

228-592

01-08-2010

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Mr. George Meindl
Product Registration
Nufarm Americas, Inc.,
150 Harvester Drive, Suite 200
Burr Ridge, IL 60527

JAN 8 2010

Subject: Notification for Label Revisions under PRN 98-10 and PRN 2007-4
Storage & Disposal and Primary Brand Name Changes

Dear Registrant:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notices (PRN) 98-10 and 2007-4 dated December 3, 2009 for:

EPA Registration 228-592 "Nufarm Quinclorac SPC 75 DF Herbicide"

The Registration Division (RD) has conducted a review of the request(s) for applicability under PRN 98-10 and PRN 2007-4 and finds that the label changes requested fall within the scope of PRN-98-10 and PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identifying the batch of the pesticide distributed and sold be placed on non-refillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Owen F. Beeder of my staff at 703-308-8899.

Sincerely,

A handwritten signature in black ink, appearing to read "Linda Arrington".

Linda Arrington
Notifications & Minor Formulations Team Leader
Registration Division (7505P)
Office of Pesticide Programs



Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060

	United States Environmental Protection Agency Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
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Application for Pesticide - Section I

1. Company/Product Number 228-592	2. EPA Product Manager Jim Tompkins	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) Nufarm Quinclorac SPC 75 DF Herbicide	PM# 25	
5. Name and Address of Applicant (Include ZIP Code) Nufarm Americas, Inc. 150 Harvester Drive Suite 200 Burr Ridge, IL 60527 <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____ Product Name _____

Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____	NOTIFICATION JAN 8 - 2010
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.	
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.	

Explanation: Use additional page(s) if necessary. (For section I and Section II.)

See cover letter for detailed explanation. Label notification consistent with PRN98-10, primary brand name change. This notification is consistent with the provisions of PR Notice 98-10 and EPA regulations at 40 CFR 152.46, and no other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make false statements to EPA. I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and of EPA's regulations at 40 CFR 156.10, 156.140, 156.144, 156.146 and 156.156. No other changes have been made to the labeling or the confidential statement of formula of this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make false statements to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR 156.10, 156.140, 156.144, 156.146 and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		<input type="checkbox"/> Metal	<input checked="" type="checkbox"/> Plastic
* Certification must be submitted If "Yes" Unit Packaging wgt. No. per container		If "Yes" Package wgt No. per container		<input type="checkbox"/> Glass	<input type="checkbox"/> Paper
				<input type="checkbox"/> Other (Specify) _____	
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 1 pound		5. Location of Label Directions <input type="checkbox"/> _____	
6. Manner in Which Label is Affixed to Product <input checked="" type="checkbox"/> Lithograph Paper glued Stenciled <input type="checkbox"/> Other _____					

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name George Meindl george.meindl@us.nufarm.com	Title Regulatory Affairs Manager	Telephone No. (Include Area Code) 630.455.2017
Certification I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received (Stamped)
2. Signature 	3. Title Regulatory Affairs Manager	
4. Typed Name George Meindl	5. Date 12/3/2009	

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NOTIFICATION
JAN 8 - 2010

Nufarm Quinclorac SPC 75 DF Herbicide

FOR POSTEMERGENCE SELECTIVE BROADLEAF AND CERTAIN GRASSY WEED CONTROL IN RESIDENTIAL AND ORNAMENTAL TURFGRASSES.

ACTIVE INGREDIENTS:

Quinclorac: 3,7-dichloro-8-quinolinecarboxylic acid 75.0%

OTHER INGREDIENTS: 25.0%

TOTAL: 100.0%

**KEEP OUT OF REACH OF CHILDREN
CAUTION / PRECAUCION**

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

SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

For Chemical Spill, Leak, Fire, or Exposure, Call CHEMTREC (800) 424-9300
For Medical Emergencies Only, Call (877) 325-1840

EPA REG. NO. 228-592
EPA EST. NO.

Manufactured For
NUFARM AMERICAS INC.
150 Harvester Drive
Burr Ridge, IL 60527



NET CONTENTS: LBS. (Kgs)

000228.00592.20091203.EPA.PBN
NUP-08104

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION / PRECAUCION

Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, clothing or eyes. Avoid breathing dust or spray mist. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

All mixers, loaders, applicators, and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves, such as butyl, natural, neoprene, or nitril rubber >14 mils.
- Shoes plus socks

See engineering controls for additional requirements and exceptions.

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

Engineering Controls Statements: When handlers use closed systems, enclosed cabs, or aircraft 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 may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS	
Users Should:	
<ul style="list-style-type: none"> • Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. • Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. If pesticide gets on skin, wash immediately with soap and water. • 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. 	

FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the 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 to 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 to 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 by mouth-to-mouth, if possible. • Call a poison control center or doctor for further treatment advice.

HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-877-325-1840 for emergency medical treatment information.	

NOTE TO PHYSICIAN	
Probable mucosal damage may contraindicate the use of gastric lavage.	

ENVIRONMENTAL HAZARDS

The chemical in this product have properties and characteristics associated with chemicals detected in groundwater. The use of these chemicals in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Keep out of lakes, ponds and streams. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. READ ENTIRE LABEL BEFORE USING THIS PRODUCT. USE STRICTLY IN ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS AND DIRECTIONS.

For use only by certified commercial applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification. All applicable directions, restrictions and precautions are to be followed. This labeling must be in the possession of the user at time of application.

Do not apply this product by air or through any type of irrigation equipment.

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

AGRICULTURAL USE REQUIREMENTS

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

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

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

- coveralls
- chemical-resistant gloves made of any waterproof material (such as nitrile, butyl, neoprene, and/or barrier laminate > 14 mils)
- 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, forests, nurseries, or greenhouses.

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

Do not allow people (other than applicator) or pets in treatment area during application. Do not enter or allow others to enter treatment areas until sprays have dried.

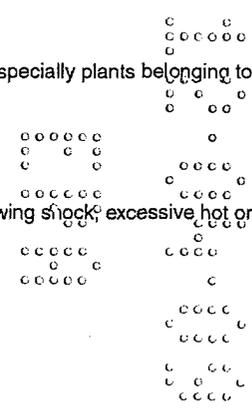
PRODUCT INFORMATION

This product may be applied postemergence to residential and non-residential turfgrasses 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, roadsides, schools, picnic grounds, athletic fields, houses of worship, cemeteries, golf courses and sod farms.

This product 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.

GENERAL RESTRICTIONS AND LIMITATIONS

- DO NOT apply more than 2 pounds of this product per acre (or 0.73 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, centipedegrass, dichondra, St. Augustinegrass, or to lawns or turf where desirable clovers are present.
- DO NOT apply within 4 weeks after seedling emergence of Kentucky bluegrass, creeping bent grass, fine fescue blends and perennial ryegrass.
- DO NOT apply to exposed feeder roots of trees and 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.
- Apply when wind speed is less 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.
- Use a lawn type sprayer with coarse spray as wind drift is less likely.
- Avoid mist and spray onto vegetables, flowers, ornamentals, shrubs, trees and other desirable plants, especially plants belonging to the Solanaceae family such as tomatoes, eggplants and bell peppers.
- DO NOT pour spray solutions near these plants.
- DO NOT apply through any type of irrigation system.
- DO NOT use to formulate or reformulate any other pesticide product which is not registered by EPA.
- 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.



TURF TOLERANCE (Established)

Highly Tolerant Species	Moderately Tolerant Species	Susceptible Species (Do Not Use on these grass species)
Bermudagrass, Common ¹ Bluegrass, Annual (Poa annua) Bluegrass, Kentucky Buffalograss Fescue, Tall Ryegrass, Annual Ryegrass, Perennial Zoysiagrass	Bentgrass, Creeping ^{1,3} Bermudagrass (Hybrids) ¹ Bluegrass, Rough (Poa trivialis) Fescue, Chewing's Fescue, Fine ² Fescue, Hard Fescue, Red	Bahiagrass Bentgrass, Colonial Bentgrass, Seaside Centipedegrass Dichondra St. Augustinegrass
<p>1) Yellowing that may occur on these species can be reduced by the addition of chelated iron or sprayable soluble nitrogen fertilizer.</p> <p>2) Only apply to fine fescue when it is part of a blend. Consult Seeding/Sprigging Timing Chart for this situation.</p> <p>3) Application to established Creeping Bentgrass must be applied in 2 to 3 split applications at 0.162 to 0.245 ounces per 1,000 sq. ft. Do not exceed 2 pounds a.i. of this product per acre per season. Sequential application(s) should be timed 21 days apart. Use methylated seed oil at 0.55 ounces per 1,000 sq. ft. (1.5 pints per acre).</p> <p>Do NOT use on golf course greens, tees and collars. Consult Seeding/Sprigging Timing Chart for this situation.</p>		

APPLICATION INFORMATION

Apply this product to actively growing weeds as a postemergence broadcast or spot spray using the rate, turf species and growth stage as indicated in this label. Do not exceed the specified application rate or fail to comply with the use restrictions listed in General Restrictions and Limitations.

To achieve consistent weed control, methylated seed oil is recommended. See Mixing Instructions for more information.

Spot Applications:

Postemergence spot applications may be made to susceptible weeds in turfgrass that is tolerant to this product. Apply 0.367 ounce of this product per 1,000 square feet of treated area. Spray coverage should be uniform and complete.

Mowing:

Do not mow for two days before or two days after application to maximize weed control and minimize potential turf injury. Clippings for the first three mowings should be left in the application area. Do not use clippings as mulch or compost around flowers, ornamentals, trees, or in vegetable gardens.

Irrigation and Rainfall:

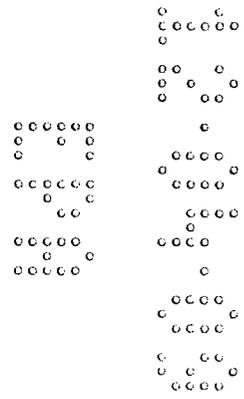
If soil moisture is not sufficient prior to application, irrigation may improve weed control. For best results, DO NOT water or irrigate for 24 hours after application. If rainfall does not occur in 2 to 7 days after application, irrigation of at least one-half inch is required.

Extended Grass Control:

To extend grass control, this product may be tank mixed with pendimethalin-based products (e.g., Pendulum(R) 3.3 EC, PRE-M(R) 3.3 Turf Herbicide, or Pendulum(R) 60 DG) to provide residual control of annual grasses. Consult the respective tank mix labels for additional weeds controlled.

Seeding/Overseeding/Sprigging:

The use of this product before or after seeding or overseeding a turf area will not significantly interfere with the turfgrass seed germination and growth of those grass types identified as tolerant.



Variety	Before Seeding ¹	At Seeding	7 Days After Emergence	14 Days After Emergence	28 Days After Emergence
Annual Bluegrass	OK	OK	OK	OK	OK
Annual Ryegrass	OK	OK	OK	OK	OK
Buffalograss	OK	OK	OK	OK	OK
Common Bermuda ²	OK	OK	OK	OK	OK
Creeping Bentgrass	OK	NO	NO	NO	OK
Fine Fescue (in blend)	OK	NO	NO	NO	OK
Hybrid Bermuda ²	OK	OK	OK	OK	OK
Kentucky Bluegrass	OK	NO	NO	NO	OK
Perennial Ryegrass	OK	OK	NO	NO	OK
Tall Fescue	OK	OK	OK	OK	OK
Zoysiagrass ²	OK	OK	OK	OK	OK

NOTE: No adjuvant or additive should be used when applications of this product are made on newly emerged turf seedlings until 28 days after emergence. Application of this product should be timed around the seeding operations using this chart as a reference point.

¹ This product can be applied 7 days or greater prior to seeding.
² This product can be used anytime prior to, at or after sprigging.

MIXING INSTRUCTIONS

Respective sections define specific tank mix treatments with this product. If tank mixing with products in PVA bags, always allow water soluble packets to dissolve before agitating.

Begin with a clean spray tank. Fill the spray tank with 1/2 the required amount of clean water. Slowly add this product while agitating, then complete filling the tank with water. Maintain continuous agitation until spraying is complete. If left standing for extended periods of time, reagitrate to assure uniformity of the spray mixture.

Adding Adjuvants:

Adding adjuvants may cause slight leaf burn, but new growth is normal and turf vigor is not reduced. Delaying applications when relative humidity and temperatures are high may help to avoid potential for leaf burn and turfgrass damage. Low mowing heights may also increase the possibility of turf injury. The addition of a chelated iron or sprayable solution nitrogen fertilizer will reduce slight yellowing that may occur on some turfgrass species.

For best results, the addition of methylated seed oil is recommended when it meets all of the following criteria:

- non-phytotoxic
- contains only EPA-exempt ingredients
- provides good mixing quality in the jar test
- successful in local experience

Do not include additives when tank mixing with emulsifiable concentrate (EC) products as this may cause phytotoxicity.

Liquid Fertilizers:

This product can be mixed with some liquid fertilizers or liquid iron materials. Because liquid fertilizers and liquid iron differ in pH, free ammonia content, density, salt concentration and percentage of water, a compatibility test (given below) is recommended prior to mixing in the application equipment. All regulations, either State or Federal, relating to the application of liquid fertilizers or liquid iron and this product must be strictly followed.

This product may be tank mixed with EPA-registered preemergent herbicides (if compatible) for extended residual control.

The following compatibility test should always be performed prior to full-scale tank mixing.

1. Pour 18 ounces of water into a quart jar.
2. Add 1 ounce of either the liquid fertilizer or liquid iron to be used.
3. Add 1 ounce of this product.
4. Close jar and shake well.
5. Watch the mixture for several seconds after shaking and check again after 30 minutes.
6. If the mixture does not show signs of separating, the combination may be used. If the mixture foams excessively, gels, separates or gets very thick, do not combine for field application.
7. Compatibility may be improved by the use of a compatibility agent. Follow the previously outlined test procedures and add 1/6 ounce of the compatibility agent between steps (the compatibility agent must be added to the fertilizer or iron before adding this product).
8. If the mixture does not separate, gel, foam or get very thick, it may be used for field application. Mix only the amount to be sprayed. Do not allow to stand overnight.

Ground Driven Sprayer:

Begin with a clean spray tank. Fill tank 1/2 to 3/4 full with clean water.

Using this product alone in ground driven sprayer:

- Either premix (1 part product with 2 parts water) or slowly add this product to the partially-filled tank while agitating until completely dispersed. Fill remainder of the tank with water.

Using this product as a tank mix in ground driven sprayer:

WETTABLE POWDER FORMULATIONS

- Add this product to the partially-filled tank while agitating.
- When this product is properly mixed, add a slurry of the wettable powder (1 part WP with 2 parts water) slowly into the tank. Fill the remainder of the tank while agitating.

FLOWABLE FORMULATIONS

- Add this product to the partially-filled tank while agitating.
- When this product is properly mixed, premix 1 part flowable with 2 parts water. Add this diluted mixture slowly into the tank. Fill the remainder of the tank while agitating.

EMULSIFIABLE CONCENTRATE FORMULATIONS

- Add this product to the partially-filled tank while agitating.
- When this product is properly mixed, premix 1 part emulsifiable concentrate with 2 parts water. Add this diluted mixture slowly into the tank. Fill the remainder of the tank while agitating.

DRY FLOWABLE (Water Dispersible Granule) FORMULATIONS

- Add this product to the partially-filled tank while agitating.
- When this product is properly mixed, premix 1 part dry flowable with 2 parts water. Add this diluted mixture slowly into the tank. Fill the remainder of the tank while agitating.

Backpack Sprayer:

Begin with a clean spray tank. Fill tank 1/2 full with clean water and add the required amount of this product to the backpack sprayer. Cap backpack sprayer and to ensure mixing. Uncap backpack sprayer and finish filling tank to desired level. Cap backpack sprayer and agitate once again. During application, it is desirable to agitate the mixture on occasion to ensure mixing. If the mixture is allowed to settle for any period of time, thorough agitation is essential to resuspend the mixture before spraying is resumed.

SPRAYING INSTRUCTIONS

Apply with properly calibrated ground equipment. Use only application equipment that is capable of spreading a uniform droplet, wetting each weed surface. Use at least 0.5 gallons of water per 1,000 square feet (20 gallons of water per acre).

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 on 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.

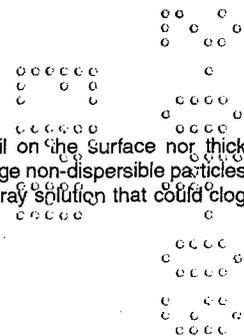
Avoid application when winds may cause drift.

Sprayer Cleaning: Clean application equipment thoroughly before and after application to prevent cross-contamination. Use a strong detergent or approved spray tank cleaner and rinse thoroughly.

COMPATABILITY TEST FOR MIX COMPONENTS

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

1. **Water:** For 20 gallons per acre spray volume, use 3.3 cups (800ml) 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 this product)(dry flowables, wettable powders, suspension concentrates or suspoemulsion) - Cap the jar and invert 10 cycles.
4. **Water-soluble Products:** 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 resuspended 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.



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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 the spectrum of control of broadleaf weed species, a tank mix of this product and a broadleaf herbicide can be used, such as 2,4-D, triclopyr, MCPA, MCPP, or Three Way. For extended residual control, apply this product with a pendimethalin-based herbicide. For sedge control, applications of this product with a bentazon-based or MSMA product can be made.

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

Before tank mixing, a simple jar test is recommended to insure compatibility of herbicides or other pesticide and/or additives. Refer to the manufacturer's labels for specific use directions, precautions and limitations before tank mixing with this product and follow those that are most restrictive.

APPLICATION RATES AND TIMING FOR POSTEMERGENCE WEED CONTROL IN TURF

This product can provide control and suppression of certain grassy weeds. For best results, apply this product when weeds are actively growing and in early stages of growth. More mature grasses will be more difficult to control and may require a second application. Mature, drought-stressed grassy weeds will be more difficult to control so adequate soil moisture is preferred. Adverse or extreme environmental conditions such as poor soil conditions, high temperatures, drought and cultural conditions may effect the performance of this product. Do not broadcast apply this product above 90°F. Spot treatments above 90°F may result in some turf injury.

USE RATES

This product may be applied postemergence to turfgrasses according to the following rate chart. 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, roadsides, schools, picnic grounds, athletic fields, houses of worship, cemeteries, golf courses and sod farms. Not for use on sod farms in Arizona.

APPLICATION GUIDELINES			
APPLICATION	PRODUCT RATE	ADDITIVE RATE	WEED SPECIES CONTROLLED
Broadcast	1 pound/A or 0.367 ounce/1,000 sq ft	1.5 pints/A or 0.55 ounce/1,000 sq. ft. of methylated seed oil	GRASSY WEEDS Barnyardgrass Crabgrass, Large ¹⁴ Crabgrass, Smooth ¹⁴ Foxtail, Giant ¹ Foxtail, Green ¹ Foxtail, Yellow ¹ Kikuyugrass ²³ Signalgrass, Broadleaf ¹ Torpedograss ⁹ BROADLEAF WEEDS Bindweed, Field Clover, Hop Clover, Red Clover, White Dandelion, Common ² Daisy, English ²⁵ Dollarweed Geranium, Carolina Medic, Black Morningglory spp. Speedwell, Common Speedwell, Slender Speedwell, Thymeleaf Violet, Wild
Spot Treatment	0.367 fluid ounces per 1,000 sq. ft. of treated area		

Notes:

- 1 Ensure that spray volumes are adequate to completely cover weeds, especially when dense weed infestations make it difficult to completely cover the foliage of target weeds. Optimum control is achieved when applications of this product plus methylated seed oil is applied either before second tiller or as weed grasses mature.
- 2 Tank mix partner or sequential application required.
- 3 Make 3 sequential applications of 0.245 ounce of product per 1,000 square feet at 14 to 21 day intervals.
- 4 Biotypes of large and smooth crabgrass in California have shown varied response to this product. If control failure occurs following the application of a full or split application rates, do not reapply this product and change to a herbicide with a different mode of action.
- 5 NOT FOR USE to control this weed in California.

