon®	Fluxapyroxad; Pyraclostrobin	When failure is not an option, trust Lexicon Intrinsic brand fungicide—the cornerstone of your healthy fungicide program. Lexicon Intrinsic brand fungicide is the most effective, broadest spectrum turf fungicide and provides the ultimate protection and plant health for your turf.	21 OZ/CT 4 X 21 OZ/CS	TURF: 5 - 14 OZ/M ORNAMENTALS: 0.8 - 1.6 QT / 100 GAL H2O
Manzate® Max T&O	Mancozeb	Manzate® T&O Fungicide provides multi-site, broad-spectrum disease control for superior control of key diseases in turfgrass, sod farms, and ornamentals.	2.5 GAL/CT 2 X 2.5 GAL/CS	TURF: 5 - 14 OZ/M ORNAMENTALS: 0.8 - 1.6 QT / 100 GAL H2O
Manzate® Prostick T&O	Mancozeb	Manzate® T&O Fungicide provides multi-site, broad-spectrum disease control for superior control of key diseases in turfgrass, sod farms, and ornamentals.	6 LB/CT 8 X 6 LB/CS	TURF: 3 - 8 OZ/M ORNAMENTALS: 1 - 2 LBS / 100 GAL H2O
Maxtima®	Mefentrifluconazole	Maxtima fungicide is a cutting-edge new DMI that can safely and affordably be sprayed at any temperature, on any turf variety. It's cost-effective for fairways and can be used anywhere on your course – on any turf – to help ensure disease-free playing conditions all year long.	26 OZ/CT 4 X 26 OZ/CS; 2.5 GAL/CT 2 X 2.5 GAL/CS	0.2 - 0.8 OZ/M
Mefenoxam 2 AQ	Mefenoxam	Systemic fungicide for use on turfgrass and ornamentals effective control of Pythium blight, Phytophthora root rot, yellow tuft, downy mildew and damping off.	1 GAL/CT 2 X 1 GL/CS	0.49 - 0.98 OZ/M
Mirage® Stressgard®	Tebuconazole	A broad-spectrum fungicide targeting key diseases for the enhancement of greener and more dense turfgrass on golf courses.	2.5 GAL/CT 2 X 2.5 GAL/CS	1 - 2 OZ/M
Navicon®	Mefentrifluconazole; Pyraclostrobin	Powered by Revysol® active ingredient, Navicon is a groundbreaking new broad-spectrum DMI combined with the plant health benefits of Intrinsic brand fungicides to provide turf-safe, highly effective control of some of the toughest diseases.	37 OZ/CT 4 X 37 OZ/CS; 2.5 GAL/CT 2X2.5 GAL/CS	0.7 - 0.85 OZ/M
Obtego®	Trichoderma asperellum; Trichoderma gamsii	A ORMI listed fungicide and plant symbiont serves as a multi-functional tool for growers by protecting the plant from damaging soil-borne pathogens and enhancing root growth.	1 LB/CT 12 X 1 LB/CS; 5 LB/CT 4 X 5 LB/CS	SEE LABEL
Okestra®	Fluxapyroxad; Pyraclostrobin	Used mid-production, Orkestra Intrinsic brand fungicide provides fast, long-acting control of foliar and soilborne diseases in nursery and greenhouse operations.	16 OZ/CT 4 X 16 OZ/CS; 80 OZ/CT 4 X 80 OZ/CS	4.0 - 10.0 OZ/100 GAL H2O
Pageant®	Pyraclostrobin; Boscalid	Pageant® Intrinsic™ brand fungicide is a broad-spectrum fungicide combining two fast-acting active ingredients, boscalid and pyraclostrobin, into one product that offers more control on more diseases than any other currently registered fungicide for nurseries and landscapes.	1 LB/CT 4 X 1 LB/CS; 12 LB/CT 4 X 12 LB/CS	4.0 - 18 OZ / 100 GAL H2O

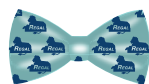
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Fungicides	Active Ingredient	Product Features	PKG	Rate Range*
Pedigree SC	Flutolanil	Pedigree SC is a liquid flowable fungicide containing the active ingredient flutolanil. This liquid formulation improves ease of use over granular formulations, while offering systemic disease control of many turfgrass pathogens.	2.5 GAL/CT 2 X 2.5 GAL/CS	2.2 - 6.6 OZ/M
Pendant SC	Fludioxonil	Pendant SC is powered by the active ingredient, fludioxonil. This fungicide delivers reliable, broad-spectrum control of several key turf diseases including brown patch, anthracnose, summer patch and many more.	1 GAL/CT 2 X 1 GAL/CS	0.75-2.0 OZ/M
Pillar® SC	Pyraclostrobin; Triticonazole	Introducing best-in-class turf science formulated for lawn care. Pillar SC Intrinsic brand fungicide is a fast-acting, dual-active liquid formulation that delivers broad-spectrum control of up to 26 cool- and warm-season turf diseases, including brown patch, dollar spot, leaf spots and large patch on all turf types with one easy use rate.	43.5 OZ/CT 4 X 43.5 OZ/CS	1.0 OZ/M
Propi-Star 41% EC	Propiconazole	A concentrated formulation of propiconazole that provides broad-spectrum, disease control of plant, turf and ornamental diseases.	1 GAL/CT 4 X 1 GAL/CS	TURF: 8.0 - 63 OZ/AC; ORNAMENTALS: 0.75 - 8.7 OZ / 100 GAL H2O
Protégé®	Azoxystrobin + Difenoconazole	A fast-acting fungicide that utilizes the combination of azoxystrobin and difenoconazole to bring disease control and improve plant performance to golf course turf. Highly effective on turf diseases such as dollar spot, anthracnose, bermudagrass decline, and more.	1 GAL/CT 2 X 1 GAL/CS	13.1 - 31.6 OZ/AC
Rayora™	Flutriafol	Rayora™ contains flutriafol, a breakthrough active ingredient from FMC, is a next generation DMI fungicide that provides superior dollar spot control with proven turf safety and no growth regulating effects.	2.5 GAL/CT 2 X 2.5 GAL/CS	0.7 - 1.4 OZ/M
Resyst®	Mono- and Di-Potassium Salts of Phosphorus Acid	Systemic fungicide for the effective control of various plant diseases that includes downy mildew, Phytophthora and Pythium in ornamentals, landscapes, nurseries and bedding plants, Phytophthora in conifers and Pythium in turf.	2.5 GAL/CT 2 X 2.5 GAL/CS	5 - 10 OZ/M
Segway®	Cyazofamid	Delivers consistent and rapid control of Pythium root dysfunction, Pythium blight, and Pythium damping-off. The active ingredient of Segway®, cyazofamid, has a unique mode of action that preventatively inhibits all stages of Pythium development.	39.2 FL OZ/CT 12 X 39.2 FL OZ/CS	TURF: 0.45 - 0.9 OZ/M ORNAMENTALS: 1.5 - 6 OZ / 100 GAL H2O
Segway® O	Cyazofamid	Greenhouse and Nursery fungicide that is a flowable suspension concentrate formulation that controls pythium, crown and root, and aerial phytophthora, and downy mildews on ornamental plants grown in commercial greenhouses and nurseries.	16 FL OZ/CT 8 X 16 FL OZ/CS	1.5 - 6 OZ / 100 GAL H2O
Signature® Xtra Stressgard®	Aluminum Tris	A plant health promoting systemic fungicide that alleviates stress from both abiotic and biotic sources.	5.5 LB/CT 4 X 5.5 LB/CS	2 - 6 OZ/M
Strobe® 2L	Azoxystrobin	Strobe® 2L is a broad spectrum preventative fungicide with systemic and curative properties that is used for the control of many plant diseases.	1 GAL/CT 2 X 1 GAL/CS	0.38 - .77 OZ/M
Strobe® Pro SC	Azoxystrobin; Propiconazole	Broad-spectrum combination of systemic fungicides for control of many important turfgrass diseases.	1 GAL/CT 2 X 1 GAL/CS	0.75 - 5.25 OZ/M
Systemc 1998® FL	Thiophanate-Methyl	Broad spectrum systemic turf and ornamental fungicide.	1 GAL/CT 4 X 1 GAL/CS	1.0 - 5.35 OZ/M

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Fungicides	Active Ingredient	Product Features	PKG	Rate Range*
Systec 1998® WDG	Thiophanate-Methyl	Broad spectrum systemic turf and ornamental fungicide.	5 LBS/CT 2 X 5 LBS/CS	0.67 - 3.53 OZ/M
Tartan® Stressgard®	Trifloxystrobin; Triadimefon	A fungicide for the enhancement of greener and more dense turfgrass and for the control of certain foliar, stem, and root diseases of turfgrass including golf courses, sod farms, and sports fields.	2.5 GAL/CT 2 X 2.5 GAL/CS	1.0 - 2.0 OZ/M
Tebuconazole	Tebuconazole	Excellent preventative and curative control on a broad-spectrum of disease pathogens. Rapid uptake in turf provides up to three weeks of residual disease control.	1 GAL/CT 4 X 1 GAL/CS	TURF: 0.6 OZ/M ORNAMENTALS: 4 - 10 OZ / 100 GAL H2O/AC
Tekken®	Tebuconazole; Isfetamid	Broad spectrum fungicide with two modes of action to deliver control of 21 diseases including Anthracnose, dollar spot, and brown patch.	2.5 GAL/CT 2 X 2.5 GAL/CT	3 OZ/M
Terrazole® L	Etridiazole	An effective soil fungicide for prevention and control of damping-off, root rot and stem diseases caused by Pythium and Phytophthora species in turf and ornamentals and golf course tees and greens.	1 QT/CT 8 X 1 QT/CS	TURF: 1.5 - 3 OZ/M ORNAMENTALS: 2.5 - 7 OZ / 100 GAL H2O
Union™	Cyazofamid; Azoxystrobin	Combination of two powerful active ingredients to deliver exceptional control of most common diseases including Anthracnose, Brown Patch, and Pythium Blight, Damping Off, Root Dysfunction, and Root Rot.	2.5 GAL/CT 2 X 2.5 GAL/CS	2.9 - 5.75 OZ/M
Xzemplar®	Fluxapyroxad	Xzemplar fungicide provides excellent curative and preventive control of dollar spot, brown patch, and other key turfgrass diseases.	11.4 OZ/CT 4 X 11.4 OZ/CS; 11.4 OZ/CT 2 X 11.4 OZ/CS	0.16 -0.26 OZ/M
Zerotol®	Hydrogen Peroxide; Peroxyacetic Acid	Fungicide, Bactericide, and Algacide treatment for the prevention and suppression/control of horticultural diseases in greenhouses, garden centers, landscapes and nurseries.	2.5 GAL/CT	SEE LABEL

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TurfGrass Geek Tip:

“Tank-mixing fungicides that are prone to fungal disease resistance with broad-spectrum fungicides like Chlorothalonil, Manzate, or Flex-Guard will help stave off fungal disease resistance and keep your fungicide arsenal full of options for years to come.”

Key Soil and Daily Air Temperatures for Weed Seed Germination and Fungal Disease Infection

COOL SEASON		
Fungal Diseases		Additional Notes
Brown Patch	>60° nighttime temps	10-12 hours continual leaf wetness.
Dollar Spot	>50° nighttime temps	10-12 hours continual leaf wetness.
Fairy Ring	mean daily soil temps >55°	Fungicides watered in - surfactant helps
Leaf Spot	60°-65° daily temps	Slowly growing turf, regardless of reason.
Pythium Blight	>65° nighttime temps and also >85° daytime temps	12-14 hours continual leaf wetness.
Pythium Root Dysfunction	mean daily soil temps between 50° and 75°	Infects in Fall and Spring, symptoms don't appear until times of stress (Summer)
Pythium Root Rot	Any time of year	Saturated soil for several days or weeks
Summer Patch	>65° soil temps	Symptoms appear mid-summer as stresses mount

WARM SEASON		
Fungal Diseases		Additional Notes
Leaf and Sheath Blight (Mini Ring)	83°-97° daily temps	Low fertility helps development and slows recovery.
Dollar Spot	>50° nighttime temps	10-12 hours continual leaf wetness.
Fairy Ring	mean daily soil temps >55°	Fungicides watered in - surfactant helps
Leaf Spot	60°-65° daily temps	Slowly growing turf, regardless of reason.
Pythium Blight	>50° nighttime temps	12-14 hours continual leaf wetness.
Large Patch	70° soil temp	Cool, wet weather in fall
Pythium Root Rot	Any time of year	Saturated soil for several days or weeks
Spring Dead Spot	Between 60° and 80° soil temp	Preventive applications within the temperature zone should occur on 21-28 day intervals in high water volumes or watered in.
Take-all Root Rot	77°-86° soil temp	Symptoms develop in late Summer/Fall and through Winter and Spring if preventive fungicide apps aren't timed in the temperature range and watered in.



WEED SEED GERMINATION - SPRING

53°-58°	Large and Smooth Crabgrass	Soil surface moisture fluctuations around the proper temperature timing hastens germination.
60°-65°	Goosegrass	Soil surface moisture and temperature fluctuations accompanied by sunlight (thin or tightly mowed turf) around the proper temperature timing hastens germination.

WEED SEED GERMINATION - FALL

</= 70°	Poa annua	Frequent irrigation and/or rainfall around the proper temperature hastens germination.
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To learn more, visit RegalChem.com and talk to your Regal Representative.



Pre-Emergent Herbicides	Active Ingredient	Product Features	PKG	Rate Range*
Bensumec™ 4LF	Bensulide	Selective herbicide for pre-emergent control of annual grasses including crabgrass, Poa annua, and goosegrass in turf.	2.5 GAL/CT 2 X 2.5 GAL/CS	5.6 - 9.4 OZ/M
Crew™	Dithiopyr; Isoxaben	For pre-emergence control of broadleaf and grassy weeds and early post-emergence crabgrass in: Landscape ornamentals, established turfgrass (commercial and residential), ornamental and sports turf, golf course fairways, aprons and roughs, tee boxes, campgrounds, parks, recreation areas, cemeteries, and unimproved turfgrass areas, and non-crop areas.	50 LB/BG	150 - 200 LB/AC
Dimension® 2EW	Dithiopyr	For pre-emergent control of listed annual grasses and broadleaf weeds in labeled turf and ornamental settings. Also provides early post-emergent control of crabgrass.	2.5 GAL/CT 2 X 2.5 GAL/CS	0.75 - 2 PT/AC
Dimension® Ultra WP	Dithiopyr	For early post-emergent control of crabgrass and pre-emergent control of over 40 grassy and broadleaf weeds in established lawns, golf courses, field-grown nurseries, landscape ornamentals and more.	8 X 5 OZ/CT 8 X 8 X 5 OZ/CS	TURF: 0.47 - 1.25 LB/AC ORNAMENTALS: SEE LABEL
Echelon® 4SC	Sulfentrazone; Prodiamine	For pre-emergent and early post-emergent control of crabgrass, selected annual grasses, sedges, and annual broadleaf weeds in turf sites.	1 GAL/CT 4 X 1 GAL/CS	8 - 36 OZ/AC
Echelon® on Fertilizer	Sulfentrazone; Prodiamine	Formulated on a fertilizer; Echelon® provides pre-emergent and early post-emergent control of crabgrass, selected annual grasses, sedges, and annual broadleaf weeds in turf sites.	50 LB/BG	225 LB/AC
Etho 4 SC	Ethofumasate	Labeled for both pre-emergent and post-emergent control of many annual grasses and broadleaves on ornamental turf such as sod farms, parks, cemeteries and residential or commercial lawns.	0.5 GAL/CT 4 X 0.5 GAL/CS	24 - 64 OZ/AC
Flumioxazin 51% WDG	Flumioxazin	Herbicide for pre- and post-emergent control and suppression of listed weeds in labeled crop and non-crop areas.	5 LB/CT 4 X 5 LB/CS	6 - 12 OZ/AC
Fortress®	Isoxaben; Dithiopyr	A Pre-emergent granular herbicide for control of grassy and broadleaf weeds in nursery containers and field grown ornamentals. Fortress produces virtually no dust and low odor; resulting in improved worker safety and ease of application.	50 LB/BG	150 LB/AC
FreeHand®	Dimethenamid; Pendimethalin	FreeHand 1.75G herbicide the perfect tool for preemergent weed control of annual grasses, susceptible sedge species and many small-seeded broadleaf weeds.	50 LB/BG	100 - 200 LBS/AC
Fuerte™	Flumioxazin + Prodiamine	Fuerte is a pre-emergent granular herbicide for control of weeds in field, container and landscape ornamentals, grounds maintenance, and non-cropland areas. Also for Christmas tree farms and conifer farms and other non-crop areas.	50 LB/BG	100 LB/AC
Gallery® 75 DF	Isoxaben	Pre-emergent herbicide for control of certain broadleaf weeds in turf, landscape ornamentals, container and field grown ornamentals, ground covers, ornamental bulbs and conifer plantations.	1 LB/CT 4 X 1 LB/CS	.66 - 1.33 LB/AC
Gallery® SC	Isoxaben	Gallery® specialty herbicide provides superior preemergence broadleaf weed control with best-in-class ornamental and turf safety. Not only does Gallery® minimize hand-weeding in landscape ornamentals and established turfgrass, but also can be used on field-grown ornamentals and on roadsides.	2 GAL/CT 2 X 2 GAL/CS	16 - 31 FL OZ/AC

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Pre-Emergent Herbicides	Active Ingredient	Product Features	PKG	Rate Range*
Kerb® SCT&O	Pronamide	Pre- and early post-emergence herbicide for use on turf grown for sod, nonresidential sites, golf course, industrial and office building sites, stadium fields or professional athletic fields, woody ornamentals, nursery stock of ornamentals, and Christmas trees.	2.5 GAL/CT 2 X 2.5 GAL/CS	1.25 - 5 PT/AC
Lasar® on Fertilizer	Dithiopyr	For pre-emergent control of listed annual grasses and broadleaf weeds in labeled turf and ornamental settings. Also provides early post-emergent control of crabgrass.	50 LB/BAG	SEE LABEL
Lucto™	Mesotrione	Selective removal of Bentgrass in some cool season turf grasses as well as pre-emergent control of broadleaf weeds and crabgrass at time of spring seeding or turf renovation.	1 QT/CT 8 X 1 QT/CS	4 - 8 OZ/AC
Oxadiazon SC	Oxadiazon	Pre-emergent control of annual grasses and broadleaf weeds in turf, conifer nurseries and ornamentals including landscape ornamental beds on residential properties.	2.5 GAL/CT 2 X 2.5 GAL/CS	1.85 - 2.8 OZ/M
OxyStar® 2E	Oxyfluorfen	A selective herbicide used for pre- and post-emergent control of broadleaf weeds.	2.5 GAL/CT 2 X 2.5 GAL/CS	0.5 - 8 PT/AC
Pendulum® AquaCap	Pendimethalin	Pendulum AquaCap herbicide offers preemergent control of grassy and broadleaf weeds in a liquid formulation, including crabgrass, goosegrass, foxtail, barnyardgrass, fall panicum, chickweed, henbit, knotweed, spurge and others.	2.5 GAL/CT 2X2.5 GAL/CS; 15 GAL/CT	1.1 - 2.3 OZ/M
Prodiamine 4L	Prodiamine	For pre-emergent control of grass and broadleaf weeds in established turfgrasses, lawns and sod nurseries, container, field grown and landscape ornamentals, Christmas tree farms, and plants grown for cut foliage production.	2.5 GAL/CT 2 X 2.5 GAL/CS	10 - 48 OZ/AC
Regal 0-0 Herbicide®	Oxadiazon; Oxyfluorfen	For pre-emergent control of weeds in commercial nurseries and ornamental landscapes, especially suited for use in container, field grown and landscape ornamentals, and foliage crops.	50 LB/BG	100 LB/AC
Regal Ronstar® AC	Oxadiazon	2% Ronstar® in a dustless, granular formulation. Selective, preemergent herbicide for the control of annual grasses and broadleaf weeds in turf and woody ornamental shrubs, vines and trees.	50 LB/BG	100 - 200 LB/AC
Regalkade® 65 WDG	Prodiamine	For pre-emergent control of grass and broadleaf weeds in established turfgrasses; lawns, sod farms, container and field grown nurseries, Christmas tree farms, landscape ornamentals and plants grown for cut foliage production (Florida Only).	5 LB/CT 6 X 5 LB/CS	0.5 - 2.3 LB/AC
Regalkade® on Fertilizer	Prodiamine	Pre-emergent herbicide for golf courses, lawn care and residential turfgrass, and landscape ornamentals. Application rates vary based on formulation and desired length of control.	50 LB/BG	SEE LABEL
Regalkade® G	Prodiamine	Granular pre-emergent herbicide for landscape beds and container grown ornamentals to prevent broadleaf and grassy weeds for excellent summer weed control.	50 LB/BG	132 - 300 LB/AC

*Rate ranges are provided as a general reference. Please consult the label for actual rates prior to use.

RegalKade®

LASAR

**Regal
0-0 Herbicide®**

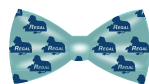
TurfGrass Kid Tip:

"Many herbicides require surfactants for maximum weed control. See herbicide labels for surfactant recommendations, and check page 33 of this product guide for Regal's surfactant offerings!"



Pre-Emergent Herbicides	Active Ingredient	Product Features	PKG	Rate Range*
RegalStar® G	Oxadiazon; Prodiamine	The best granular applied pre-emergent herbicide for control of annual grasses and broadleaf weeds in established turfgrass and landscape ornamentals.	50 LB/BG	200 LB/AC
RegalStar® II on Fertilizer	Oxadiazon; Prodiamine	The best granular applied pre-emergent herbicide for control of annual grasses and broadleaf weeds in established turfgrass, landscape, container, and field grown ornamentals.	50 LB/BG	200 LB/AC
Ronstar® Flo	Oxadiazon	Preemergence herbicide for the control of annual grasses and broadleaf weeds in turf and ornamentals including landscape ornamental beds on residential properties. Not for use in turfgrass on residential properties.	2.5 GAL/CT 2 X 2.5 GAL/CS	1.85 - 2.8 OZ/M
Ronstar® on Fertilizer	Oxadiazon	Preemergence herbicide for the control of annual grasses and broadleaf weeds in turf and ornamentals including landscape ornamental beds on residential properties. Not for use in turfgrass on residential properties. Application rates vary based on formulation and desired length of control.	50 LB/BG	SEE LABEL
Sim-Trol® 4L	Simazine	Pre-emergent herbicide for effective control of a wide variety of annual broadleaf and grassy weeds when used at selective rates in turfgrass, agricultural crops, and ornamental plantings.	2.5 GAL/CT 2 X 2.5 GAL/CS	1 - 4 QT/AC
Specticle® Flo	Indaziflam	Pre-emergent herbicide for the control of annual grasses, annual sedges, and annual broadleaf weeds in warm season turfgrass, landscape ornamentals, and hardscapes.	1 GAL/CT 2 X 1 GAL/CS 18 OZ/CT 8 X 18 OZ/CS	3.0 - 10.0 OZ/AC
Specticle® G	Indaziflam	Pre-emergent herbicide for the control of annual grasses, annual sedges, and annual broadleaf weeds in warm season turfgrass, landscape ornamentals, and hardscapes.	50 LB/BG	100 - 200 LB/AC
Tower®	Dimethenamid	Tower® herbicide is a broad-spectrum preemergent herbicide used on tees, fairways, roughs and other turfgrass and landscape areas. Used on warm-season turfgrasses, it prevents germination of hard-to-control weeds.	2.5 GAL/CT 2 X 2.5 GAL/CS	21-32 OZ/AC

*Rate ranges are provided as a general reference. Please consult the label for actual rates prior to use.



TurfGrass Geek Tip:

“With all pre-emergent herbicide applications, proper and ample irrigation or rainfall post-application is key for success. This is true whether the herbicide is sprayed, or on a granular carrier, as the final goal is even coverage across the soil surface. See labels or talk to your Regal Representative for irrigation recommendations following your pre-emergent herbicide applications.”

RegalStar® II

RegalStar II is the best pre-emergent herbicide for control of annual grasses and broadleaf weeds in established turfgrass and landscape ornamentals. Dual modes of action from Oxadiazon and Prodiamine provide unmatched weed control.

- **Oxadiazon kills emerging shoots**
- **Prodiamine kills emerging roots**

Post-Emergent Herbicides	Active Ingredient	Product Features	PKG	Rate Range*
Acclaim® Extra	Fenoxaprop	For post-emergence annual and perennial grass control in turfgrass including sod farms, commercial and residential turf and ornamentals.	2.5 GAL/CT 2 X 2.5 GAL/CS	3.5 - 39.0 OZ/AC
Ambition™	Sulfentrazone	A fast-acting post emergent herbicide containing sulfentrazone for selective weed control in turf sites.	64 OZ/CT 4 X 64 OZ/CS	4.0 - 12.0 OZ/AC
Amine, 2,4-D	2,4-D	2, 4-D Amine selective broadleaf herbicide. Labeled for aquatic weed control.	2.5 GAL/CT 2 X 2.5 GAL/CS	0.75 - 3 PT/AC
Axxe®	Ammonium Nonanoate	Non-selective broad spectrum herbicide for contact spray control or burndown of weeds and grasses	2.5 GAL/CT	SEE LABEL
Basagran® T&O	Sodium Bentazon	Basagran T&O herbicide offers reliable, cost-effective postemergent control of tough broadleaf weeds, yellow nutsedge, annual sedges and more. It can also provide weed control in ornamentals.	1 GAL/CT	24 - 32 OZ/AC
Blindside®	Sulfentrazone; Metsulfuron-Methyl	For selective control of sedges and labeled grassy and broadleaf weeds in turf including residential, commercial, and institutional lawns, athletic fields, sod farms, and golf courses.	1/2 LB/CT 12 X 1/2 LB/CS	3.25 - 10.0 OZ/AC
Brushmaster®	2,4-D; 2,4DP; DICAMBA	A low odor, low volatile ester brush control formulation that can be mixed with water for foliar treatment or mixed with oil for frill, basil bark or cut stump treatment.	1 QT/CT 12 X 1 QT/CS	SEE LABEL
Celero®	Imazosulfuron	Celero® herbicide is a selective, post-emergence herbicide for control of sedges including kyllinga in established residential and commercial turfgrass, golf courses and sod farms.	1.0 LB/CT	8 - 14 OZ/AC
Celsius®	Dicamba; Thiencarbazone Methyl; Iodosulfuron Methyl	A post-emergent herbicide for control of annual and perennial broadleaf weeds and grasses in warm-season turf types (St. Augustinegrass, Bermudagrass, Centipedegrass, Zoysiagrass) listed in this label in commercial and residential sites.	10 OZ/CT 8 X 10 OZ/CS	2.5 - 4.9 OZ/AC
Celsius® XTRA	Thiencarbazone; Iodosulfuron; Halso-sulfuron	Celsius® XTRA combines the trusted broadleaf weed control of Celsius® with the added control of sedges to create one, simple, broad-spectrum solution for postemergence weed control.	10 OZ/CT 8 X 10 OX/CS	5-10 OZ/AC
Certainty®	Sulfosulfuron	A selective herbicide for control of annual and perennial sedge, grasses and broadleaf weeds in highly managed turf, ornamental, and native grass sites.	1.25 OZ/CT 10 X 1.25 OZ/CS	0.75 - 2 OZ/M
Defendor®	Florasulam	For postemergence control of annual and perennial broadleaf weeds in established turfgrass, including residential lawns, golf courses, sports fields, sod farms and commercial areas.	1 QT/CT 4 X 1 QT/CS	4 OZ/AC
Dicamba	Dicamba	A selective herbicide used for post-emergent control of broadleaf weeds.	2.5 GAL/CT 2 X 2.5 GAL/CS	SEE LABEL
Diquat	Diquat Dibromide	Non-selective herbicide to control weeds in commercial greenhouses and nurseries, landscape, industrial, recreational, commercial, residential, and public areas; turf renovation; dormant established turfgrass; and aquatic areas.	2.5 GAL/CT 2 X 2.5 GAL/CS	1 - 2 PT/AC
Dismiss®	Sulfentrazone	For selective weed control, including sedges in residential and institutional lawns, athletic fields, commercial sod farms, golf course fairways and roughs. Also for use as selective weed control in container and field grown ornamentals.	6 OZ/CT 12 X 6 OZ/CS	4 - 12 OZ/AC

*Rate ranges are provided as a general reference. Please consult the label for actual rates prior to use.

Post-Emergent Herbicides	Active Ingredient	Product Features	PKG	Rate Range*
Dismiss® NXT	Sulfentrazone; Carfentrazone-Ethyl	For selective weed control, including sedges in turf including residential, commercial and institutional lawns, athletic fields, commercial sod farms, golf course fairways and roughs, and other non-crop sites (see label).	10 OZ/CT 8 X 10 OZ/CT 60 OZ/CT 4 X 60 OZ/CS	5.1 - 15.25 OZ/AC
Dismiss® South	Sulfentrazone; Imazethapyr	For selective weed control, including sedges in warm season turf (excluding St. Augustine) including residential, commercial and institutional lawns, athletic fields, commercial sod farms, golf course fairways and roughs, and other non-crop sites (see label).	1 PT/CT 8 X 1 PT/CS	9.5 - 14.4 OZ/AC
Game On™	Arylex™ (Halauxifen-methyl); 2,4-D Choline; Fluroxypyr	For postemergence control of annual and perennial broadleaf weeds in established turfgrass and ornamental grasses in golf courses, industrial sites, cemeteries, commercial sod farms, and unimproved turfgrass areas.	2.5 GAL/CT 2 X 2.5 GAL/CS	3 - 4 PT/AC
Glyphosel™ Pro Dry 75 SG	Glyphosate + Ammonium Sulfate	An easy-to-use formulation of glyphosate that includes ammonium sulfate and surfactant to provide quick and effected non-selective weed control.	11 OZ/CT 12 X 11 OZ/CS; 5 LBS/CT 4 X 5LBS/CS	1.5 OZ/GAL
Katana®	Flazasulfuron	A selective post-emergent herbicide that controls annual and perennial grasses, sedges, and broadleaf weeds. Works in colder temps and highly selective in most warm-season turfgrasses. Also an excellent product for overseed transition.	5 OZ/CT 4 X 5 OZ/CS	1 - 3 OZ/AC
Lontrel®	Clopyralid	A selective post-emergent herbicide for the control of broadleaf weeds in non-residential turf, ornamental plantings, landscapes and nurseries.	1 QT/CT 12 X 1 QT/CS	0.25 - 1.3 PT/AC
Metricor™ Df	Metribuzin	For control of certain grasses and broadleaf weeds in established bermudagrass turf.	10 LB/CT 2 X 10 LB/CS	1/3 - 2/3 LB/AC
Metsulfuron	Metsulfuron Methyl	Controls perennial grasses and labeled broadleaf weeds in most warm- and some cool-season turfgrasses.	8 OZ/CT 8 X 8 OZ/CS	0.125 - 4.0 OZ/AC
MSMA-Target® 6 Plus	MSMA	MSMA plus surfactant for postemergence weed control in golf courses and sod farms.	2.5 GAL/CT 2 X 2.5 GAL/CS	1 - 2 OZ/M
NativeKlean™	Aminopyralid; 2,4-D	For control of broadleaf weeds, including invasive and noxious weeds and certain woody plants, in native or natural areas that are not regularly mowed or maintained.	1 GAL/CT 4 X 1 GAL/CS	0.8 - 2.1 PT/AC
Negate® 37WG	Rimsulfuron; Metsulfuron Methyl	Unique dual powered post-emergent Sulfonylurea herbicide for grassy and tough broadleaf weed control in established warm season turfgrass.	1.5 OZ/CT 6 X 1.5 OZ/CS	1.5 OZ/AC
Ornamec® Over -The-Top	Fluazifop-p-butyl	Selective post-emergent grass herbicide for landscape beds, ground covers and ornamental plantings. Can be applied over the top of broadleaf plants.	1 QT/CT 12 X 1 QT/CS	8 - 9.6 OZ/M
Pylex®	Topramezone	Pylex herbicide providing unmatched performance on difficult-to-eliminate weeds such as bermudagrass and goosegrass in cool-season turf as well as excellent control of nimblewill, crabgrass, clover, speedwell, and others.	4 OZ/CT 4 X 4 OZ/CS	0.25 1.5 OZ/AC
Q4® Plus	Quinclorac; Sulfentrazone; 2,4-D; Dicamba	Post-emergent control of both grassy and broadleaf weeds.	2.5 GAL/CT 2 X 2.5 GAL/CASE	5 - 8 PTS/AC

*Rate ranges are provided as a general reference. Please consult the label for actual rates prior to use.

Post-Emergent Herbicides	Active Ingredient	Product Features	PKG	Rate Range*
Quicksilver®	Carfentrazone	A contact herbicide with little or no residual activity that provides selective post emergence control of broadleaf weeds and silvery thread moss (Bryum argenteum) in turfgrass.	8 OZ/CT 4 X 8 OZ/CS	0.9 - 2.1 OZ/AC
Quinclorac 75 DF	Quinclorac	Post-emergent control of broadleaf and grassy weeds, including crabgrass, in a wide variety of residential and commercial turf, golf courses, sports fields, and sod farms.	1 LB/CT 6 X 1 LB/CS	0.18 - 0.367 OZ/M
Ranger Pro®	Glyphosate	Non-selective complete broad-spectrum post-emergence herbicide for industrial, turf, and ornamental weed control	2.5 GAL/CT 2 X 2.5 GAL/CS 30 GL/DR	1 - 5 QT/AC
Revolver®	Foramsulfuron	For the control of annual and perennial grasses in bermudagrass, zoysiagrass, and buffalograss.	87 OZ/CT 4 X 87 OZ/CS	8.8 - 35.2 OZ/AC
Rimsulfuron 25DF	Rimsulfuron	For unsurpassed Poa and ryegrass control in spring transition and fall overseeding on warm season turf.	5 OZ/CT 6 X 5 OZ/CS	0.5 - 2 OZ/AC
Roundup QuikPRO® SC	Indaziflam; Diquat; Glyphosate	Provides non-selective control of emerged and pre-emerged grasses and broadleaf weeds in non-crop areas, hardscapes, landscape ornamental beds, and government sites.	144 OZ/CT 4 X 144 OZ/CS	16 OZ/M
Sedgemaster	Halosulfuron-methyl	Selective post-emergent herbicide for control of listed weeds, including both broadleaf weeds and nutsedge, in turfgrasses and other non-crop sites.	1.33 OZ 4 X 1.33 OZ/CS	0.66 - 2.66 OZ/AC
Solitare®	Sulfentrazone; Quinclorac	For selective weed control in turf including residential, commercial and institutional lawns, athletic fields, commercial sod farms, golf course fairways and roughs, and other non-crop sites.	4 LBS/CT 4 X 4 LBS/CS	0.75 - 1 LBS/AC
Solitare® WLS	Sulfentrazone; Quinclorac	Solitare® WSL herbicide contains sulfentrazone and quinclorac in a water soluble liquid (WSL), the most complete combination against post-emergece weeds such as Crabgrass. Solitare® WSL can be applied on both warm and cool season grasses for flexible control.	2.5 GAL/CT 2 X 2.5GAL/CS	4.0 - 7.9 OZ/M
Speedzone® EW	2,4-D; Dichlorporop ester; Dicamba; Carfentrazone	Post-emergence broadleaf weed control in home lawns, golf courses, parks, commercial property, schools, sod farms, roadsides and cemeteries, especially where rapid visual results are an advantage.	2.5 GAL/CT 2 X 2.5 GAL/CS	0.75 - 1.8 OZ/M
Speedzone® - Southern EW	2,4-D; Carfentrazone; Dicamba; Mecoprop	Post-emergent weed control formulated for southern turfgrasses. Labeled for use on ornamental turf, golf courses, lawns, sod farms, roadsides, cemeteries, sports turf and parks, especially where rapid visual results are an advantage.	2.5 GAL/CT 2 X 2.5 GAL/CS	0.55 - 1.8 OZ/M
Surge®	Sulfentrazone; 2,4-D; Mecoprop; Dicamba	Post-emergence broadleaf weed control in home lawns, golf courses, commercial property, schools, sod farms, and cemeteries, especially where rapid visual results are an advantage during warmer weather.	2.5 GAL/CT 2 X 2.5 GAL/CS	1.0 - 1.5 OZ/M
Surmise® PRO	Glufosinate ammonium	Non-selective post-emergent herbicide.	2.5 GAL/CS 2 X 2.5 GAL/CS	40 - 80 OZ/AC

*Rate ranges are provided as a general reference. Please consult the label for actual rates prior to use.

To learn more, visit RegalChem.com and talk to your Regal Representative.

Post-Emergent Herbicides	Active Ingredient	Product Features	PKG	Rate Range*
Tribute® Total	Foramsulfuron; Thiencarba- zone-Methyl; Halosulfuron	For control of annual and perennial grass weeds, sedges and kyllingas, and broadleaf weeds as well as the removal of overseeded ryegrass in bermudagrass and zoysiagrass of commercial and residential sites.	6 OZ/CT 6 X 6 OZ/CS	1 - 3.2 OZ/AC
Triclopyr 4E	Triclopyr	An herbicide for control of woody plants, annuals, and perennial broadleaf weeds in forests, grass pastures, rangeland, CRP acres, rights-of-way, and in non-crop areas and ornamental turf, industrial sites, and non-irrigation ditch banks.	2.5 GAL/CT 2 X 2.5GAL/CS	8 - 32 OZ/AC
Vessel®	2,4-D; Dicamba; Mecoprop	For post-emergent broadleaf weed control in ornamental lawns and turf established in institutional, ornamental, and residential/domestic sites.	2.5 GAL/CT 2 X 2.5 GAL/CS 30 GAL/DR 275 GAL/DR	1.0 - 1.5 OZ/AC
Vexis®	Pyrimisulfan	Granular herbicide formulation that delivers exceptional control of sedge and kyllinga species, plus listed broadleaf weeds.	2 LBS/CT 6 X 2 LBS/CS; 25 LB/BG	2 LB/500 SQ FT
Xonerate® 2SC	Amicarbazone	A selective, post-emergent herbicide that may be used for the control of certain weeds, including Poa annua, in turf on golf courses and other turf areas and conifers in nurseries and field plantings (including Christmas trees).	12 OZ/CT 8 X 12 OZ/CS	3 - 29 OZ/AC

*Rate ranges are provided as a general reference. Please consult the label for actual rates prior to use.

TANK MIXING TIPS



TO BEGIN: Start with an amount of water equal to 30-50% of final total spray volume and begin the agitation.

Please Note:

Some product combinations require a specific mixing sequence. In absence of label recommendations, use this method because the compatibility of two or more chemicals may be based on the order in which they are added.

W. A. L. E. S.

ORDER OF ADDITIONAL INGREDIENTS: Add individually and allow each ingredient to be uniformly mixed before adding the next component. Continuously agitate throughout the mixing process.

Wettable Powders, Water Dispersible Granules and Water Soluble Fungicides. Always add pesticides first and allow for thorough agitation.

Agitate Tank Mix Thoroughly

Liquid Flowables and Suspensions (Add pesticides first) Harness and Ensemble products added here and agitate thoroughly in-between each product.

Emulsifiable Concentrate Formulations. Always add pesticides first and allow for thorough agitation.

Surfactants/Solutions (Always add pesticides first).

Insecticides	Active Ingredient	Product Features	PKG	Rate Range*
Abamectin 0.15EC	Abamectin	Reliable, long-lasting control of mites and leafminers along with suppression of whitefly, thrips, and aphids on foliage plants, woody ornamentals, and Christmas trees.	4 X 1QT/CS 4 X 1GAL/CS	4 - 8 OZ 100 GAL H2O
Acephate 90	Acephate	Contact insecticide for controlling mole crickets, fire ants, aphids, worms and many other pests in turf and ornamentals.	5 LB/CT 6 X 5 LB/CS	SEE LABEL
Adept®	Diflubenzuron	Adept® Insect Growth Regulator (IGR) is an effective tool for controlling fungus gnats, shore flies, and foliar feeding pests found in ornamental crops grown in greenhouses, shade houses, and interiorscapes.	16 X 1 OZ/CT 12 X 16 X 1 OZ/CS	1 - 2 OZ / 100 GAL H2O
Akari®	Fenpyroximate	For use on greenhouse and nursery ornamentals, greenhouse cucumbers, greenhouse tomatoes, nonbearing fruit trees and vines, Christmas trees, and interior ornamental plantings and landscapes.	1 QT/CT 6 X 1 QT/CS	1 - 32 OZ 100 GAL
Altus®	Flupyradifurone	Altus® contains Flupyradifurone, a butenolide chemistry that is a great fit for integrated pest management programs targeting control of whiteflies, aphids and other harmful insects.	64 FL OZ/CT 4 X 64 OZ/CS	7.0 - 14 OZ/AC or 2.8 - 3.7 FL OZ/100 GAL Drench
Alucion™ 35 WG	Dinotefuran; Alpha-cypermethrin	Introducing Alucion™ 35 WG insecticide, the only non-restricted use pyrethroid labeled for golf courses. Fueled by two active ingredients, dinotefuran and alpha-cypermethrin, Alucion 35 WG insecticide delivers fast-acting control of surfacefeeding insects.	2.375 LB/CT 10 X 2.375 LB/CS	0.44 OZ/M
Arena® 50WDG	Clothianidin	A broad spectrum insecticide that works as both a preventive and a curative, for outstanding control of chinch bugs, white grubs and other turf and ornamental pest with a single application.	2.5 LB/CT 4 X 2.5 LB/CS	4.5 - 12.8 OZ/AC
Aria®	Flonicamid	For control of phytophagous pests in greenhouses, nurseries and landscapes.	160 GRAM/CT 20 X 160 GRAM/CS	20 - 120 GRAMS 100 GAL
Avalon™ (Golf/Nursery)	Bifenthrin	For Commercial non-food use on indoor and outdoor ornamentals, greenhouses, nurseries, turf on golf courses and sod farms. Bifenthrin is a pyrethroid insecticide for control of ants (including fire ants), worms, mole crickets, bill bugs, and chinch bugs.	1 GAL/CS 4 X 1 GAL/CS	GOLF: 10 - 40 OZ/AC NURSERY: 5 - 40 OZ/AC
Avalon™ (LCO)	Bifenthrin	Bifenthrin insecticide to control pests indoors and outdoors in most residential and commercial settings - see label for full details.	1 GAL/CT 4 X 1 GAL/CS	SEE LABEL
Broadcide™ NG	Bifenthrin	Bifenthrin impregnated on sand for control of ants (including fire ants), worms, mole crickets, bill bugs, and chinch bugs.	50 LB/BG	SEE LABEL
Chlorpyrifos 2.32 G	Chlorpyrifos	For effective long lasting control of chinch bugs, Asian roaches, fire ants, fleas, ticks, foraging ants, mole crickets and other outdoor insects.	50 LB/BG	SEE LABEL
Chlorpyrifos Pro 4	Chlorpyrifos	Controls labeled insect pests in turf and ornamental areas.	2.5 GAL/CT 2 X 2.5 GAL/CS	1 - 2 PT/AC
Conserve® SC	Spinosad	Insecticide for broad-spectrum control of listed pests in labeled vegetables, ornamentals, and turf.	1 QT/CT	SEE LABEL

*Rate ranges are provided as a general reference. Please consult the label for actual rates prior to use.

Insecticides	Active Ingredient	Product Features	PKG	Rate Range*
Deadline MP's™	Metaldehyde	For attracting and destroying slugs and snails.	25 LB/BG	10 - 25 LB/AC
DiPel® Pro DF	Bacillus thuringiensis	Biological insecticide for control of labeled pests in both field and greenhouse as well as in self-contained, closed system, ornamental ponds.	1 LB/CT 30 X 1 LB/CS	0.25 - 2.0 LBS/AC
Discus® L	Imidacloprid; Cyfluthrin	Discus® L Insecticide is a versatile, broad-spectrum product that is safe on virtually all plant material and offers control of a wide range of insects.	1 GAL/CT 4 X 1 GAL/CS	25 - 50 OZ / 100 GAL H2O
DuraFlex ZC	Bifenthrin; Novaluron; Pyriproxyfen	For prevention and control of pests in and around structures including fleas, flies, ants, mosquitoes, ticks, cockroaches, stored product pests and others. To control listed pests on lawns, turfgrass, ornamental trees, ornamental grasses and shrubs around residential, institutional, public, commercial, agricultural and industrial buildings, parks, recreational areas, golf course out of play areas (including native planting areas, around club houses, out buildings and on-course lavatories), athletic fields and greenhouses. For both indoor and outdoor use.	1 QT/CT 6 X 1 QT	SEE LABEL
Extinguish® Plus	Hydramethylnon; S-Methoprene	Unique two-way killing action for fire ant control that eliminates the fire ant colony. For use on residential and commercial property, container or nursery stock, sod farms and commercial turf. Insect growth regulator.	25 LB/BG	1 - 2 LB/AC
Extinguish® Shakers	Hydramethylnon; S-Methoprene	Unique two-way killing action for fire ant control that eliminates the fire ant colony. For use on residential and commercial property, container or nursery stock, sod farms and commercial turf. Insect growth regulator.	1.5 LB/CT 8 X 1.5 LB/CS	1 - 2 LB/AC
Fendona® CS	Alpha-cypermethrin	Protected inside its unique micro-mesh encapsulation, the active ingredient in Fendona® CS controlled release insecticide.	16 OZ/CT 6 X 16 OZ/CS	4 - 16 OZ / 100 GAL H2O
Floramite® SC	Bifenazate	Miticide providing outstanding control of a variety of mite pests on ornamental plants in greenhouse, shadehouse, nursery, field, landscape and interiorscape settings. Effective on a variety of mites and all life stages of Tetranychid spider mites.	1 QT/CT 2 X 1 QT/CS	4 - 8 OZ / 100 GAL H2O
Fulcrum®	Pyriproxyfen	Insect Growth Regulator (IGR) that is highly effective against a broad-spectrum of greenhouse and nursery insects. Controls nymphs/larvae and pupae and negatively affects development of viable eggs.	1 QT/CT 4 X 1 QT/CS	2 - 12 OZ / 100 GAL H2O
Giant Destroyers®	Sodium Nitrate; Sulfur; Charcoal	Used only to control pocket gophers, moles, woodchucks, rats, skunks, and ground squirrels in non-crop areas (including residential lawns, parks, golf courses, re-forested areas, open fields) and in rangeland.	4/CT	SEE LABEL
Hachi-Hachi®	Tolfenpyrad	Insecticide for indoor greenhouse use on ornamental plants.	64 OZ/CT 4 X 64 OZ/CS	14 - 32OZ 100 GAL
Imidacloprid 0.5G	Imidacloprid	A broad spectrum systemic granular insecticide for insect control in turfgrass and landscape ornamentals.	30 LB/BG	T60 - 80 LB/AC
Imidacloprid 2FT&O	Imidacloprid	For control of listed insect pests on turf and ornamentals, nurseries, and greenhouses.	1 GAL/CT 4 X 1 GAL/CS	TURF: 0.46 - 0.6 OZ/M ORNAMENTALS: SEE LABEL

*Rate ranges are provided as a general reference. Please consult the label for actual rates prior to use.

Insecticides	Active Ingredient	Product Features	PKG	Rate Range*
Indemnify®	Fluopyram	Broad spectrum control of nematodes for enhanced root growth in the presence of plant pathogenic nematodes. For use on most turfgrass areas.	17.1 OZ/CT 4 X 17.1 OZ/CT	0.195 - 0.39 OZ/M
Nemamectin™ 0.7 SC	Abamectin	For control of sting, root-knot, and lance nematode species on golf greens, tees, and fairways of all turf species.	1 GAL 4 X 1 GAL/CS	3.125 - 12.2 OZ/AC
Onyx Pro®	Bifenthrin	For commercial non-food use in interiorscapes and on outdoor ornamentals, christmas trees, nurseries, lawns, sod farms, and golf courses.	1 QT/CT 16 X 1 QT/CS	SEE LABEL
Pedestal®	Novaluron	Pedestal is an insect growth regulator (IGR) effective in the control of a variety of insect pests on container-grown ornamental plants, including tomatoes grown in greenhouses.	1QT/CT 8 X 1 QT/CS	6 - 8 oz / 100
Piston™	Chlorfenapyr	Insecticide for broad-spectrum control of tough greenhouse pests. For use only on fruiting vegetables and ornamental crops grown in commercial greenhouses.	1 QT/CT 4 X 1 QT/CS	2.6 - 10 OZ 100 GAL
Pradia™	Cyclanilprole; Fonicamid	A combination of two unique insecticides providing both contact and systemic activity delivering a quick knockdown (48 hours) and excellent long-term control of 3 to 4 weeks of residual activity on problem insects such as aphids, thrips and whiteflies.	1 QT/CT 4 X 1 QT/CS	10 - 17 OZ / 100 GAL H2O
Probait®	Hydromethylnon	Kills imported and native fire ants and other ants. Kills the queen and destroys the mound.	25 LB/BG	SEE LABEL
Quasar™ 8.5 SL	Acetemiprid	Provides immediate, long-lasting control of a wide variety of harmful insects including aphids, leaf-eating beetles, caterpillars, leaf miners, scales, mealy bugs, whiteflies and thrips.	1 QT/CT 4 X 1QT/CS	4 – 25.3 OZ 100 GAL
Rycar®	Pyrifluquinazon	Insecticide for indoor greenhouse use on ornamental plants. Fits great into an IPM program looking to diversify spray rotations and reduce the risk of resistance.	8 OZ/CT 12 x 8 OZ/CS	1.6 - 6.4 OZ 100 GAL
Safari® 20 SG	Dinotefuron	Foliar and systemic insect control in ornamental plants and vegetable transplants in enclosed structures. For greenhouse, nursery, interior plantscape and outdoor landscape use only.	3 LB/CT 4 X 3 LB/CS	SEE LABEL
Sarisa™	Cyclanilprole	Provides quick knockdown (48 hours) of target pests with residual control of 3 to 4 weeks on thrips, caterpillars, and beetles (including flea and Japanese beetles), along with other sucking and chewing insects.	64 OZ/CT 4 X 64 OZ/CS	10.9 - 27 OZ / 100 GAL H2O
Shuttle® O	Acequinocyl	Shuttle® O miticide is the first product from the naphthoquinone derivative class of chemistry. Shuttle® O is an excellent choice as a rotational tool for control of two-spotted spider mites, spruce spider mites and other mites.	16 OZ/CT 4 X 16OZ/CS	6.4 - 31 OZ/AC
Stryker®	Prallethrin	Wasp and hornet killer.	12 X 15 OZ/CS	SEE LABEL
Sultan®	Cyflumetofen	Sultan miticide delivers fast, powerful control and lasting protection against all life stages of spider mites on ornamentals.	32 OZ/CT 4 X 32 OZ/CS	13.7 OZ / 100 GAL H2O

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Insecticides	Active Ingredient	Product Features	PKG	Rate Range*
Suprado	Novaluron	Quali-Pro's Suprado Insecticide is powered by Novaluron, a brand-new class of chemistry with a unique mode of action to fight against annual bluegrass weevils and other insect pest.	1 GAL/CT 2 X 1 GAL/CS	0.7 - 3.0 OZ/M
Talus® 70 DF	Buprofezin	In addition to its phenomenal activity against nuisance insects, some of the best features of Talus Insect Growth Regulator (IGR) include its tenderness to ornamentals, tomatoes and beneficial insects.	3 LB/CT 4 X 3 LB/CS	6.0 - 14.0 OZ/AC
Taurus Trio® G	Fipronil; Bifenthrin; Lambda Cyhalothrin	Triple active ingredient Taurus® Trio G delivers quick knock down of fire ants, mole crickets, nuisance ants, fleas, and ticks while providing long residual activity.	30 LB/BAG	87 LB/AC
Tengard® SFR	Permethrin	For use as an insecticide on ornamentals grown in interiorscapes, for perimeter insect control on lawns, ornamental trees and shrubs around residential, commercial, and other labeled areas.	5 QT/CT 4 X 5 QT/CS	TURF: 0.4 - 0.8 OZ/M ORNAMENTALS: 4 OZ - 5 QT 100 GAL
Tetrasan® 5WDG	Etoxazole	Miticide/Ovicide for use on ornamental plants grown in greenhouses and nurseries and outdoor ornamental plants in landscapes. Controls spider mites on underside of leaves even when it's difficult to get good under leaf coverage.	8 X 2 OZ/CT 8 X 8 X 2 OZ/CS	16 - 40 OZ/AC
Tetrino™	Tetraniliprole	This game-changing technology features tetraniliprole as its active ingredient to control a wide range of turf-damaging insects such as white grubs, ABW's, caterpillars, billbugs and fall armyworms.	1 GAL/CT 4 X 1 GAL/CS	16 - 32 OZ/AC
Total	Abamectin	For control of turf-parasitic nematodes on golf course greens, tees, and fairways.	1 GAL 4 X 1 GAL/CS	16 - 57 OZ/AC
Topchoice®	Fipronil	Granular Imported fire ant control that also controls mole crickets, nuisance ants, fleas, and ticks.	50 LB/BG	87 LB/AC
Triple Crown® Golf	Zeta-Cypermethrin; Bifenthrin; Imidacloprid	For use to control listed insect pests on golf courses.	1 GAL/CT 4 X 1 GAL/CS	10 - 35 OZ/AC
Triple Crown® T&O	Zeta-Cypermethrin; Bifenthrin; Imidacloprid	For use on lawns and landscaped areas around residential, institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields.	1 GAL/CT 4 X 1 GAL/CS	TURF: 10 - 35 OZ/AC ORNAMENTAL: 2.5 - 7.5 OZ 100 GAL H2O
Tri-Tek™	Mineral Oil	Spray oil emulsion insecticide, miticide, scalecide, and fungicide for ornamentals and trees.	2.5 GAL/CT 2 X 2.5 GAL/CS	1 - 2 GAL 100 GAL H2O
Ventigra®	Afidopyropen	Ventigra insecticide controls piercing-sucking insects such as aphids, mealybugs, whiteflies and scale.	20 OZ/CT 4 X 20 OZ/CS	1.4 -7.0 OZ / 100 GAL H2O
XXpire®	Spinetoram; Sulfoxaflor	XXpire® insecticide combines two active ingredients – sulfoxaflor and spinetoram – to control more than 39 insects, including seven of the top 10 chewing and sap-feeding insects in greenhouses and nurseries.	1 LBS/CT 12 X 1 LBS/CS	5.5 - 7.0 OZ/AC

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LET US HELP YOU CLEAN UP YOUR POND!

IRRIGATION PONDS

- Captain® XTR** (Hard to Control Algae)
- Earthtec®** (Algaecide)
- Komeen®** (Weed Control)
- K-Tea** (Green and Blue-Green Algae)
- SeClear** (Algaecide and Water Quality)

NON-IRRIGATION PONDS

- Sonar RTU** (Weed Control)
- SonarOne®** (Weed Control)



BEFORE

AFTER

Aquatic Products	Active Ingredient	Product Features	PKG
Captain® XTR	Copper Ethanolamine Complex	Captain® XTR is optimized to increase the penetration of copper into algae cells, enhancing the efficacy of the product. This formulation is especially impactful when targeting tough to control mat-forming, colonial and mucilaginous species. Waters treated with Captain® XTR may be used for swimming, fishing, and irrigation of food and non-food crops (e.g. turf, ornamentals) during and after application.	2.5 GAL/CT 2 X 2.5 GAL/CS
Earthtec®	Copper Sulfate Pentahydrate	#1 recommended aquatic algae and bacteria control for ponds, lakes and water reservoirs. Safe to fish. Refer to label for application rates. May be used in irrigation and potable water.	2 X 2.5 GAL/CS
Komen®	Copper Ethanolamine Complex	Komen® aquatic herbicide is ideal for quick, targeted control of nuisance submerged and floating aquatic weeds. Komen's® unique chemistry can also effectively control copper-sensitive algae in treated water bodies.	1 GAL/CT 4 X 1 GAL/CS
K-Tea™	Copper Triethanolamine complex	Chelated copper for aquatic algae control.	2.5 GAL/CT 2 X 2.5 GAL/CS
SeClear	Copper Sulfate Pentahydrate	SeClear algaecide and water quality enhancer in one designed to replace routine algaecide treatments. Delivering longer-lasting results, improved water quality and reduced maintenance through time. SeClear provides effective control of a broad-range of algae species while reducing in-water phosphorous levels with each application.	2 x 2.5 GAL/CS
Sonar® RTU	Fluridone	Sonar® RTU is a Ready-To-Use formula that controls most troublesome pond weeds including Duckweed. No mixing, no need for spray equipment or a boat—simply apply directly into the water from the shoreline.	1 QT/CT 4 X 1 QT/CT
SonarOne®	Fluridone	Pellet formulation of fluridone herbicide for management of aquatic vegetation in fresh water ponds, lakes, reservoirs, potable water sources, drainage canals, and rivers.	5 LBS/CT 2 X 5 LBS/CS

Growth Regulators	Active Ingredient	Product Features	PKG	Rate Range*
Anuew™	Prohexadione calcium	Plant growth regulator for managing growth, improving quality, stress tolerance, and appearance of turf.	1.5 LB/CT 4 X 1.5 LB/CS	2 - 24 OZ/AC
Atrimmec®	Dikegulac-sodium	A systemic plant growth regulator that when applied to shrubs, hedges, trees, and groundcovers, it reduces trimming and pruning labor, and can improve the appearance of landscape ornamentals.	1 QT/CT 12 X 1 QT/CS 1 GAL/CT 4 X 1 GAL/CS	SEE LABEL
B-Nine® WSG	Daminozide	B-Nine® WSG reduces plant height in ornamental plants by reducing internode length. Other benefits include a deeper green color and reduced breakage during shipping. B-Nine® WSG when applied to plant foliage is absorbed into the leaf, moves within the plant to the growing points to reduce internode elongation.	1 LB/CT 12 X 1 LB/CS	SEE LABEL
Cutless® 50W Superpak	Flurprimidol	For growth management and quality improvement of perennial cool and warm season turfgrasses on golf courses.	60 X 8 OZ/DR	4 - 16 OZ/AC
Cutless® MEC	Flurprimidol	For growth management and quality improvement of perennial cool and warm season turfgrasses on golf courses.	2.5 GAL/CT 2 X 2.5 GAL/CS	6.1 - 49.2 OZ/AC
Cycocel®	Chlormequat	Cycocel® is among the most reliable and widely used plant growth regulators on the market today. Cycocel® may be used on any crop in the greenhouse or nursery including but not limited to, poinsettias, hibiscus, azaleas, and geraniums to reduce stem elongation, induce early flowering, improve flowering, and to produce compact plants with multiple buds per shoots.	1 GL/CT 4 X 1 GAL/CS	SEE LABEL
Ethephon 2SL	Ethephon	Systemic, foliarly absorbed Type 2 PGR that promotes lateral growth in turf while limiting top growth and suppressing seedheads of Poa and white clover.	2.5 GAL/CT 2 X 2.5 GAL/CS	5 OZ/AC
Legacy®	Flurprimidol; Trinexapac-ethyl	Legacy® integrates patented synergy of turf growth regulator technology for growth management and quality improvement of perennial cool and warm season turfgrasses on golf courses.	2.5 GAL/CT 2 X 2.5 GAL/CS	5 - 30 OZ/AC
Musketeer®	Flurprimidol; Paclobutrazol; Trinexapac-ethyl	Musketeer® is the efficient, economical solution to Poa annua conversion and suppression in both perennial cool-season turf stands and overseeded bermudagrass fairways. Creates dense turf stands, improved playability, and minimal impact to lateral growth and recovery of desirable turf.	2.5 GAL/CT 2 X 2.5 GAL/CS	12 - 40 OZ/AC
Pac O™	Paclobutrazol	Extremely active plant growth regulator that can significantly curtail unwanted plant growth through reduced internode elongation.	1 GAL/CT 4 X 1 GAL/CS	SEE LABEL
Solace™	Trinexapac-ethyl	Reduces the growth of warm and cool season turfgrasses and thereby helps reduce clipping yield and mowing frequency.	1 GAL/CT 2 X 1 GAL/CS	0.1 - 1 OZ/M
Tide Paclo 2SC	Paclobutrazol	Systemic plant growth regulator that slows vegetative growth of turfgrass and trees.	1 GAL/CT 4 X 1 GAL/CS	6.4 OZ - 48 OZ/AC
Topflor®	Flurprimidol	A growth regulator for use on ornamental plants grown in containers in commercial nurseries, greenhouses and shadehouses.	2 LTR/CT 4 X 2 LTR/CS	SEE LABEL

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The Regal REPORT™

Based on Science, Balanced for Your Budget.



Regal Fertilizers

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Blue Chip™ (UF) Blends			250 Lb. / Acre				200 Lb. / Acre				175 Lb. / Acre				150 Lb. / Acre			
Fertilizer	Nutrition Source	Product Features	N	SRT	P	K	N	SRT	P	K	N	SRT	P	K	N	SRT	P	K
Regal Fertilizer 38-0-0 100% BlueChip™	UF	100% BlueChip™ offering predictable microbial release of Nitrogen throughout the growing season.	2.18	2.18	0.00	0.00	1.75	1.75	0.00	0.00	1.53	1.53	0.00	0.00	1.31	1.31	0.00	0.00
Regal Fertilizer 42-0-0 50% BlueChip™	UF, Urea	Up front Nitrogen from Urea leads into the microbial release of Nitrogen from BlueChip.™ All fertilizer; zero filler. High-analysis blend allows for application rate flexibility.	2.41	1.2	0.00	0.00	1.93	0.96	0.00	0.00	1.69	0.84	0.00	0.00	1.45	0.72	0.00	0.00
Regal Fertilizer 22-0-11 50% BlueChip™	UF, Urea, MOP	BlueChip™ driven blend with 50% quick N from Urea and 50% slow N from BlueChip.™ Formulated to be applied at 200 lb./Acre and supply 1 lb. N and 0.5 lb. K. Ideal product when upfront kick and extended feeding is desired and soil test shows that K will become a limiting factor affecting acceptable turfgrass quality.	1.26	0.63	0.00	0.63	1.01	0.51	0.00	0.51	0.88	0.44	0.00	0.44	0.76	0.38	0.00	0.38
Regal Fertilizer 22-11-11 75% BlueChip™	UF, Urea, DAP, MOP	BlueChip™ driven blend with enough Urea for quick greening and growth. Formulated to be applied at 200 lb./Acre and supply 1 lb. N and 0.5 lb. P/ Acre and 0.5 lb. K/Acre. Ideal product to use where a soil test shows that P and K will become limiting factors affecting acceptable turfgrass quality.	1.26	0.95	0.63	0.63	1.01	0.76	0.51	0.51	0.88	0.66	0.44	0.44	0.76	0.57	0.38	0.38

BLUECHIP™

Get the scoop from **William Dunnivant**, Regal's Agronomist & Turfgrass Geek @ regalchem.com/what-is-the-nitrogen-cycle

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Methylene Urea Blends			250 Lb. / Acre				200 Lb. / Acre				175 Lb. / Acre				150 Lb. / Acre			
Fertilizer	Nutrition Source	Product Features	N	SRT	P	K	N	SRT	P	K	N	SRT	P	K	N	SRT	P	K
Regal Fertilizer 23-0-0 50% MU	MU, Urea	Methylene Urea/Urea blend for maximum growth, recovery, and residual greening of turfgrass.	1.32	0.66	0.00	0.00	1.06	0.53	0.00	0.00	0.92	0.46	0.00	0.00	0.79	0.4	0.00	0.00
Regal Fertilizer 13-2-7 with Minors Amend Blend	MU, MOP, Bio Solids, Potassium Magnesium Sulphate	Methylene Urea Nitrogen bolstered by biosolids and micronutrients for surface turf fertility/recovery applications, and turf replacement/establishment applications.	0.75	0.75	0.11	0.04	0.6	0.6	0.9	0.32	0.52	0.52	0.08	0.28	0.45	0.45	0.07	0.24
Regal Fertilizer 24-6-12	MU, Urea, MAP, SOP	A complete fertilizer driven by Methylene Urea for extended growth and recovery and just enough Urea for quick greening. The addition of phosphorus from MAP and potassium from SOP creates a uniformly small particle size blend, making this product perfect for application on dense canopy turf.	1.38	0.96	34	0.69	1.1	0.77	0.27	0.55	0.96	0.67	0.24	0.48	0.82	0.58	0.19	0.41

Polymer Coat Urea (PCU) Blends			250 Lb. / Acre				200 Lb. / Acre				175 Lb. / Acre				150 Lb. / Acre			
Fertilizer	Nutrition Source	Product Features	N	SRT	P	K	N	SRT	P	K	N	SRT	P	K	N	SRT	P	K
Regal Fertilizer 33-0-0 75% PCU	PCU, Urea	High Nitrogen blend driven by PCU with enough Urea to hasten growth after application, and controlled release PCU to improve Nitrogen uptake efficiency and reduce waste.	1.89	1.42	0.00	0.00	1.52	1.14	0.00	0.00	1.33	1	0.00	0.00	1.14	0.86	0.00	0.00
Regal Fertilizer 32-3-12 50% PCU	PCU, Urea, DAP, MOP	High Nitrogen NPK blend with PCU for improved Nitrogen uptake efficiency and incremental P and additional K for instances where those nutrients, especially Potassium may become limiting factors affecting acceptable turfgrass quality.	1.84	0.92	0.17	0.69	1.47	0.73	0.14	0.55	1.29	0.64	0.12	0.48	1.1	0.55	0.1	0.41
Regal Fertilizer 23-3-5 50% PCU	PCU, Urea, DAP, MOP	NPK blend with PCU for improved Nitrogen uptake efficiency and incremental P and K for instances where those nutrients may become limiting factors affecting acceptable turfgrass quality.	1.32	0.66	0.17	0.28	1.06	0.53	0.14	0.23	0.92	0.46	0.12	0.20	0.79	0.4	0.1	0.17
Regal Fertilizer 18-24-12 50% PCU	PCU, Urea, DAP, MOP	PCU driven complete fertilizer blend for improved Nitrogen uptake efficiency and additional P and K. Suitable as a starter fertilizer at seeding/sprigging/sodding or for instances where soil test indicates that addition of P and K will improve turfgrass quality.	1.03	0.51	1.38	0.69	0.83	0.41	1.10	0.55	0.72	0.36	0.96	0.48	0.62	0.31	0.83	0.41

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Mineral Blends			250 Lb. / Acre				200 Lb. / Acre				175 Lb. / Acre				150 Lb. / Acre			
Fertilizer	Nutrition Source	Product Features	N	SRT	P	K	N	SRT	P	K	N	SRT	P	K	N	SRT	P	K
Regal Fertilizer 11-22-22	Urea, DAP, MOP	Cost-effective starter fertilizer driven by Urea. Also suitable for situations where soil tests indicate that P and K are limiting factors affecting acceptable turfgrass quality.	0.63	0.00	1.26	1.26	0.51	0.00	1.01	1.01	0.44	0.00	0.88	0.88	0.38	0.00	0.76	0.76
Regal Fertilizer 16-4-8 with Minors	Urea, DAP, MOP	NPK blend with Urea for increased growth and recovery along with incremental P and K for instances where those nutrients may become limiting factors affecting acceptable turfgrass quality.	0.92	0.00	0.23	0.46	0.73	0.00	0.18	0.37	0.64	0.00	0.16	0.32	0.55	0.00	0.14	0.28
Regal Fertilizer 13-8-12 with Minors Grow-In & Sod Blend	UF, MU, DAP, SOP, Sul-Po-Mag	This "Grow-In & Sod" blend offers a complete nutrient analysis with both quick and slowly available Nitrogen, Phosphorus, Potassium, as well as added Sulfur, Magnesium, Iron and Manganese to help promote young plants. Music City Gold used as the filler to provide biosolids to improve establishment.	0.75	0.00	0.46	0.69	0.06	0.00	0.37	0.55	0.52	0.00	0.32	0.48	0.48	0.00	0.28	0.41

Enhanced Phosphorous and/or Potassium Blends			250 Lb. / Acre				200 Lb. / Acre				175 Lb. / Acre				150 Lb. / Acre			
Fertilizer	Nutrition Source	Product Features	N	SRT	P	K	N	SRT	P	K	N	SRT	P	K	N	SRT	P	K
Regal Fertilizer 8-22-22 w/ Shamrock®	DAP, MOP	A high P and K fertilizer with enough Urea to promote some growth and recovery especially when soil test indicate P and K are limiting factors affecting turfgrass quality. Shamrock® phosphorus enhancing technology maximizes P utilization.	0.46	0.00	1.26	1.26	0.37	0.00	1.01	1.01	0.32	0.00	0.88	0.88	0.28	0.00	0.76	0.76



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Greens Grade Blends			200 Lb. / Acre				175 Lb. / Acre				150 Lb. / Acre				100 Lb. / Acre			
Fertilizer	Nutrition Source	Product Features	N	SRT	P	K	N	SRT	P	K	N	SRT	P	K	N	SRT	P	K
Regal GG 23-4-8	MU, UREA, AS, MAP, SOP, MINORS	Greens grade fertilizer driven by Methylene Urea. Ammonium Sulfate supplies quickly available Nitrogen while MAP and SOP supply incremental Phosphorous and more Potassium for instances where a soil test shows that K may be a limiting factor affecting acceptable turfgrass quality.	1.06	0.21	0.18	0.37	0.92	0.18	0.16	0.32	0.79	0.16	0.14	0.28	0.53	0.11	0.09	0.18
Regal GG 18-3-18	MU, AS, MAP, SOP	Greens grade fertilizer driven by Methylene Urea. Potassium from Sulfate of Potash for increased solubility and turfgrass safety. Incremental Phosphorous and enough Potassium for instances where a soil test shows tht K is a limiting factor affecting acceptable turfgrass quality.	0.83	0.66	0.14	0.83	0.72	0.58	0.12	0.72	0.62	0.50	0.10	0.62	0.41	0.33	0.07	0.41
Regal GG WDG 12-24-8	MU, AMS, MAP, SOP, S, Fe, Mn, Mo	Dispersing granule technology provides a homogeneous greens grade (75 SGN) starter fertilizer excellent for early season application and applications around seasonal cultural practices. This high phosphorus fertilizer utilizes monoammonium phosphate to provide 100% of the plant available phosphorus. With about 60% of the nitrogen being slowly available, this product promotes quick plant growth and continues to feed for up to 12-16 weeks. This premium fertilizer includes sulfur, iron, manganese and molybdenum.	0.55	0.28	1.10	0.37	0.48	0.24	0.96	0.32	0.41	0.21	0.83	0.28	0.28	0.14	0.55	0.18
Regal GG WDG 0-0-12	Sulfate of Potash Magnesia, Magnesium oxide, 12% Sulfur	Water dispersing granule technology offers a homogeneous greens grade fertilizer that breaks down quickly in the tightest turfgrass canopies. This high magnesium product quickly corrects deficiencies while also offering supplemental potassium and sulfur.	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.48	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.27
Regal GG 5-20-25 w/ Shamrock®	MAP, SOP	Greens grade fertilizer excellent for instances where a soil test shows that Phosphorous and Potassium are limiting factors affecting acceptable turfgrass quality. Shamrock enhances the uptake efficiency of applied Phosphorous and Potassium supplied by Sulfate of Potash offers increased solubility and turfgrass safety.	0.23	0.00	0.92	1.15	0.20	0.00	0.80	1.00	0.17	0.00	0.69	0.86	0.11	0.00	0.46	0.57
Regal GG SOP 0-0-50	0-0-50 + 17% Sulfur	100% Sulfate of Potash greens grade fertilizer. Excellent source of Sulfur and Potassium in instances where a soil test shows that S and K will be limiting factors affecting acceptable turfgrass quality.	0.00	0.00	0.00	2.30	0.00	0.00	0.00	2.01	0.00	0.00	0.00	1.72	0.00	0.00	0.00	1.15
Regal GG 0-0-22 Gyp-Sop	Gypsum + SOP	A greens grade combination of gypsum and sulfate of potash to provide calcium, sulfur and potassium.	0.00	0.00	0.00	1.01	0.00	0.00	0.00	1.01	0.00	0.00	0.00	0.76	0.00	0.00	0.00	0.51
Polymer Coated SOP	0-0-47 (SOP)	Controlled release polymer coated sulfate of potash in a micro prill for turf and ornamental applications, including golf course putting greens. Potassium is released over a period of time based on osmosis and diffusion through the polymer coating in order to maximize plant uptake and minimize waste/loss to the environment.	0.00	0.00	0.00	2.16	0.00	0.00	0.00	1.89	0.00	0.00	0.00	1.62	0.00	0.00	0.00	1.08
Nature Safe® 8-3-5 Super Fine	Feather meal, meat and bone meal, blood meal, langbeinite	This Organic Fertilizer is made with feather meal, meat and bone meal, blood meal and langbeinite. You can expect to see results in 7 to 10 days and nitrogen release for seven to eight weeks.	0.37	0.33	0.14	0.23	0.32	0.29	0.12	0.20	0.28	0.25	0.10	0.17	0.18	0.17	0.07	0.11



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RegalStar II® Blends			200 Lb. / Acre			
Fertilizer	Nutrition Source	Product Features	N	SRT	P	K
RegalStar® II 38-0-0 100% Blue Chip™	UF	The best granular applied pre-emergent herbicide. Formulated to apply 2.0 lbs. A.I. Oxadiazon and 0.4 lbs. A.I. Proflaminate at a 200 lb./Acre spread rate. 100% BlueChip™ Nitrogen. Nitrogen release from microbial activity matches the growth curve and nutrient requirement of turfgrass.	1.75	1.75	0.00	0.00
RegalStar® II 30-0-0 100% Blue Chip™	UF	The best granular applied pre-emergent herbicide. Formulated to apply 2.0 lbs. A.I. Oxadiazon and 0.4 lbs. A.I. Proflaminate at a 200 lb./Acre spread rate. Nitrogen supplied 100% from BlueChip™. Nitrogen release from microbial activity matches the growth curve and nutrient requirement of turfgrass.	1.38	1.38	0.00	0.00
RegalStar® II 22-0-11 100% Blue Chip™	UF, MOP	The best granular applied pre-emergent herbicide. Formulated to apply 2.0 lbs. A.I. Oxadiazon and 0.4 lbs. A.I. Proflaminate at a 200 lb./Acre spread rate. Nitrogen supplied 100% from BlueChip™. Formulated to be applied at 200 lb./Acre and supply 1 lb. N and 0.5 lb. K in instances where a soil test shows that K will become a limiting factor affecting acceptable turfgrass quality.	1.01	1.01	0.00	0.51
RegalStar® II 5-20-25 (90 sgn)	MAP, SOP	The best granular applied pre-emergent herbicide. Formulated to apply 2.0 lbs. A.I. Oxadiazon and 0.4 lbs. A.I. Proflaminate at a 200 lb./Acre spread rate. This small particle size is perfect for perfect for dense turf such as tee boxes, green surrounds and approaches, and athletic fields. *NOT LABELED FOR GOLF PUTTING GREENS.	0.23	0.00	0.92	1.15

Ronstar & Lasar® Blends			200 Lb. / Acre			
Fertilizer	Nutrition Source	Product Features	N	SRT	P	K
Regal Ronstar 1% 30-0-0 100% Blue Chip™	UF	Formulated to apply 2.0 - 3.0 lbs. A.I. Oxadiazon at 200 - 300 lb./Acre spread rates. Nitrogen supplied 100% from BlueChip™. Nitrogen release from microbial activity matches the growth curve and nutrient requirement of turfgrass.	1.38	1.38	0.00	0.00
Lasar (Dimension®) .25% 22-0-11 50% Blue Chip™	UF, Urea, MOP	Formulated to apply 0.50 lbs. A.I. Dimension® at a 200 lb./Acre spread rate. BlueChip™ driven blend with enough Urea for quick greening and growth. Formulated to be applied at 200 lb./Acre and supply 1.0 lb. N and 0.5 lb. K in instances where a soil test shows that K will become a limiting factor affecting acceptable turfgrass quality.	1.01	0.51	0.00	0.51
Lasar (Dimension®) .125% 20-0-0 50% PCU	PCU, Urea	Formulated to apply 0.25 lbs. A.I. Dimension® at a 200 lbs./Acre spread rate. Polymer coated urea improves nitrogen use efficiency and provides 6-8 week feed after application.	0.92	0.46	0.00	0.00



REGAL RONSTAR

RegalStar® II

Find your personal Regal Representative at the "Contact Us" section of RegalChem.com



Regal Fertilizers

N - Nitrogen

SRT - Slow Release Technology

P - Phosphorus

K - Potassium

Echelon® Blends			200 Lb. / Acre			
Fertilizer	Nutrition Source	Product Features	N	SRT	P	K
Echelon® 19-0-0 75% Blue Chip™	UF, Urea	Echelon consists of sulfentrazone and prodiamine to provide selective PRE and POST-emergence control of annual grasses, broadleaf weeds, and sedges. This BlueChip™ driven blend provides season-long nitrogen release with enough urea to provide quick greening and growth after application. Formulated to be applied at 225 lbs./Acre will supply right at 1.0 lb Nitrogen per 1000 sq ft.	0.98	0.74	0.00	0.00
Echelon® 14-0-0 50% MU	Urea, MU	Echelon consists of sulfentrazone and prodiamine to provide selective PRE and POST-emergence control of annual grasses, broadleaf weeds, and sedges. This methylene urea/urea blend provides maximum growth, recovery, and residual greening of turfgrass. Formulated to be applied at 225 lbs./Acre will supply 0.72 lbs Nitrogen per 1000 sq ft.	0.37	0.00	0.00	1.10

RegalKade® Blends			200 Lb. / Acre			
Fertilizer	Nutrition Source	Product Features	N	SRT	P	K
RegalKade® .50 22-0-11 75% Blue Chip™	UF, Urea, MOP	Formulated to apply 1.0 lbs. A.I. Prodiamine at a 200 lb./Acre spread rate. BlueChip™ driven blend with enough Urea for quick greening and growth. Formulated to be applied at 200 lb./Acre and supply 1.0 lb. N and 0.5 lb. K in instances where a soil test shows that K will become a limiting factor affecting acceptable turfgrass quality.	1.01	0.76	0.00	0.51
RegalKade® .50 8-0-24	Urea, MOP	Formulated to apply 1.0 lbs. A.I. Prodiamine at a 200 lb./Acre spread rate. Urea based fertilizer with Potassium for Fall applications and for instances where soil test potassium is a limiting factor affecting turfgrass quality.	0.37	0.00	0.00	1.10
RegalKade® .50 0-0-7	MOP	Formulated to apply 1.0 lbs. A.I. Prodiamine at a 200 lb./Acre spread rate. Incremental Potassium for instances where soil tests indicate K may become a limiting factor affecting turfgrass quality.	0.00	0.00	0.00	0.32
RegalKade® .37 21-3-5	PCU, Urea, DAP, MOP	Formulated to apply 0.75 lbs. A.I. Prodiamine at a 200 lb./Acre spread rate. NPK blend with PCU for improved Nitrogen uptake efficiency and incremental P and K for instances where those nutrients may become limiting factors affecting acceptable turfgrass quality.	0.96	0.48	0.14	0.23

Building a custom blend fertilizer has never been easier with the help of the Regal Report!

Your Regal representative can help you create a custom blend fertilizer that provides exactly what you need for your site.





Regal Fertilizers

N - Nitrogen

SRT - Slow Release Technology

P - Phosphorus

K - Potassium

Regal Nursery Fertilizer Blends

Fertilizer	Nutrition Source	Product Features
18-5-10 w/ Minors 3-4 Month	Polymer coated nutrients	Blend of controlled release fertilizer to deliver balanced nutrition over 3-4 months. Exact length of release dependent on temperature.
18-5-10 w/ Minors 6-8 Month	Polymer coated nutrients	Blend of controlled release fertilizer to deliver balanced nutrition over 6-8 months. Exact length of release dependent on temperature.
18-5-10 w/ Minors 10-12 Month	Polymer coated nutrients	Blend of controlled release fertilizer to deliver balanced nutrition over 10-12 months. Exact length of release dependent on temperature.
19-5-19 Flower Color	UF, MU, DAP, SOP, Minors	Seasonal color fertilizer designed to fit Spring/Summer applications for season long feed.
14-10-21 w/Minors Flower Color	MU, MAP, SOP, Minors	Seasonal color fertilizer designed to fit Fall/Winter applications for season long feed.
13-7-7 w/ Minors Wintergreen	UF, MU, DAP, SOP, Minors	50% BlueChip™/50% MU balanced fertilizer for Winter applications on evergreen ornamentals to provide and sustain vibrant color through Spring.
13-4-4 w/ Minors Spring Green	MU, UF, DAP, SOP, Sul-Po-Mag, Minors	A balanced blend of nitrogen, phosphorus, potassium and plenty of minor nutrients to stimulate growth and color from early spring to summer.
12-4-8	UF, Urea, DAP, MOP	Landscape bedding fertilizer driven by 50% BlueChip™



Other Granular Fertilizers and Soil Amendment	Product Features	PKG	Rate Range*
Ammonium Sulfate 21-0-0	Lower analysis granular nitrogen fertilizer for quick greening and growth.	50 LB/BG	-
Diammonium Phosphate 18-46-0	The most widely used phosphate fertilizer among growers today.	50 LB/BG	-
Gypsum-Micro Pellet	Micro-pelletized Gypsum.	50 LB/BG	-
Lime - Micro Pellet	Micro-pelletized Lime.	50 LB/BG	-
Lime - Pro Select	Pelletized Lime.	50 LB/BG	-
Music City Gold 4-4-00	Music City Gold is manufactured by Metro Water Services in Nashville, TN. It is made from heat-dried, natural microbes that are used to clean water. With an analysis of 4-4-0 + Minors, it makes an excellent natural fertilizer for a wide variety of plants.	50 LB/BG	-
Muriate Of Potash MOP 0-0-60	High analysis granular potassium fertilizer.	50 LB/BG	-
Urea 46-0-0	Highest analysis, efficient, granular Nitrogen fertilizer.	50 LB/BG	-
Verde-Cal® (Course)	Calcitic limestone combined with thCa, [™] an organic complexing agent, converts insoluble Calcium (Ca) compounds to soluble and available Calcium (Ca).	50 LB/BG	5 - 10 LB/M OR AS NEEDED
Verde-Cal® (Greens)	Calcitic limestone combined with thCa, [™] an organic complexing agent, converts insoluble Calcium (Ca) compounds to soluble and available Calcium (Ca).	50 LB/BG	5 - 10 LB/M OR AS NEEDED
Verde-Cal® G (Course)	Calcium sulfate (gypsum) combined with thCa, [™] an organic complexing agent.	50 LB/BG	5 - 10 LB/M OR AS NEEDED
Verde-Cal® G (Greens)	Calcium Sulfate (gypsum) is combined with thCa, [™] an organic complexing agent.	50 LB/BG	5 - 10 LB/M OR AS NEEDED
Verde-Cal® K Plus	A special blend of quality Sulfate of Potash and Verde-Cal G Enhanced Gypsum with L-Amino Acids. Contains thCa, [™] an organic complexing agent.	50 LB/BG	4 - 5 LB/M OR AS NEEDED

*Rate ranges are provided as a general reference. Please consult the label for actual rates prior to use.

CUSTOM APPLICATIONS



Fertilizer is an important investment. When you hire Regal for a custom fertilizer application, you will get a courteous, experienced professional applicator who will be respectful of your property.

All of Regal's custom fertilizer application trucks deliver:

- Expertise in spreading custom blended fertilizers for quality turfgrass
- Modern, well-maintained equipment
- Special flotation tires for minimal impact on turf.

The typical custom application is for 60-plus acres.

Contact the Regal team to learn more about how custom applications can help you.



“Maximize your Agronomics and Economics by getting a soil nutrient analysis and custom recommendation using the MLSN guidelines”

Get the scoop from **William Dunnivant**,
Regal's Agronomist &
Turfgrass Geek



@ regalchem.com/what-is-the-nitrogen-cycle



Liquid Nutrition & Bio-Stimulants	Derived From	Product Features	PKG
RegalGrow™ Humate	Leonardite: Humic; Fulvic Acid	Enhances the plant availability and absorption of nutrients in all soils, especially in soils where nutrient retention is low (low CEC). Also increases plant carbohydrates and stress tolerance.	2 X 2.5 GAL/CS
RegalGrow™ MAM 4-0-0	Urea, Soy Protein Hydrolysate, Magnesium Glucoheptonate, Manganese Glucoheptonate, Iron Glucoheptonate, Molasses	A liquid blend of molasses, amino acids, iron, magnesium, and manganese formulated to provide a balanced benefit to the plant and soil. Designed to improve plant growth and color during periods of stress, especially during low light conditions or cool temperatures.	2 X 2.5 GAL/CS
RegalGrow™ MaxiCal K 3-0-5	Calcium Nitrate, Potassium Nitrate, Iron Glucoheptonate, Magnesium Glucoheptonate, Manganese Glucoheptonate	Balanced micronutrient package with added potassium for drought stress tolerance, calcium for leaf rigidity and trac tolerance, enough nitrate nitrogen to enhance recovery, and incremental iron, magnesium, and manganese to maximize photosynthesis.	2 X 2.5 GAL/CS
RegalGrow™ Muscle®	Plant Amino Acids, Plant Poteins	Benefits overall plant health and aids in quick recovery from stresses including: disease, sunlight/shade issues, vertical mowing, top-dressing aerification, drought and poor drainage.	2 X 2.5 GAL/CS
RegalGrow™ Phosphite 0-0-21	Phosphorous Acid / Potassium Hydroxide	A flowable plant available potassium source for relief from overall plant stresses. Foliar and root absorption allows for application flexibility.	2 X 2.5 GAL/CS
RegalGrow™ Plant Response 3-0-7	Urea, Potassium Acetate	Nitrogen & potassium powered by PlantResponse technology. PlantResponse is an osmolyte which contributes to increased plant tolerance to abiotic stresses such as heat, drought, and salinity. PlantResponse technology improves chlorophyll content and photochemical efficiency, mitigates cell damage from abiotic stress, and improves overall plant quality.	2 X 2.5 GAL/CS
Liquical™	Calcium Nitrate	For use in a balanced fertility program for turf, landscapes and nursery crops that require calcium.	2 X 2.5 GAL/CS 30 GAL/DR
Maxigreen II®	Chelated Micronutrients	MaxiGreen II® is a micronutrient blend that aids in chlorophyll production for better color and plant vigor. When applied to either plant foliage or watered into the soil, plant color improves within hours.	2 X 2.5 GAL/CS 30 GAL/DR 250 GAL/TOTE
Multigreen II®	Chelated Micronutrients	MultiGreen II® is a micronutrient blend that aids in chlorophyll production and increases color and plant vigor. When applied to either plant foliage or watered into the soil, plant color improves within hours.	2 X 2.5 GAL/CS 30 GAL/DR 250 GAL/TOTE
RegalCrown®	Root Growth Stimulant	Regal Crown® stimulates root growth and development of turf grasses and broadleaf plants. Root growth stimulation naturally improves nutrient and water uptake, positively impacting overall plant health.	1 GAL/CT 2 X 1 GAL/CS
Turf Power™	Vermicompost Extract	Turf Power™ improves the physical and biological aspects of the soil and a plant's root zone. Improves soil health and subsequently the health, vigor and strength of plants.	2 X 2.5 GAL/CS 55 GAL/DR

To learn more, visit RegalChem.com and talk to your Regal Representative.

Liquid Nutrition & Bio-Stimulants	Derived From	Product Features	PKG
RegalGrow™ 28-0-0 LiquiGreen™	Methylene Urea, Urea Triazone Solution	A flowable, controlled release (microbial degradation) high analysis nitrogen source for foliar uptake and stability in the soil. Increases microbial activity and improves soil tilth at all rates.	2 X 2.5 GAL/CS 30 GAL/DR 250 GAL/TOTE BULK
RegalGrow™ 18-0-0 KSN	Urea, Urea Ammonium Nitrate, NBNX Triazone SRN, Stabilized with NBPT & DCD	High analysis nitrogen source comprised of multiple forms of quickly available nitrogen for immediate plant response as well as slowly available nitrogen in the form of stabilized urea and urea triazone for long-lasting color, quality, growth, and recovery.	2 X 2.5 GAL/CS
RegalGrow™ 16-3-10	Urea, Potassium Hydroxide, Phosphoric Acid	A complete fertility package for total plant health at all rates. The N:P:K ratio allows all nutrients to work together to improve plant uptake and reduce waste.	2 X 2.5 GAL/CS
RegalGrow™ 12-0-0 Fe & Mn	Urea, Iron Glucophetonate, Manganese Glucoheptonate	A flowable micronutrient package complete with urea to enhance and improve color and quality when applied alone, or in conjunction with growth regulators and pesticides.	2 X 2.5 GAL/CS 30 GAL/DR
RegalGrow™ 0-30-0 with Shamrock®	Phosphoric Acid	A flowable, high analysis phosphorous source for improved energy (ATP and ADP) and DNA production and utilization. Shamrock® technology allows for complete soil availability, and maximum plant utilization of applied phosphorous for enhanced overall nutrient uptake.	2 X 2.5 GAL/CS 30 GAL/DR 250 GAL/TOTE BULK
RegalGrow™ 0-20-20 with Shamrock®	Phosphoric Acid, Potassium Hydroxide	A flowable, high analysis phosphorous and potassium source for enhanced stress relief, water utilization, and recovery. Shamrock® technology allows for complete soil availability, and maximum plant utilization of applied phosphorous and enhanced overall nutrient uptake.	2 X 2.5 GAL/CS 30 GAL/DR 250 GAL/TOTE BULK
RegalGrow™ 0-0-25	Potassium Thiosulphate	A flowable high analysis potassium liquid fertilizer that provides rate flexibility. It quickly relieves plant stress at lower rates, or can be used to address soil-test-potassium deficiencies at higher rates.	2 X 2.5 GAL/CS
RegalGrow™ 6-0-14	Urea, Potassium Acetate	A flowable potassium source with urea nitrogen to provide the ideal potassium to nitrogen ratio to achieve maximum plant-utilization of nutrients for stress relief and overall plant health.	2 X 2.5 GAL/CS
RegalGrow™ Bridle® 30-0-0	Patented Polymer Technology, Methylene Urea, Urea Triazone Solutions	RegalGrow Bridle is a Urea Triazone based nutrient system that binds with micro and macronutrients in the soil, making all nutrients readily available to the plant.	2 X 2.5 GAL/CS
RegalGrow™ Bridle® PAK	Patented Technologies	Innovative fertility "PAK" designed for use on landscape ornamentals including annual and perennial plants, shrubs, and trees.	1 CS
RegalGrow™ CalMn 4-0-0	Calcium Nitrate, Magnesium Glucoheptonate, Manganese Glucoheptonate, Boric Acid	Balanced micronutrient package with added calcium for leaf rigidity, boron to enhance plant utilization of calcium, magnesium, and manganese to maximize photosynthesis, and incremental nitrogen to stimulate turfgrass recovery.	2 X 2.5 GAL/CS
RegalGrow™ Harness® 30-0-0	Harness Technology, Methylene Urea, Urea Triazone Solution	Harness is a Urea Triazone based nutrient delivery system that binds with the micro and macronutrients in the soil, making all nutrients readily available for the plant.	2 X 2.5 GAL/CS 30 GAL/DR 250 GAL/TOTE



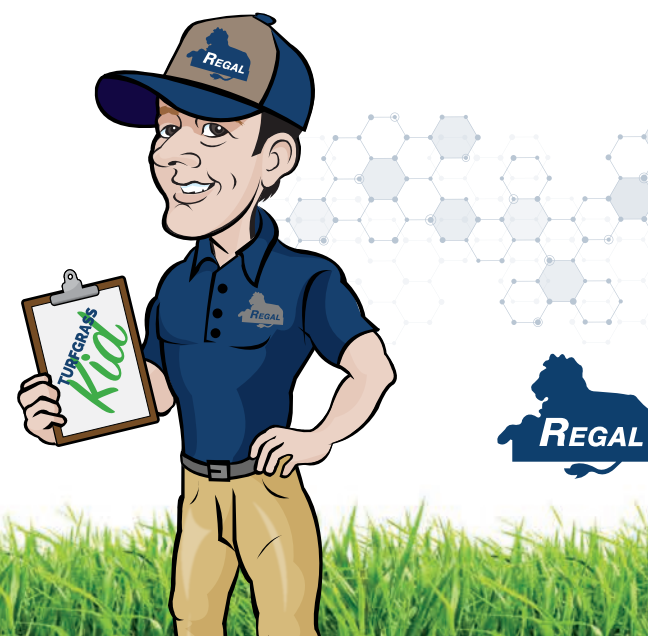
Water Soluble Fertilizers	Product Features	PKG
RegalGrow™ Solugreen™ 15-0-15	High nitrate formula contains 10.5% calcium with added magnesium for balanced nutrition.	25 LB/BG
RegalGrow™ Solugreen™ 20-10-20	High ratio of nitrate to ammoniacal nitrogen that is a well suited formula for plant beds and soil-less media.	25 LB/BG
RegalGrow™ Solugreen™ 20-20-20	Balanced high analysis formula for use on a wide variety of turf and landscape applications.	25 LB/BG
RegalGrow™ Solugreen™ 25-5-20	Specifically formulated for the nutritional needs of Bermudagrass, especially Bermudagrass greens.	25 LB/BG
RegalGrow™ Solugreen™ 28-8-18	Specifically formulated for the nutritional needs of Bentgrass, especially Bentgrass greens.	25 LB/BG
RegalGrow™ Solugreen™ Potassium Nitrate Plus 13-0-44	Highly soluble powder of readily available nitrogen, potassium and minors package.	25 LB/BG
Soluble Muriate of Potash 0-0-62	Sprayable potassium fertilizer for liquid applications.	50 LB/BG
Ferrous Sulfate	Sprayable form to provide iron and sulfur for quick greening of plants.	50 LB/BG
Magnesium Sulfate	Sprayable formulation to correct magnesium deficiencies.	55 LB/BAG

TurfGrass Kid Tip:

“The RegalGrow™ Solugreen™ product line offers a simplistic approach at applying a well balanced fertilizer for different plant species. Solugreen™ fertilizers dissolve easily in water and can be applied as a liquid drench, or foliar spray. In addition to providing the basic fertilizer components of Nitrogen, Phosphorus and Potassium, Solugreen™ products also provide many micronutrients to promote plant health.”

Contact your Regal Representative to learn more, and to create a custom fertilizer program to best fit your needs.

RegalChem.com



Wetting Agents	Product Features	PKG	Rate Range*
AcidipHy® Liquid	A unique blend of acidifying agents to lower the soil and soil solution's pH while utilizing and/or releasing soil nutrients that are present but previously not available to the soil or plants.	2 X 2.5 GAL/CS	1 - 4 QT/AC
Aqaac™ Liquid	A pre-mixed combination of hydrating soil surfactants and penetrating soil wetting agents formulated to provide better infiltration of applied water and a more uniform soil moisture profile.	2 X 2.5 GAL/CS	2 - 4 OZ/M
AQM® Pellets	A balanced formulation of a highly refined, enriched kelp extract and a surfactant to be used in conjunction with proven turfgrass programs. Apply when hand watering to increase water infiltration and encourage root development.	12 X 8 OZ PELLETS/BOX	—
Aqua-aid® Pellets	All purpose pellet to help wet hydrophobic soils, reduce water surface tension, increase water penetration, and provide uniform wetting.	24 X 8 OZ PELLETS/BOX	—
Aqua-Root® Pellets	The combination of Aqua-Aid penetrant and humate to increase soil CEC and nutrient availability and uptake.	24 X 6 OZ PELLETS/BOX	—
Aquifer® Pellets	Hydrating and rewetting pellet for managing localized dry spots, improving soil water penetration, increasing water retention, and provide uniform wetting.	24 X 8 OZ PELLETS/BOX	—
Excalibur™	A rapid response soil surfactant that helps achieve consistent hydration and rehydration to provide unparalleled soil moisture responsiveness.	2 X 2.5 GAL/CS	1.5 - 4.0 OZ/M
FWY ISP™	Cost-effective formulation of soil wetting agents designed to enhance the penetration and infiltration of applied water through irrigation systems.	2 X 2.5 GAL/CS	1 - 2 QT/AC
Hydra 30 Plus™	Soil surfactant with a vitamin package to restore uniform hydration throughout the root zone and aid turf in combating stress and speeding up recovery.	2 X 2.5 GAL/CS	3 OZ/M
OARS® HS Liquid	Soil hydrating surfactant, is a combination of the patented organic acid redistribution system, OARS, and multi-branched hydrating chemistry.	2 X 2.5 GAL/CS	4 - 8 OZ/M
OARS® Liquid	The corrective approach to remove the build-up of organic acids that coat the surface of sand particle which cause water repellency and localized dry spot conditions.	2 X 2.5 GAL/CS	6 - 7 OZ/M
OARS® Pellets	The corrective approach to remove the build-up of organic acids that coat the surface of sand particle which cause water repellency and localized dry spot conditions.	12 X 8 OZ PELLETS/BOX	—
OARS® PS Liquid	Soil penetrating surfactant, is a combination of the patented organic acid redistribution system, OARS, and multi-branched penetrant chemistry.	2 X 2.5 GAL/CS	4 - 8 OZ/M
PBS 150® Granular	A long-term surfactant utilizing a unique multi-branched molecular construction to address the source of performance loss – biodegradation of the surfactant molecule by soil microbes.	50 LB/BAG	2.5 - 4 LBS/M
PBS 150® Liquid	A long-term surfactant utilizing a unique multi-branched molecular construction to address the source of performance loss – biodegradation of the surfactant molecule by soil microbes.	2 X 2.5 GAL/CS	5 - 8 OZ/M
Proportioner	Pellet applicator.	1 EACH	—
Guardian™	A non-ionic soil wetting agent that improves soil surface infiltration to prevent and control localized dry spot, and provides even soil wetting after irrigation or rainfall.	2 X 2.5 GAL/CS 30 GAL/DR	6 - 10 OZ/M
Oasis XL®	Soil surfactant blend that works to prevent and control localized dry spots, improve water infiltration, improve distribution of water in the root zone and drainage of compacted or hydrophobic soils.	2 X 2.5 GAL/CS 30 GAL/DR	3 - 16 OZ/M
Tension Aid™ Liquid	Turf wetting agent to improve water penetration for golf course greens and fairways. Recommended as a preventive program to aid against localized dry spot.	2 X 2.5 GAL/CS 30 GAL/DR	1 - 2 OZ/M

*Rate ranges are provided as a general reference. Please consult the label for actual rates prior to use.



Gene Responders	Product Features	PKG	Rate Range*
All-in-One	Plant health product which promotes a plants natural defense system to increase overall plant health and pest tolerance.	3 X 2 X 1 QT/CS	16 OZ/AC
Tenant®	Plant health product that when applied to the soil it helps a plant's root system repel and/or resist nematodes.	2 X 1 QT/CT 3 X 2 X 1 QT/CS	32 OZ/AC

PAK Contains:

Bridle® PAKS:

Available in 800 sq ft. & 12,000 sq ft. paks



RegalGrow™ Bridle® 30-0-0: Polymer technology that provides nutrients to the plant as needed.

RegalGrow™ 0-20-20 w/ Shamrock®: Improves plant health, enables nitrogen absorption and provides efficient season long feeding.

Cure and Sterling®: Increases overall plant health and pest tolerance.

Micronutrients with Regal Crown®: Minimize nutrient deficiencies, hastens root development, improves color and maximizes water utilization.

Spray Adjuvants & Other Products	Product Type	Product Features	PKG	Rate Range*
Color-Aide™	pH Buffer	Spray adjuvant, spreader sticker, pH buffer with color indicator. Improves coverage and performance of pesticides.	1 GAL/CT 4 X 1 GAL/CS	SEE LABEL
Di-Aqua®	Spray Adjuvant	Non-ionic surfactant/wetting agent for chemical applications.	1 GAL/CT 4 X 1 GAL/CS	1 - 2 PT/100 GAL OF H2O
Di-Aqua® MSO	Spray Adjuvant	DiAqua® MSO (Methylated Seed Oils) is a multi-component spray adjuvant developed to maximize the performance of some post-emergent herbicides.	1 GAL/CT 4 X 1 GAL/CS	1 PT - 5 QT/AC
Di-Aqua® Plus	Spray Adjuvant	Non-ionic wetting agent plus a bio-activator for use with certain herbicides, especially Glyphosate and other post emergence herbicides.	1 GAL/CT 4 X 1 GAL/CS	4 QT/100 GAL OF H2O
Di-Aqua® PS	Spray Adjuvant	Non-ionic surfactant specifically designed for tree trunk applications to ensure uniform distribution and absorption of tank mix partners.	1 GAL/CT 4 X 1 GAL/CS	8 - 48 OZ 100 GAL OF H2O
Foam-X®	Defoamer	10% concentrate silicone defoamer to control excess foam in spray solutions.	1 PT/CT 12 X 1 PT/CS	0.5 - 2 OZ/100 GAL OF H2O
Fomalot-T Foam Marker	Foam Marker	Concentrate foam solution for turf foam markers.	1 GAL/CT 4 X 1 GAL/CS	SEE LABEL
Nuway™ Ball Wash & Tank Cleaner	Tank Cleaner / Ball Wash	Combines the properties of stain removal with detergent action for ultimate spray tank cleaning and also resists going rancid as ball washer solution.	1 GAL/CT 4 X 1 GAL/CS	FOR BALL WASHERS 1 PT/1 GAL H2O USE AS TANK CLEANER 1 PT/50 GAL H2O

*Rate ranges are provided as a general reference. Please consult the label for actual rates prior to use.



Colorants & Paints	Product Type	Product Features	PKG	Rate Range*
Dura Stripe Paint	Turf Paint	Turf marking paint available in red, yellow, white, and other miscellaneous colors. Will not harm, kill or brown any type of grass.	12 X 18 OZ/CS	—
Dy'On® Black	Black Colorant	Deep black pond/lake dye.	1 GAL/CT 4 X 1 GAL/CS	1.5 - 2 QT PER SURFACE AREA OF H2O 4 FEET DEEP
Dy'On® Blue	Blue Colorant	Temporary spray indicator dye. Also used to temporarily color lakes and ponds.	1 GAL/CT 4 X 1 GAL/CS 30 GAL/DR	1 - 2 PT/100 GAL OF H2O FOR LAKES/PONDS: 1-2 QT PER ACRE FOOT OF H2O
Dy'On® Green	Green Colorant	Temporary spray indicator dye.	1 GAL/CT 4 X 1 GAL/CS	1 - 2 PT/100 GAL OF H2O
Endurant® Mulch Colorant	Mulch Colorant	Concentrated liquid pigment to instantly and inexpensively enhance mulch and pinestraw in the landscape setting.	1 QT/CT 5 GAL/PAIL	SEE LABEL
Endurant® Turf Paint Premium, FW & PR	Concentrated Turf Paint	Concentrated turf paint in three color options for long lasting green color on dormant turfgrass.	1 GAL/CT 4 X 1 GAL/CS; 5 GAL/PAIL; 250 GAL/TOTE	SEE LABEL
Endurant® TE Pigment	Turf Pigment	Turf pigment for improved color on non-dormant and semi-dormant turfgrass.	1 GAL 4 X 1 GAL/CS	SEE LABEL
Endurant® FLEX	Turf Pigment	Endurant® FLEX combines the benefits of a pigment, such as Endurant® TE for actively growing grass, with the benefits of a paint, such as Endurant® TC and the other shades of Endurant® paint, which are formulated for excellent pigmentation of dormant turf.	32 OZ/CT 12 X 32 OZ/CS	1-2 QT/AC
Endurant® Spray and Stay	Turf Pigment	Spray N Stay is a non-toxic binder that adds extra staying power to turf colorant pigments and paints to grass.	1 GAL/CT 4 X 1 GAL/CS	1-2 QT/AC

*Rate ranges are provided as a general reference. Please consult the label for actual rates prior to use.



DY'ON

ENDURANT®
TURF COLORANTS

Spreaders and Sprayers	Product Features
Spyker Spreader	Broadcast Spreader with 80 lb capacity and powder-coated frame.
Spyker Stainless Spreader	Broadcast Spreader with 80 lb capacity and stainless steel frame for added durability.
Jacto CD400 Backpack Sprayer (4 GAL)	4 Gallon backpack sprayer.
Birchmeier I5-K (3.5 GAL)	Heavy duty 3.5 Gallon backpack sprayer.
Spread-rite G Spreader	Handheld spreader for small, targeted, granular applications.
Spyker Ride-On Spreader	The Spyker Ride-on Spreader delivers consistency and speed for large fertilizer applications.

Miscellaneous	Product Features
Easy Marker Spray Paint Handle	Striping wand for upright use of inverted marking paint.
Regal Calibrator Jug	Graduated measuring bottle for quick sprayer calibration.
Regal Soil Sampler	Soil sampling/collecting probe.
Tubular Soil Probe 21"	Soil sampling/collecting probe.
6" Soil Profiler Sampler	6 Inch wide soil profiler.
Drum Pump - 30/55 GAL	Liquid drum pump that fits 30 and 55 gallon liquid chemical drums.
Regal Measuring Pitcher	64 oz graduated measuring pitcher for easy measuring and mixing.
Viro Fense™	Hand sanitizer and surface cleaner in one.
SureCan® Gas Cans	New generation fuel can.

Sprayer Calibration (Tank & Backpack)

1. Select the proper equipment for the job to be done. This includes nozzles, pumps, hoses, pressure regulators, etc...
2. Do not use pesticides during calibration. Dy'on® is recommended to aid in determining spray pattern, droplet size, coverage and pressure.
3. Calibrate properly and check calibration periodically.
4. Record all information.

TANK SPRAYER AND BACKPACK CALIBRATION:

(Flat fan nozzles and shower heads are generally used in broadcast applications, solid cone for spot treating.)

1. Measure a 20' x 50' area or 1000 ft² (For best accuracy, test areas of 1000 ft² are recommended. If doing an area less than 1000 ft², input that known area in ft² in the formula on the back of this page.)
2. Fill sprayer with water (and optional Dy'on®)
3. Using a stop watch, time the applicator spraying the 1000 ft² area. (Keep walking speed and pressure constant. Use of Dy'on® will show light heavy a skipped areas of application.) Do more than once and record the average time.
4. Now spray into a measured container for the amount of time you recorded spraying 1000ft² and record in fl oz. Divide your fl oz caught by 128 and you will now know your gal/1000 ft². To determine gal/Acre. Multiply your spray volume gal/1000 ft² by 43.56. (Formula and useful conversion on back)

EXAMPLE -

After spraying an area of 1000 ft² it took us 1 min to apply that area. We did a catch into our container for 1 min and measured 256 fl oz. Now we can calculate gal/1000 ft²; $256 \div 128 = 2$ gal/1000ft²

DETERMINING AMOUNT OF PRODUCT TO ADD TO SPRAY SOLUTIONS PER TANK:

Calculation / 1000 ft² -

1. Amount of water in tank (gal) ÷ Spray volume (gal/1000ft²) = The amount of area you will cover with that volume in 1000ft².
Example; We have a 200 gallon tank that has been calibrated to put out 2 gal/1000 ft². $200 \div 2 = 100$ (1000ft²)
2. Label rate per 1000 ft² x coverage area in 1000 ft² = amount of product in tank.

Calculation / Acre -

1. Amount of water in tank (gal) ÷ Spray volume (gal/1000 ft²) ÷ 43.56 = The amount of area you will cover with that volume in Acres.
Example; We have a 200 gallon tank that has been calibrated to put out 2 gal/1000 ft². $200 \div 2 = 100$ (1000 ft²) ÷ 43.56 = 2.295 Acres.
2. Label rate per 1000 ft² x 43.56 x coverage area in Acres = amount of product in tank.

To learn more, visit RegalChem.com and talk to your Regal Representative.

Regal® Seasonal Color Program

Spring/Summer Flowers-Landscape

Fall/Winter Flowers-Landscape

The intent of this program is to give the plantings the best nutrition and pest management program, and to facilitate ease of application.

Base Fertilizer: Regal Bedding Fert. 19-5-19 with Minors – incorporate 5-10 lbs per 100 sq. ft. evenly into the soil before planting

Base Herbicide: Regalkade®G at ½ lb. per 100 sq. ft. (4.5 lb. per 1000)

1st Drench: Imidacloprid 2F at 1.5 oz. per 100 gal.
 Systec® 1998 FL at 16 oz. per 100 gal.
 Resyst® at 16 oz. per 100 gal.
 Regal Crown® at 16 oz. per 100 gal.
 Maxigreen II® at 1 gal. per 100 gal.
 Muscle at 1 gal. per 100 gal.

2nd Drench: (6 weeks later)
 Systec 1998 FL at 16 oz. per 100 gal.
 Resyst at 16 oz. per 100 gal.
 Regal Crown at 10 oz. per 100 gal.
 Muscle at 1 gal. per 100 gal.

Planting Directions: **Step 1.** Incorporate the fertilizer into the soil prior to planting
Step 2. Plant flowers
Step 3. Add mulch/pine straw
Step 4. Apply Regalkade G
Step 5. Apply Drench 1 & 2 as listed above
Step 6. Sit back and enjoy vibrant and healthy color for the rest of the growing season



Notes:

In Season Diseases - apply ConSyst® at 5 oz per 10 to 20 gallons of water
In Season Insects - apply Avalon™ at 3 oz per 10 to 20 gallons of water

The intent of this program is to give the plantings the best nutrition and pest management program, and to facilitate ease of application.

Base Fertilizer: Regal Bedding Fert. 14-10-21 with Minors – incorporate 5-10 lbs per 100 sq. ft. evenly into the soil before planting

Base Herbicide: Regalkade®G at ½ lb. per 100 sq. ft. (4.5 lb. per 1000)

1st Drench: Imidacloprid 2F at 1.5 oz. per 100 gal.
 Systec® 1998 FL at 16 oz. per 100 gal.
 Resyst® at 32 oz. per 100 gal.
 Regal Crown® at 16 oz. per 100 gal.
 Maxigreen II® at 1 gal. per 100 gal.
 Muscle at 1 gal. per 100 gal.

2nd Drench: (6 weeks later)
 Systec 1998 FL at 16 oz. per 100 gal.
 Resyst at 16 oz. per 100 gal.
 Regal Crown at 10 oz. per 100 gal.
 Regal Solugreen® 15-0-15 at 5 lbs. per 100 gal.
 Muscle at 1 gal per 100 gal.

Planting Directions: **Step 1.** Incorporate the fertilizer into the soil prior to planting
Step 2. Plant flowers
Step 3. Add mulch/pine straw
Step 4. Apply Regalkade G
Step 5. Apply Drench 1 & 2 as listed above
Step 6. Sit back and enjoy vibrant and healthy color for the rest of the growing season



Notes:

In Season Diseases - apply ConSyst® at 5 oz per 10 to 20 gallons of water
In Season Insects - apply Avalon™ at 3 oz per 10 to 20 gallons of water

Contact your Regal Rep for program quantity and purchasing information



Based on Science, Balanced for Your Budget

The RegalREPORT™ is a proprietary technology solution developed by Regal Chemical. Using this tool, we help you develop the right program to keep turfgrass, landscape ornamentals, and nursery stock healthy, pest and weed free, and thriving all year long.

Comprehensive programs can **optimize both agronomics and economics**, ensuring you efficiently allocate financial resources, address stress factors, and enhance fertility.

To learn more, visit RegalChem.com and talk to your Regal Representative.

Regal Programs Cover:

- Soil testing and nutritional needs
- Weed, insect, and disease management programs
- Soil moisture management programs
- Plant health products and biostimulants
- Early Order Program utilization

ABOUT REGAL CHEMICAL

Regal Chemical Company was founded by James O. King in 1970. We provide quality agronomic solutions to four primary markets:

- **Golf**
- **Commercial and Residential Lawn Care**
- **Sports Fields**
- **Nurseries**

It is always our goal to provide exceptional agronomic and economic value, and the best service in the industry. We accomplish that through our products, programs, and people. At Regal, you will find a team of agronomists on-staff, answering questions and conducting independent research trials. Regal collaborates with educational institutions, industry leaders, and manufacturing partners to provide training and education to our customers.

Regal believes everyone in the Green Industry must be a steward of the environment. Along with agronomic benefits, the products and agronomic programs we recommend are environmentally friendly, as well as, beneficial to plants.

Regal is Proud to Partner With:



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