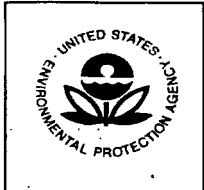


83070-9

12/8/2009

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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505P)
Ariel Rios Building
1200 Pennsylvania Ave., NW
Washington, D.C. 20460

EPA Reg. Number: 83070-9
Date of Issuance: 8 DEC 2009

NOTICE OF PESTICIDE:
 Registration
 Reregistration
(under FIFRA, as amended)

Term of Issuance: conditional
Name of Pesticide Product: Advan P + Q

Name and Address of Registrant (include ZIP Code):

Advan LLC.
300 Colonial Center Parkway, #230
Roswell, GA 30076

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA provided that you:

1. Submit and/or cite all data required for registration review/reregistration of your product when the Agency requires all registrants of similar products to submit data.
2. **NOTE:** This revised notice supercedes the registration notice dated October 6, 2009.
3. Submit the data listed below:
 - a. Within one year from the date of this registration notice, Storage Stability (830.6317) and Corrosion Characteristics (830.6320) studies must be submitted. It is recommended that the observations be made at 0, 3, 6, 9, and 12 month intervals.
 - b. Per the product chemistry review, adjust the % by weight of the Quinclorac alternate source to keep the nominal concentration the same as the label claim (see comment #3 in the 'Summary of Findings')
4. Make the following label revisions:
 - a. Revise "EPA REG. NO. 83070-" to "EPA REG. NO. 83070-9"

Continued on Page 2

Signature of Approving Official:
Joanne I. Miller
Registration Specialist
Herbicide Branch
Registration Division (7505P)
JSM

Date: 8 DEC 2009

2019

- b. Add appropriate net contents information to the front panel of the label.
- c. Per the acute toxicity review, the "If In Eyes" heading and associated text must be listed first in the First Aid statements.
- d. Per the acute toxicity review, the Note to Physician, "Probable mucosal damage may contraindicate the use of gastric lavage" is not required.
- e. Per the acute toxicity review, the Hazards to Humans and Domestic Animals section must read as follows:
"CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing."
- f. Revise the Personal Protective Equipment section to read as follows:

"PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemically resistant to this product are listed below. For more options, refer to category A on the EPA chemical resistance category selection chart.

Mixers, loaders, applicators and other handlers must wear:

- *Protective eyewear (goggles or face shield)
- *Long-sleeved shirt and long pants
- *Chemical-resistant gloves, such as butyl rubber > 14 mils, or neoprene rubber > 14 mils, or nitrile rubber > 14 mils
- *Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables **exist**, use detergent and hot water. Keep and wash PPE/**clothing** separately from other laundry."

Note: there are not separate sections for WPS and non-WPS uses.

- g. Revise "Advan LLC does not recommend or authorize..." to "Advan LLC does not intend..." on page 3.
- h. Revise the heading, "General Information" on page 4 to "Product Information." The word "general" in a section heading makes all the text within the section unenforceable.

- i. Revise the following use site information so that the label reads:

“Examples of such sites include, but are not limited to: grounds or lawns around residential and commercial establishments, (multi-family dwellings, military and other institutions, parks, airport grounds, schoolyards, picnic grounds, athletic fields, cemeteries, and golf courses) road-sides, sod farms, managed transportation and utility rights-of-way, rail and equipment yards, and public utility facilities (substations, tank farms, pumping stations, parking/storage areas, un-grazed fencerows).”

- j. Replace the last sentence of the ‘Irrigation and Rainfall’ section on page 6 with the following:

“If rainfall does not occur within 2-7 days after application, irrigate the treated area to 0.5 inches. Do not irrigate to the point of run-off. ”

- k. Replace the first sentence under the ‘Compatibility/Jar Test for Mix Components’ section on page 8 with the following:

“Add components in the following sequence using 2 teaspoons for each pound or 1 teaspoon for each pint of **the label listed application** rate per acre.”

- l. Replace “General Restrictions and Limitations” with “Precautions, Restrictions and Limitations.” Use of the word “General” in a section heading makes all text within that section unenforceable.

Additionally, move the ‘Use Precautions-Turfgrass’ section text on page 13 to fall under this section heading.

- m. List the pounds of active ingredient per gallon of product solution in the ingredient statement. Also, list the pounds of active ingredient per acre for all product application rates listed on the label (including Table 3).

- n. Remove the second paragraph “Combinations with MSMA...” under the ‘Turfgrass Tank-Mixes’ section on page 9 of the label as MSMA use on residential and non-crop turfgrass sites will not be allowed after December 31, 2012 (see the “Amendment to Organic Arsenicals RED” dated April 22, 2009).

- o. Revise “Avoid overlaps that will increase rates above those recommended.” to “Do not overlap applications that will increase rates above those listed on this label.” found on page 10.

Page 4 of 4
Advan P+Q
Registration Letter

p. Revise "Avoid application when winds may cause drift." to "Do not apply when wind is greater than 10 mph, as drift to non-target areas may occur." on page 10 of the label.

q. Revise the second sentence of footnote 1 under Table 1 so that it reads as follows:

"Do not reapply P+Q herbicide if control failure occurs following the application of full or split application rates. Change to a herbicide with a different mode of action."

4. Submit one (1) copy of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records.

Enclosure

5019

ADVAN P+Q

Herbicide providing selective Post and or Pre Emergent control of problem grasses and broadleaf in residential and nonresidential turfgrasses and other non-crop sites

ACCEPTED
with COMMENTS
In EPA Letter Dated:

8 DEC 2009

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No.

ACTIVE INGREDIENTS:

Prodiamine [N³,N³-Di-*n*-propyl-2,4-dinitro-6-(trifluoromethyl)-*m*-phenylenediamine] 32.5%

Quinclorac [3,7-Dichloroquinoline-8- carboxylic acid, 3,7-Dichloro-8-quinolinecarboxylic acid]..... 32.5%

OTHER INGREDIENTS 35.0%

TOTAL 100.0%

83070-9

KEEP OUT OF REACH OF CHILDREN CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have affected person sip a glass of water if able to swallow. • Do not induce vomiting unless told by a poison control center or doctor. • Do not give anything by mouth to an unconscious person.
IF ON SKIN OR CLOTHING	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 - 20 minutes. • Call a poison control center or doctor for treatment advice.
IF IN EYES	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15 - 20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
IF INHALED	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
Emergency phone numbers	(800) 222-1222 Poison Control Center (human health) (800) 858-7378 NPIC (animal health) (800) 424-9300 CHEMTREC (transportation and spills)
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage	

EPA Reg. No. 83070-

EPA Est. No.

NET CONTENTS: _____ lbs.

Manufactured For:
Advan LLC.
300 Colonial Center Parkway, #230
Roswell, GA 30076

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS: Caution: Harmful if inhaled or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Avoid breathing dust. Prolonged or frequently repeated skin contact, while mixing or handling the concentrated material, may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

WPS USES:

Mixers, loaders and applicators, and other persons who handle this pesticide for any use covered by the Worker Protection Standard (40 CFR part 170) – in general, agricultural-plant uses are covered – must wear:

- Long-sleeved shirt and long pants
- Chemical resistant gloves, such as butyl rubber >14 mils, or neoprene rubber > 14 mils, or nitrile rubber >14 mils (See instructions for Category A on the EPA chemical resistance category selection chart B you want other options.)
- Shoes plus socks

NON-WPS USES:

Mixers and loaders who handle this pesticide for any use NOT covered by the Worker Protection Standard (40 CFR part 170) – in general, only agricultural-plant uses are covered by the WPS – must wear:

- Chemical resistant gloves, such as butyl rubber >14 mils, or neoprene rubber > 14 mils, or nitrile rubber >14 mils (See instructions for Category A on the EPA chemical resistance category selection chart B you want other options.)

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

ENGINEERING CONTROLS STATEMENT

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

USER SAFETY RECOMMENDATIONS

Users should:

1. Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
2. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
3. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

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ENVIRONMENTAL HAZARDS

Quinclorac has properties and characteristics associated with chemicals detected in groundwater. The use of this chemical where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Prodiamine has low solubility in water. At the limit of solubility, this product is not toxic to fish. However, at concentrations substantially above the level of water solubility, it may be toxic to fish.

Keep out of lakes, ponds, and streams. Do not apply directly to water, areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with this labeling.

DO NOT apply this product by air or through any type of irrigation equipment.

Advan LLC does not recommend or authorize the use of this product in manufacturing, processing, or preparing custom blends with other products for application to turf.

DO NOT apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the specified area during application. For any requirement specific to your State or Tribe, consult the State/Tribal agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

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

- 1. Coveralls
- 2. Chemical resistant gloves, such as butyl rubber >14 mils, or neoprene rubber > 14 mils, or nitrile rubber >14 mils (See instructions for Category A on the EPA chemical resistance category selection chart B you want other options.)
- 3. Shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, nurseries, or greenhouses.

Professional applications to residential and nonresidential turf are not within the scope of the Worker Protection Standard.

Do not enter or allow others to enter the treated area until sprays have dried.

GENERAL INFORMATION

P+Q herbicide may be applied post-emergence or pre-emergence to residential and nonresidential turfgrasses and other non-crop sites (Refer to Table 1, 2, and 3) for the control of many broadleaf and grass weeds. Examples of such sites include, but are not limited to: grounds or lawns around residential and commercial establishments, multi-family dwellings, military, and other institutions, parks, airports, road-sides, schools, picnic grounds, athletic fields, houses of worship, cemeteries, golf courses, sod farms, managed transportation and utility rights-of-way, rail and equipment yards, and public utility facilities (substations, tank farms, pumping stations, parking/storage areas, un-grazed fencerows)

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HOW P+Q WORKS

Pre-emergent Control: P+Q controls susceptible weeds by preventing growth and development of newly germinated weed seeds. Weed control is most effective with P+Q when activated by at least 0.5 inches of rainfall, or irrigation, or shallow incorporation (1 to 2 inches) before weed seeds germinate and within 2-7 days following application. P+Q provides residual control of many grass and broadleaf weeds in:

- Established turfgrasses (excluding golf course putting greens), lawns and sod nurseries;
- Managed transportation and utility rights-of-way, including rail and equipment yards, and public utility facilities (substations, tank farms, pumping stations, parking/storage areas, un-grazed fencerows).

Post-emergence Control: P+Q herbicide is absorbed by foliage and roots and translocated throughout the plant. The control symptoms exhibited by broadleaf weeds include leaf and stem curl or twisting, and chlorosis. Susceptible grasses demonstrate stunting, chlorosis, and gradual reddening followed by necrosis and death. Apply P+Q herbicide to actively growing weeds as post-emergence broadcast or spot sprays using the rate, turf species, and growth stage indicated in Tables 1, 2 and 3.

APPLICATION INFORMATION

Additives in Spray Mix to Achieve Control:

Methylated seed oil is the recommended adjuvant for post-emergence applications. Do not include additives when tank mixing with EC (Emulsifiable Concentrate) products as this may cause phytotoxicity. Consult your local Advan LLC representative or distributor for recommendations for your area. Other additives or adjuvants may be used such as DyneAmic®, Lesco Spreader Sticker®, LI-700®, Surf King Spreader®, Target Pro Spreader® or Thoroughbred®. However, under some environmental conditions some of these products may cause phytotoxicity or less than optimal efficacy.

Methylated Seed Oil Recommended:

The methylated seed oil used as the adjuvant with P+Q herbicide must meet all the following criteria:

- be non-phytotoxic,
- contain only EPA-exempt ingredients,
- provide good mixing quality in the jar test, and
- be successful in local experience.

The exact composition of suitable products will vary, however, any methylated seed oil used should contain emulsifiers to provide good mixing. Use methylated seed oil at 0.55 oz/1000 sq. ft. (1.5 pts./A).

Adding adjuvants may cause slight leaf burn, but new growth is normal and turf vigor is not reduced. The potential for leaf burn is increased when relative humidity and temperature are high. Additional stress from low mowing heights may also increase the possibility of turf injury. Chelated iron or sprayable soluble nitrogen fertilizer will reduce a slight yellowing that may occur on some turfgrass species.

Spot Applications:

Post-emergence spot applications may be made to susceptible weeds in turfgrass that is tolerant to P+Q herbicide (see Tables 1 and 2). Apply 0.55 ounce of P+Q herbicide per 1,000 square feet of treated area. Spray coverage should be uniform and complete.

Mowing Information:

Do not mow 2 days before or after applying P+Q herbicide to maximize weed control and minimize potential turf injury. Clippings from the first three mowings after treatment should be left on the treated area.

Irrigation and Rainfall:

If soil moisture is not sufficient prior to P+Q herbicide application, irrigation may improve weed control. For best results, do not water or irrigate for 24 hours after application. If rainfall does not occur within 2-7 days after application, irrigation of at least 0.5 inches is recommended,

MIXING INSTRUCTIONS FOR P+Q HERBICIDE

Respective sections of this leaflet define recommended P+Q herbicide tank-mix treatments. If tank-mixing with products in PVA bags, always allow water soluble packets to dissolve before agitating.

Mixing Order for Tank Mixtures:

Notes: (1) When mixing P+Q with other components (carrier and partner pesticide products), allow products to completely dissolve between steps. This is key when tank mixing with ester formulations. (2) Maintain agitation throughout mixing and application of the mixture.

Add the products to the spray tank in the following order:

1. Add products packaged in water-soluble bags first. Agitate the tank mixture. Allow the water-soluble bags to completely dissolve and the product to disperse before adding any other tank mix partner.
2. Then add water-dispersible granules (WDG or WG formulations) and wettable powders (WP formulations). Add wettable powders to the tank as agitation continues. Allow the product to disperse completely before other products are added.
3. Add spray adjuvants and spray markers. Read the adjuvant's label first and use only those adjuvants approved for application to turf and ornamentals.
4. Add flowable liquids (FL) or suspension concentrates (SC).
5. Add emulsifiable concentrates (EC) last.

Ground Driven Sprayer:

1. Begin with a clean spray tank. Fill tank one-half to three-quarters full with clean water.
2. Add P+Q herbicide alone

When using P+Q herbicide alone, either premix (1 part product + 2 parts water) or slowly add P+Q herbicide to the partially filled tank while agitating until completely dispersed. Fill the remainder of the tank with water.

3. P+Q herbicide tank mixes

a. Wettable Powder Formulations

1. When using P+Q herbicide with a wettable powder formulation, add P+Q herbicide to the partially filled tank while agitating.
2. When P+Q herbicide is properly mixed add a slurry of the wettable powder (1 part WP + 2 parts water) slowly into the tank. Fill the remainder of the tank while agitating.

b. Flowable Formulations

1. When using P+Q herbicide with a flowable formulation, add P+Q herbicide to the partially-filled tank while agitating.
2. When P+Q herbicide is properly mixed, premix one part of the flowable with two parts water and add this diluted mixture slowly into the tank. Fill the remainder of the tank while agitating.

c. Emulsifiable Concentrate Formulations

1. When using P+Q herbicide with an emulsifiable concentrate formulation, add P+Q herbicide to the partially-filled tank while agitating.
2. When P+Q herbicide is properly mixed, premix one part of the emulsifiable concentrate with two parts water and add this diluted mixture slowly into the tank. Fill the remainder of the tank while agitating.

d. Dry Flowable (Water Dispersible Granule) Formulations

1. When using P+Q herbicide with a dry flowable formulation, add P+Q herbicide to the partially-filled tank while agitating.
2. When P+Q herbicide is properly mixed, premix one part of the dry flowable with two parts water and add this diluted mixture slowly into the tank. Fill the remainder of the tank while agitating.

4. MAINTAIN CONTINUOUS AGITATION WHILE ADDING HERBICIDES AND UNTIL SPRAYING IS COMPLETED. If the spray mixture is allowed to settle for any period of time, thorough agitation is essential to re-suspend the mixture before spraying is resumed. Continue agitation while spraying.

Backpack Sprayer:

Begin with a clean spray tank. Fill the spray tank 1/2 full with clean water and add the required amount of P+Q herbicide to the sprayer. Cap sprayer and agitate to ensure mixing. Uncap sprayer and finish filling tank to desired level. Cap sprayer and agitate once again. During application it is desirable to agitate the mixture occasionally to ensure mixing. If the mixture is allowed to settle for any period of time, thorough agitation is essential to re-suspend the mixture before spraying is resumed.

Liquid Fertilizers:

Prior to mixing, small quantities should always be tested using a simple jar test. Add the required amount of P+Q herbicide to half filled tank while agitating then add the fertilizer

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product. Complete filling spray tank to desired level.

COMPATIBILITY/JAR TEST FOR MIX COMPONENTS

Add components in the following sequence using 2 teaspoons for each pound or 1 teaspoon for each pint of recommended label rate per acre.

1. Water: For 20 gallons per acre spray volume, use 3.3 cups (800 ml) of water. For other spray volumes, adjust rates accordingly. Use only water from the intended source at the source temperature.
2. Products in PVA bags: Cut an opening in the water-soluble PVA bag just large enough to use a teaspoon for measuring purposes. Use the opened water-soluble PVA bag first when preparing spray solution. Boron containing fertilizers can be incompatible with PVA material. Include PVA material if a boron fertilizer is intended to be used. Cap the jar and invert 10 cycles.
3. Water-dispersible products: (such as P+Q herbicide) (dry flowables, wettable powders, suspension concentrates, or suspoemulsions). Cap the jar and invert 10 cycles.
4. Water-soluble products: (such as Basagran® T/O) - Cap the jar and invert 10 cycles.
5. Emulsifiable concentrates: (methylated seed oil) - Cap the jar and invert 10 cycles.
6. Water-soluble additives: Cap the jar and invert 10 cycles.
7. Let the solution stand for 15 minutes.
8. Evaluate the solution for uniformity and stability. The spray solution should not have free oil on the surface nor thick (clabbered) texture. For WG or WP products, a fine precipitate that is easily re-suspended is normal; large non-dispersible particles (>300 microns) that precipitate on standing are a sign of tank mix incompatibility. Do not use any spray solution that could clog spray nozzles.

GENERAL RESTRICTIONS AND LIMITATIONS

- DO NOT graze or feed livestock forage cut from areas treated with P+Q
- DO NOT apply more than 4.6 pounds of P+Q herbicide per acre (or 1.96 ounces per 1,000 square feet) in one year.
- DO NOT apply to golf course collars or greens
- DO NOT apply to fine fescue unless it is part of a seed blend.
- DO NOT apply to bahiagrass, carpetgrass, St. Augustinegrass, centipedegrass, dichondra, or lawns or turf where desirable clovers are present.
- DO NOT apply within 4 weeks after seedling emergence of Kentucky bluegrass, creeping bentgrass, fine fescue blends and perennial ryegrass.
- DO NOT apply to exposed feeder roots of trees or ornamentals. Be particularly careful within the drip line of trees and other ornamental species.
- DO NOT apply into any ornamental bed.
- DO NOT use clippings as mulch or compost around flowers, ornamentals, trees, or in vegetable gardens.
- DO NOT apply when wind speed is more than 10 mph as drift may cause damage or death of non-target area vegetation. DO NOT apply when conditions favor drift from target area.

Boff

- DO NOT use a lawn type sprayer with a fine mist spray, as wind drift is more likely to occur.
- DO NOT mist, spray, or pour spray solutions on or near vegetables, flowers, ornamentals, shrubs, trees, and other desirable plants, especially plants belonging to the Solanaceae family such as tomatoes, potatoes, eggplants, and bell peppers.
- DO NOT apply through any type of irrigation system.
- DO NOT apply aerially.
- DO NOT use to formulate or reformulate any other pesticide product which is not registered by EPA.

Follow all applicable directions, restrictions, and precautions on the labels of EPA-registered tank mix partners. For best results, weeds should not be under stress from lack of water, excessive water, low fertility, mowing shock, excessive hot or cold temperatures, or injury from other herbicide applications.

TURFGRASS TANK-MIXES

Read and follow the applicable Restrictions and Limitations and Directions For Use on all products involved in tank mixing. The most restrictive labeling applies to any tank mix. To increase spectrum of control of broadleaf weed species a tank mix with 2,4-D, triclopyr, MCPA, MCPP, Three Way™, Trimec®, or other broadleaf herbicide can be used. For sedge control applications of P+Q herbicide with Basagran® SG, Basagran® T/O, Lescogran™, Image® 70 DG or MSMA can be made.

Combinations with MSMA will aid in control of certain grassy weeds such as bahagrass or kikuyugrass. Consult tolerant turfgrass species on all labels. Separate applications should be made if all target weeds are not at the correct growth stage for treatment at the same time.

Physical incompatibility, reduced weed control, or turf injury may result from mixing P+Q herbicide with other pesticides (fungicides, herbicides, insecticides, or miticides), additives, or fertilizers.

Before tank-mixing a simple jar test is recommended to insure compatibility of herbicides or other pesticide and/or additives (see Compatibility/Jar Test for Mix Components section on this label). Refer to EPA-registered labels for specific use directions, precautions, and limitations before tank mixing with P+Q herbicide and follow those that are most restrictive.

Tank mixes are permitted only in states where the tank mix partners(s) are registered for the application site and the turf and ornamental species listed. When using P+Q in a tank mixture with other pesticides, observe the most restrictive label limitations and precautions on the labels of the products used.

SPRAYING INSTRUCTIONS FOR P+Q HERBICIDE

Apply with properly calibrated ground equipment in sufficient water per acre to provide uniform spray distribution (at least 20 gallons of water per acre or at least 0.5 gallon per 1,000 sq. ft.). Low pressure (e.g., 20-40 psi) sprayers are recommended.

Maintain continuous agitation during spraying with good mechanical or bypass agitation. Nozzle screens must be no finer than 50 mesh (100 mesh is finer than 50 mesh). Check sprayer routinely to determine proper calibration. Flat fan, flood or cone nozzles may be used. Nozzles should be arranged to obtain uniform coverage of turf and weeds to be controlled. Boom height, nozzle selection, and pressure should be adjusted to provide uniform coverage and minimize spray drift.

Avoid overlaps that will increase rates above those recommended.

Avoid application when winds may cause drift.

Procedure For Cleaning Spray Equipment:

Clean application equipment thoroughly using a strong detergent or commercial sprayer cleaner, according to the manufacturer's directions, before and after applying this product.

Table 1. Post-emergent application of P+Q, used as directed on this label, will control the following weeds:

Grasses controlled	Broadleaf weeds controlled
Barnyardgrass	Bindweed, field
Bluegrass, annual (<i>Poa annua</i>)	Clover, hop
Crabgrass (Large and Smooth) ^{1/}	Clover, red
Foxtails, annual	Clover, white
Signalgrass, broadleaf ^{2/}	Dandelion, common
	Dollarweed
	Geranium, Carolina
	Medic, black
	Morning glory
	Speedwell, common
	Speedwell, slender
	Speedwell, thymeleaf
	Violet, wild

1. Biotypes of large and smooth crabgrass in California have shown varied response to P+Q herbicide. If control failure occurs following the application of full or split application rates do not reapply P+Q herbicide, and change to a herbicide with a different mode of action

2. Under certain conditions applications of P+Q herbicide made to annual grasses at 2 - 4 tiller may not

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provide complete control. A sequential application will be required for grass control in these situations. Optimum control is achieved when applications of P+Q herbicide + methylated seed oil is applied either before second tiller or as weed grasses mature.

Table 2. Pre-emergent application of P+Q, used as directed on this label, will control the following weeds:

Barnyardgrass	Goosegrass ^{5/}	Purslane, common
Bluegrass, annual (<i>Poa annua</i>) ^{1/}	Henbit ^{2/}	Pusley, Florida
Carpet weed	Itchgrass	Rescuegrass ^{4/}
Chickweed, common ^{2/}	Johnsongrass (from seed)	Shepherds purse ^{2/}
Chickweed, mouseear (from seed)	Junglerice	Signalgrass, broadleaf
Crabgrass (Large, Smooth) ^{3/}	Knotweed ^{2/}	Speedwell, Persian
Crowfootgrass	Kochia	Sprangletop
Cupgrass, woolly	Lambsquarter, common	Spurge, prostrate
Foxtails, annual	Lovegrass	Witchgrass
Pigweed	Panicum (Texas, Fall, Browntop)	Woodsorrel, yellow (from seed)

1. In areas where *Poa annua* is a winter annual, apply P+Q in August or September to established, non-over-seeded turf before *Poa annua* seeds germinate. These timings are approximate. Consult State Extension Service for more specific timing for your area.
2. To control this weed, apply P+Q in late summer, fall, or winter before weed seeds germinate.
3. Fall applications for spring crabgrass control in cool-season grasses: In those areas where the ground freezes in the winter, P+Q can be applied in the fall at rates of 1.5-2.3 lbs./A after the soil temperature falls below 50°F but before the ground freezes. This application will control crabgrass the following spring.
4. Suppression only.
5. In any area a single application of 1.5-2.3 lbs./A of P+Q will control goosegrass. However, under heavy goosegrass pressure and/or an extended growing season, most effective control may be obtained by making an initial application of 1.5-2.3 lbs./A followed, after 60-90 days, by a second application that does not exceed the maximum rate for that turfgrass species listed in Table 3.

Maximum Use Rates-Turfgrass

P+Q can be applied to the turfgrass species listed in the following table. Do not apply more than the highest rate listed per treatment for each species. Do not apply more than the maximum annual rate in a calendar year.

Table 3. Application Rates of P+Q by Turfgrass Species ¹

Turf Species	Rate per treatment	Rate per treatment	Maximum Annual
Established Turf	Lbs./Acre	oz./1000 sq. ft.	Lbs./Acre
<i>Northern Highly Tolerant</i>			
Bluegrass, Kentucky ²	1.0 – 2.30	0.36 – 0.83	3.00
Buffalograss			
Ryegrass, Perennial ²			

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Fescue, Tall	1.0 – 2.30	0.36 – 0.83	4.60
<i>Northern Moderately Tolerant</i>			
Fescue, Fine	1.0 – 2.30	0.36 – 0.83	2.30
Bentgrass, creeping	1.0 – 1.50	0.36 – 0.48	1.50
<i>Southern Moderately Tolerant</i>			
Bermudagrass hybrid ³	2.0 – 2.30	0.72 – 0.83	4.60
<i>Southern Highly Tolerant</i>			
Bermudagrass, common ³	2.0 – 2.30	0.72 – 0.83	4.60
Zoysiagrass			
Seashore paspalum	1.50	0.48	4.60

1. P+Q may be applied more than once a year as long as the total amount applied is not greater than maximum annual rate for the individual turf species.
2. Note: Under ideal conditions for disease development, these species may be more prone to rust infection
3. May be used on newly-sprigged or plugged Bermudagrass at rates not to exceed 1.5 lb/A (0.48 oz/1000 sq. ft. Newly-sprigged or plugged Bermudagrass stolon rooting may be temporarily retarded.

Table 4. Sensitive/Susceptible Turfgrass Species

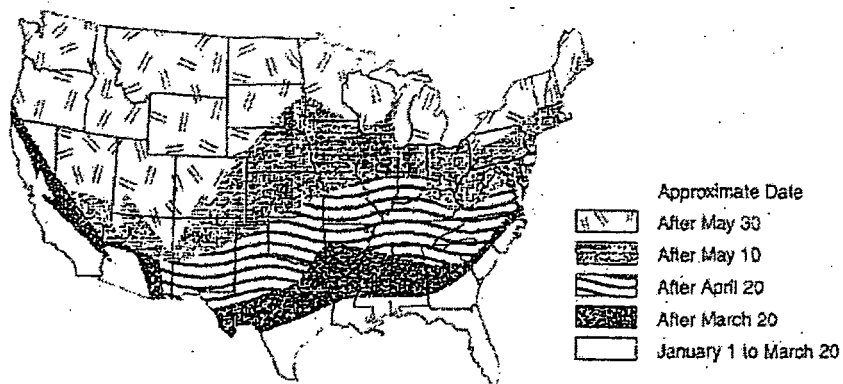
Northern Turfgrass species Not Tolerant	Southern Turfgrass Species Not Tolerant
Bluegrass, Annual	Bahiagrass
Ryegrass, Annual	Centipedegrass
Fescue, Red	Dichondra
Fescue, Hard	St Augustinegrass
Fescue, Chewings	
Bluegrass, <i>Poa trivialis</i>	
Bentgrass, seaside	
Bentgrass colonial	

P+Q used as a pre-emergence herbicide, when properly applied, will control certain grass and broadleaf weeds in established turfgrasses including:

- Golf courses **excluding** putting greens
- Lawns
- Sod nurseries

For optimum weed control, P+Q should be activated by at least 0.5 inches of rainfall or irrigation before weed seeds germinate and within 2-7 days following application. See the map below for approximate crabgrass seed germination dates

CRABGRASS SEED GERMINATION DATES



Use Precautions-Turfgrass

- 1) DO NOT apply P+Q to areas where dichondra, colonial bentgrass, velvet bentgrass, or annual bluegrass (*Poa annua*) are desirable species.
- 2) DO NOT cut (harvest) treated sod before 90 days after application. To avoid turfgrass injury, do not apply to newly set sod until the sod has rooted and exposed edges have filled in.
- 3) DO NOT apply P+Q to turf stressed by conditions such as drought, low fertility, or pest damage.
- 4) DO NOT disturb the pre-emergent herbicide barrier with cultural practices. Reduced weed control may result.
- 5) DO NOT **apply P+Q to golf course putting greens.**

When to Apply P+Q before seeding/over-seeding turf:

P+Q will inhibit the development of turfgrass species seeded or over-seeded too soon after application. Follow rates and intervals in Table 4 for best over-seeding/reseeding results.

Table 5. Number of months, given by typical turf growing zones, before seeding turfgrass varieties if P+Q is applied primarily for pre-emergence weed control (85 – 90% bare soil at application) as a single application.

Amount of TBD Lbs. Product/A	Months Before Over-seeding by Turf Growing Zones *		
	North	Transition	South
1.5	4	4	4
2.0	5	4	4
2.3	6	5	5

*Note: In AZ, CA, NV, and TX, application of P+Q 6-8 weeks before over-seeding with perennial ryegrass can be used in established bermudagrass.

When to Apply P+Q After Over-seeding Turf

Injury to desirable seedlings is likely if P+Q is applied before the secondary roots of seedlings are in the second inch of soil (not thatch plus soil). To reduce the potential to

injure over-seeded turf, wait 60 days after seeding or until after the second mowing, whichever is longer, before applying P+Q.

Poa annua control in Established Bermudagrass Over-seeded with Perennial Ryegrass (AZ, CA, NV, and TX only)

Use on golf courses (excluding golf course putting greens, lawns, and sod nurseries) when over-seeding with perennial ryegrass (minimum seeding rate of 350 lbs./A).

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited.

PESTICIDE STORAGE: Store in original container away from feed or foodstuffs and separated from other pesticides.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of at an approved waste disposal facility.

CONTAINER DISPOSAL:

Paper and plastic film bags or boxes- Nonrefillable container. Do not reuse or refill this container. Completely empty container into application equipment. Then dispose of empty bag or box in a sanitary landfill or incinerate; or, if allowed by state and local authorities, burn locally. Stay out of smoke from burning container.

Fiber drums with plastic liners- Nonrefillable container. Do not reuse or refill this container. Completely empty the plastic liner by shaking and tapping sides and bottom to loosen clinging particles. Pour residues into application equipment. Dispose of empty liner at an incineration facility. Offer the fiber drum for recycling or re-use. If the fiber drum cannot be recycled or re-used, dispose of at an incineration facility.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire, or other emergency, call CHEMTREC (phone: 1-800-424-9300) day or night.

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