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

OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Jill Holihan FMC Corportation 1735 Market Street Philadelphia, PA 19103

Subject:

Label Notification; Per PR-Notice 98-10

F9001-1 SC Herbicide EPA Reg. No. 279-3414

Date Submitted: November 29, 2011

DEC 22 2011

Dear Ms. Holihan:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 dated November 29, 2011 for the product referenced above. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions regarding this letter, please contact Jasmine Branch at (703) 347-0351 or branch.jasmine@epa.gov.

Sincerely,

Kathryn Montague Product Manager 23

Herbicide Branch

Registration Division (7505P)

Please read instructions on reverse before completing form. Form Approved. OMB No. 2070-0060. Approval expires 2-28-95 **OPP Identifier Number** Registration United States **Environmental Protection Agency Amendment** Washington, DC 20460 Other Application for Pesticide - Section I 1. Company/Product Number 2. EPA Product Manager 3. Proposed Classification 279-3414 Kathryn Montague None Restricted 4. Company/Product (Name) PM# F9001-1 SC Herbicide 23 5. Name and Address of Applicant (Include ZIP Code) 6. Expedited Reveiw. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling **FMC Corporation** 1735 Market Street EPA Reg. No. Philadelphia, PA 19103 Check if this is a new address **Product Name** Section - II NOTIFICATION Final printed labels in repsonse Amendment - Explain below. Agency letter dated DEC 2 2 2011 "Me Too" Application. Resubmission in response to Agency letter dated Other - Explain below. Notification - Explain below. Explanation: Use additional page(s) if necessary. (For section I and Section II.) FMC Corporation is proposing re-adding sedges to the pre-emergence section of the label for the subject product by notification per PR Notice 98-10. Jill.Holihan@FMC.com Section - III 1. Material This Product Will Be Packaged In: Child-Resistant Packaging Unit Packaging Water Soluble Packaging 2. Type of Container Yes Metal Yes Yes Plastic No No No Glass Paper If "Yes" No. per No. per * Certification must Unit Packaging wgt. Package wgt Other (Specify) be submitted 3. Location of Net Contents Information 4. Size(s) Retail Container 5. Location of Label Directions Container 6. Manner in Which Label is Affixed to Product Lithograph Paper glued Stenciled Other Section - IV 1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application...) Name Title Telephone No. (Include Area Code) Jill Holihan **Product Registration Manager** 215-299-6436 6. Date Application Certification Received I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowlingly false or misleading statement may be punishable by fine or imprisonment or (Stamped) both under applicable law. 3. Title 2. Signature **Product Registration Manager** C Holike 4. Typed Name 5. Date 11/29/2011 Jill Holihan

FMC Corporation

1735 Market Street Philadelphia, PA 19103

215.299.6000 phone

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215 299 6468 fax

www.fmc.com

FMC Agricultural Products

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VIA FEDERAL EXPRESS

November 29, 2011

Ms. Kathryn Montague U.S. Environmental Protection Agency Document Processing Desk (NOTIF) Office of Pesticide Programs (7504P) Room S-4900, One Potomac Yard 2777 South Crystal Drive Arlington, VA 22202-4501

Dear Ms. Montague:

Subject:

Chemical Number/Name: 129081/sulfentrazone

Chemical Number/Name: 79101/dithiopyr

F9001-1 SC Herbicide (EPA Reg. No. 279-3414)

Notification of Addition of Pests per PR Notice 98-10

FMC Corporation is proposing adding sedges to the pre-emergence section of the label for the subject product. These pests were required to be removed previously by the agency, but subsequent conversations with EPA have allowed this notification to move forward. FMC believes that the changes are in full compliance with PR Notice 98-10, section II <u>Labeling Notifications</u>; Part B Adding or Deleting Pests.

To support this notification, FMC has attached an email dated 7/12/2011 that included data showing pre-emergent efficacy against the subject weeds.

The proposed label includes the following changes:

1. On pages 5 and 6, in the "Specific Use Instructions on Turfgrass" section of the label, the following sedge species were added to Table 2:

Nutsedge, yellow	(Cyperus esculentus)	
Sedge, globe	(Cyperus globulosus)	
Sedge, cylindrical	(Cyperus retrorsus)	
Sedge, Surinam	(Cyperus surinamensis)	
Sedge, Texas (Cyperus polystachyos)		

2. On page 7, in the "Additional Use Instructions" section of the label:

"Preemergence control of annual broadleaf weeds" was changed to read "Preemergence control of annual broadleaf weeds and sedges"

Enclosed, please find the following documents:

- EPA Form 8570-1
- Certification of Compliance with PR Notice 98-10
- Two copies of draft labeling (one copy with changes in red)
- Copy of an email sent 7/12/2011 regarding the allowance of this notification

We trust that the enclosed information is acceptable for the Agency to process this request. If you have any questions, please call.

Sincerely,

Jill Holihan

Product Registration Manager

215-299-6436

jill.holihan@fmc.com

CERTIFICATION STATEMENT WITH RESPECT TO PR-NOTICE 98-10

Notification of label change per PR Notice 98-10:

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 any false statement 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.

Agent for FMC Corporation

11/29/2011

Date

F9001-1 SC Herbicide

For Preemergence and early postemergence control of crabgrass, selected annual grasses, sedges and annual broadleaf weeds in Turf Sites - Residential and Institutional Lawns, Athletic Fields, Commercial Sod Farms, Golf Course Fairways and Roughs; Roadsides, Utility right-of-ways, Railways, and Industrial areas

EPA Reg. No. 279-3414

EPA Est. No.

Active Ingredient:

Sulfentrazone: N-[2,4-dichloro-5-[4-(difluoromethyl-4, 5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]phenyl]
methanesulfonamide 16.74%

Dithiopyr:
3,5pyridinedicarbothioic acid,
2-(difluoromethyl)-4-(2-methylpropyy)6-(trifluoromethyl)-S,S-dimethyl ester 22.26%

Other Ingredients: 61.0%

TOTAL: 16.00

NOTIFICATION DEC 2 2 2011

F9001-1 SC contains 4.0 pounds (1.674 lbs sulfentrazone and 2.226 lbs dithiopyr) of active ingredient per gallon

CAUTION

	FIRST AID
IF ON SKIN	 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 SWALLOWED	 Call a poison control center or doctor immediately for treatment advice. Do not give any liquid to the person.
	 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 IN EYES	 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	 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.
	HOTLINE NUMBER
3148 for emergency medical treatme	with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-331 ant information. If this Product Call 1-800-321-1FMC(1362)

See additional precautionary information contained inside label booklet.

FMC Corporation Agricultural Products Group 1735 Market Street Philadelphia PA 19103

PRECAUTIONARY STATEMENTS

Hazards to Humans (and Domestic Animals)

CAUTION

Harmful if absorbed through skin. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Wear long-sleeved shirt and long pants, socks, shoes, and gloves. Remove and wash contaminated clothing before reuse.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear long-sleeved shirt and long pants, waterproof gloves, and shoes plus socks.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:

. Users should remove clothing immediately if product gets inside. Then wash thoroughly and put on clean clothing.

Environmental Hazards

This product is toxic to marine/estuarine invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Drift and runoff may be hazardous to terrestrial and aquatic plants in neighboring areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

Groundwater advisory: Sulfentrazone is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

Do not use on coarse soils classified as sand which have less than 1% organic matter.

<u>Surface water advisory:</u> Sulfentrazone can contaminate surface water through spray drift. Under some conditions, sulfentrazone may also have a high potential for runoff into surface water (primarily via dissolution in runoff water), for several to many months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-lying tile drainage systems that drain to surface waters.

DIRECTIONS FOR USE

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

Do not apply this product through any type of irrigation system. 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. These requirements only apply to uses of this product that are covered by the Worker Protection Standard.

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls over long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material, and 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.

Re-entry Statement: Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment area until spray has dried.

Shake Well Before Using

STORAGE AND DISPOSAL

Do not contaminate water, food of feed by storage or disposal.

Pesticide Storage: Store product in original container only, away from other pesticides, fertilizer, food or feed. Store in a cool, dry place and avoid excess heat..

Spill: In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call FMC: (800) 331-3148.

To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

Pesticide Disposal: If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional office for guidance.

Container Disposal:

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: (For containers greater than 5 gallons) Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. (For containers 5 gallons or less) Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Triple rinse (or equivalent). Then offer for recycling if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Returnable/Refillable Containers - Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

PRODUCT INFORMATION

Turf Use Instructions

F9001-1 SC herbicide is a selective pre-emergence and post-emergence herbicide for control of crabgrass, annual grass and broadleaf weeds and sedges in turf sites including residential and institutional lawns, athletic fields, commercial sod farms, golf course fairways and roughs, roadsides, utility right-of-ways, railways and industrial areas.

F9001-1 SC herbicide is a flowable formulation (suspension concentrate) containing 4.0 lbs. of active ingredient per gallon (1.674 lbs sulfentrazone and 2.226 lbs dithiopyr). The mode of action of F9001-1 SC herbicide involves uptake by both weed roots and shoots of existing weeds and prevention of growth by newly emerged weed seedlings.

MIXING AND APPLICATION INSTRUCTIONS

General Handling Instructions

This product may not be mixed or loaded within 50 feet of any wells (including abandoned wells and drainage wells), sink holes, perennial or intermittent streams and rivers, and natural or impounded lakes and reservoirs. This setback does not apply to properly capped or plugged abandoned wells and does not apply to impervious pad or properly contained mixing/loading areas.

Operations that involve mixing, loading, rinsing or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well, are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specific minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

Product must be used in a manner which will prevent back siphoning in wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.

Spray Tank Preparation

It is important that spray equipment is clean and free of existing pesticide deposits before using this product. Follow the spray tank clean out procedures specified on the label of product previously applied before adding F9001-1 SC herbicide to the tank.

F9001-1 SC herbicide is a suspension concentrate intended for dilution with water.

Mixing With Water

For best results, fill spray tank with one fourth of the volume of clean water needed for the area to be treated. Start the agitation system and add F9001-1 SC herbicide to the tank. Make sure F9001-1 SC herbicide is thoroughly mixed before application or before adding another product to the spray tank.

Mixing With Liquid Fertilizers

The addition of a sprayable nitrogen fertilizer with a nitrogen percentage above 20% may increase herbicidal activity on certain weeds and decrease turf tolerance on desirable turfgrass cultivars. Utilize local recommendations for sources and rates of fertilizer and refer to mixing directions on the fertilizer labels (e.g. UAN or urea solutions). Determine the compatibility of this product with the desired fluid fertilizer by mixing small proportional quantities in advance (See the Tank Mixtures Compatibility section below).

Tank Mixtures Compatibility

F9001-1 SC herbicide is believed to be compatible with most herbicides, fungicides, insecticides, growth regulators, liquid fertilizers and spray adjuvants commonly used in turf and ornamental plant management. However, when preparing a new tank mix conduct an appropriate compatibility test by mixing proportional amounts of all spray ingredients in a test vessel (jar) prior to tank mixing with other products. Shake the mixture vigorously and allow it to stand for five to ten minutes. Rapid precipitation of the ingredients and failure to re-suspend when shaken indicates that the mixture is incompatible and should not be applied. Provided the jar test indicates the mixture to be compatible, prepare the tank mixture as follows: Fill the tank one fourth full with water. With the agitator operating, add the recommended amounts of ingredients using the following order: dry granules first and liquid suspensions (flowable) second. As the agitation continues and the tank is filled with water add EC products third followed by the addition of water soluble products.

Read and observe mixing instructions of all tank mix partners. Also read each product's label for Directions for Use, Precautionary Statements and Restrictions and Limitations. The most restrictive labeling applies in all tank mixtures. No label dosage rate should be exceeded. Tank mixture recommendations are for use only in states where the companion products and application site are registered. In addition, certain states or geographical regions may have established dosage rate limitations. Consult your state Pesticide Control Agency for additional information regarding the maximum use rates.

Use F9001-1 SC herbicide spray mixture immediately after mixing. Do not allow spray solutions to stand or dry in the tank.

Ground Equipment

<u>Power sprayers</u>: Uniform and accurate spray coverage requires proper calibration and operation of spray equipment. The use of marker dyes or foams can improve application accuracy. Boom sprayers equipped with appropriate flat fan nozzles, tips and screens are ideal for broadcast applications. Power sprayers fitted with spray wand/gun may also be used for broadcast application after careful calibration by the applicator. Power sprayers fitted with spray wand/gun are suitable for spot treatments. It is important to avoid over application of this product due to excessive overlapping or spot treatment.

<u>Hand operated sprayers</u>: Backpack and compression sprayers are appropriate for small turfgrass areas and spot treatments. Wands fitted with a flat fan nozzle tip should be held stationary at the proper height during application. A side-to-side or swinging arm motion may result in uneven coverage or excessive application.

Apply this product in a sufficient volume of carrier solution to provide a uniform spray distribution. Spray volumes of 20 - 175 gallons per acre (0.5 to 4.0 gal/1,000 ft²) with spray pressures adjusted to 20 - 40 psi are appropriate. Apply the higher spray volumes for dense weed populations.

Sprayer Equipment Clean-Out

After spraying F9001-1 SC herbicide and before using sprayer equipment for any other applications, the sprayer must be thoroughly cleaned using the following procedure:

- 1. Drain sprayer tank, hoses, and spray boom and thoroughly rinse the inside of the sprayer tank with clean water to remove sediment and residues. In addition, thoroughly flush sprayer hoses, boom, and nozzles with clean water.
- 2. Fill the tank 1/2 full with clean water, and add appropriate detergent or ammonia (follow manufacturer's directions for use). Fill the tank to capacity and operate the sprayer for 15 minutes to flush hoses, boom, and nozzles.
- 3. Drain the sprayer system. Rinse the tank with clean water and flush through the hoses, boom, and nozzles. Remove and clean spray tips and screens separately.
- 4. Properly dispose of all cleaning solution and rinsate in accordance with Federal, State and local regulations and guidelines.

Do not drain or flush equipment on or near desirable trees or plants. Do not contaminate any body of water including irrigation water that may be used on other plants.

SPECIFIC USE INSTRUCTIONS IN TURFGRASS

Established Turf

This product may be used on seeded, sodded or sprigged turfgrasses that are well established. First application of this product can be made following the second mowing providing the grass has developed into a uniform stand with a good root system. Turf injuly may result from application of this product on turf that is not well established or has been weakened by stresses such as unfavorable weather conditions, disease, chemical or mechanical influences.

When applied as directed under the conditions described, the following established grasses are tolerant to F900*-1 EC herbicide at the recommended use rates in a range from 0.375 to 0.874 lb. ai/acre (12.1 to 28.24 fl. oz./acre or 0.28 to 0.65 fl. oz./1,000 sq. ft.). Do not exceed 0.874 lb. ai/acre (28.24 fl. oz./acre) per calendar year.

Table1. Tolerant grasses.

Grass Type	Recommended Use Rates Do not exceed maximum use rates per turf species in a single application		
Cool Season Grasses	Fluid ounces per 1000 ft ²	Fluid ounces per acre	
Bentgrass, creeping ¹ Fescue, fine ² (Festuca rubra) Ryegrass, perennial (Lolium perenne)	0.28-0.65 fl. oz.	12.1-28.24 fl. oz.	
Bluegrass, Kentucky (Poa pratensis) Fescue, tall ² (Festuca arundinacea)	0.28-0.65 fl. oz.	12.1-28.24 fl. oz	
Warm Season Grasses			
Bahiagrass (Paspalum notatum) Buffalograss (Buchloe dactyloides) Carpetgrass (Axonopus affinis) Centipedegrass (Eremochloa ophuiroides) Kikuyugrass (Pennisetum clandestinum) Seashore Paspalum (Paspalum vaginatum) Zoysiagrass (Zoysia japonica)	0.28-0.65 fl. oz.	12.1-28.24 fl. oz.	
Bermudagrass (Cynodon dactylon) & hybrids	0.28-0.65 fl. oz.	12.1-28.24 fl. oz.	

¹ If bentgrass is mowed lower than 0.5 inches do not apply F9001-1 SC herbicide. Do not use on the following cultivars or creeping bentgrass: Carmen, Cohansey, Seaside, and Washington. Colonial bentgrass is not tolerant to F9001-1 SC herbicide.

F9001-1 SC herbicide may be applied more than once per year if needed as long as total amount applied does not exceed the maximum application rate per turf type or 0.874 lbs. ai/acre (28.24 fl. oz./acre), whichever is lower.

- F9001-1 SC herbicide application may cause temporary discoloration to exposed leaf surfaces on certain cultivars of
 zoysiagrass. Treated turfgrass will recover with new growth. Discolored leaf tissue will be removed with mowing. To reduce
 potential for discoloration, do not apply F9001-1 SC on turfgrass that is weakened by weathe r, mechanical, chemical,
 disease or other related stress. Maintain proper cultural practices such as adequate moisture and fertility levels to promote
 healthy turf growth.
- Do not use on hybrid bermudagrass 328 (Tifgreen)
- F9001-1 SC herbicide has demonstrated tolerance on both cool and warm season turfgrasses. However, not all varieties and
 or cultivars have been evaluated. Turfgrass managers desiring to treat newly released varieties should first apply F9001-1 SC
 herbicide to a small area prior to treatment of larger areas.

Weed Controlled with Pre emergence Application

Table 2

Common Name	Scientific Name		
Barnyardgrass	(Echinochloa crus-galli)		
Bluegrass annual 1	(Poa annua)		
Carpetweed	(Mollugo verticillata)		
Carolina Geranium	Geranium carolinianum		
Chickweed, common ²	(Stellaria media)		
Chickweed,mousear (from seed)	(Cerastium vulgatum)		
Crabgrass (large, Smooth, Southern) 3	(Digitaria spp.)		
Cupgrass, Woolly	(Eriochloa villosa)		000000
Dallisgrass	(Paspulum dilatatum)		C C
Foxtails, Annual	(Setaria spp)		0 0
Goosegrass 4	(Eleusine indica)		C
Hairy Bittercress	Cardamine hirsute	0 0 0	0
Henbit ²	(Lamium amplexicaule)	0 0	
Knotweed, prostrate	(Polygonum aviculare)	000000	0 0 0
Kochia	(Kochia scoparia)	0 0	
Kyllinga, green	(Kyllinga brevifolia)	0.0	0
Kyllinga, false	(Kyllinga gracillima)	cocco	cere
Lambsquarters, common	(Chenopodium album)	0 0	
Lawn Burweed	(Soliva pterosperma)	cocce	0 00
Lespedeza, common	(Lespedeza striata)		C
Nutsedge, yellow	(Cyperus esculentus)		0 (
Pancium (Texas,Fall)	(Panicum spp.)		0
Pigweed, Redroot	(Amaranthus retroflexus)		

11/29/2011

² Use of this product on certain varieties of Chewing, Fine Fescue or Tall Fescue cultivars may result in undesirable injury. The following varieties of Fine fescue have show lack of tolerance to F9001-1 SC herbicide: Atlanta, Banner, Beauty, Bilgart, CF-2, Enjoy, HF-93, Highlight, Ivalo, Jamestown, Koket, Majenta, Pennlawn, Tamara, Tatjana, Waldorf and Waldina

Purslane, Common	(Portulaca oleracea)	
Pusley, Florida	(Richardia scabra L.)	
Sedge, globe	(Cyperus globulosus)	
Sedge, cylindrical	(Cyperus retrorsus)	
Sedge, Surinam	(Cyperus surinamensis)	
Sedge, Texas	(Cyperus polystachyos)	
Shephardspurse ²	(Capsella bursa-pastoris)	
Speedwell	(Veronica spp.)	
Spurge, prostrate	(Euphorbia humistrata)	
Woodsorrel, yellow (from Seed)	(Oxalis stricta)	

- Poa annua is a winter annual. Applications of F9001 should be made in August or September to established, non overseeded turf before Poa Annua germinates. Consult local Cooperative Extension Service for more specific applications timings for your local area since August and September are approximate timings.
- 2. Apply F9001-1 SC herbicide in late summer, fall or winter before weed germinates for control.
- Crabgrass control in cool season grasses from fall application: Areas where the ground is subject to winter freezes, F9001-1 SC herbicide may be applied in the fall at rates listed in Table 1 (12.1-28.24 fluid ounces per acre) for cool season grasses when soil temperatures are below 50°F, but prior to the ground freezing. This will provide control of crabgrass the following spring.
- 4. In areas of extended growing season and heavy pressure weed control will be enhanced by second application of F9001-1 SC herbicide 60-90 days after initial application

Postemergence Control of Annual, Biennial & Perennial Broadleaf Weeds, Grasses and sedges

F9001-1 SC herbicide will control or suppress the weeds listed in Table 3 when applied shortly after weeds have emerged. Do not exceed the application rate specified for the turf species in Table 1. Do not apply adjuvants or surfactants with post applications of F9001-1 SC herbicide unless tested on small areas prior to broadcast applications.

Weeds Controlled or Suppressed When Application Made Postemergence to Weeds

Table 3

Common Name	Scientific Name	Controlled	Suppressed
Bittercress	(Cardamine spp.)		X
Black medic	(Medicago lupulina)		X
Buttercups	(Ranunculus spp.)		X
Carolina geranium	(Geranium carolinianum)	1	
Carpetweed	(Mollugo verticillata)		X
Chickweed, common	(Stellaria media)	1	
Chickweed, mousear	(Cerastium vulgatum)		X
Cinquefoil	(Potentilla spp.)		X
Clover	(Trifolium spp.)		X
Crabgrass (Large and Smooth)	(Digitaria spp.)	2	
Cudweed	(Gnaphalium spp.)		X
Dandelion	(Taraxacum officinale)		X
Dock, Curly	(Rumex crispus)		X
Evening primrose	(Oenothera biennis)		X
Fiddleneck	(Amsinckia spp.)		X
Filaree	(Erodium spp.)		X
Goldenrod	(Solidago spp.)	1	
Goosegrass	(Eleusine indica)	2	
Ground ivy	(Glechema hederacea)		X
Henbit	(Lamium amplexicaule)		X
Knotweed, prostrate	(Polygonum aviculare)		X
Kochia	(Kochia scoparia)	1	
Lambsquarters, common	(Chenopodium album)		X
Lawn burweed	(Soliva pterosperma)		X
Lespedeza, common	(Lespedeza striata)		X
Mallow, common	(Malva neglecta)		X
Nutsedge, Yellow	(Cyperus esculentus)	1	00000
Parsley piert	(Alchemilla arvensis)	1	ccccc
Pigweed, Redroot	(Amaranthus retroflexus)	1	0 0 0
Pigweed, Tumble	(Amaranthus albus)	1	0 0
Pineapple weed	(Matricaria matricarioides)		00000
Plantain, buckhorn	(Plantago lanceolata)	1	0 0 0000
Puncture weed	(Tribulus terrestris)		X
Purslane, common	(Portulaca oleracea)		X
Pusley, Florida	(Richardia scabra)	1	neect
Redweed	(Melochia corchorifolia)		X
Rocket, London	(Sisymbrium irio)		X
Smartweed, Pennsylvania	(Polygonum pensylvanicum)	1	CCCC
Sorrel, Red	(Rumex acetosella)		X

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Speedwell	(Veronica spp.)	1	
Spurge, (annuals)	(Euphorbia spp.)	1	
Spurge, prostrate	(Euphorbia humistrata)	1	
Spurge, spotted	(Euphorbia maculata)	1	
Star of Bethlehem	(Ornithogalum umbellatum)	1	
Velvetleaf	(Abutilon theophrasti)		X
Violet, wild	(Viola pratincola)		X
Wild garlic	(Allium vineale)		X
Wild onion	(Allium canadense)		X
Woodsorrel, creeping	(Oxalis corniculata)		X
Woodsorrel, yellow	(Oxalis stricta)	1	

- 1. Weeds are suppressed at lower label rates (<20 fl.oz/acre). For optimum control apply rates of at least 20 fl.oz.per acre in a single application. Do not exceed the application rate specified for the turf species in Table 1.
- 2. F9001-1 SC herbicide controls crabgrass and goosegrass when applied postemergent to newly emerged weeds from the 1-4 leaf to the 2-4 tillering stage has been initiated.

Early Postemergence Control

Application of F9001-1 SC herbicide provides early postemergence control of crabgrass and goosegrass when applied by the 2-4 tillering stage of development. Applications should be made as soon as undesirable grass is observed for best results.

Application to Reseeded, Overseeded or Sprigged areas

Reseeding, overseeding or sprigging of treated areas within three to four (3-4) months after application of this product could inhibit the establishment of desirable grasses. However, perennial ryegrass may be overseeded into bermudagrass 8 weeks after application of F9001-1 SC herbicide if slight injury to the ryegrass is acceptable.

Best results are obtained for reseeding or overseeding when mechanical or power seeding equipment (slit seeders) are used to give good seed to soil contact and proper soil cultivation, irrigation and fertilization practices are followed.

Sod Production

It is recommended that sod be established for at least six (6) months before an application of F9001-1 SC herbicide. Do not apply this product within three (3) months of harvest.

Other Use Precautions

Do not apply to golf course putting greens or tees.

Do not use on turgrasses other than those listed on this label.

Do not graze or feed livestock, forage cut from areas treated with F9001-1 SC herbicide.

Do not apply to areas where dichondra, colonial bentgrass, velvet bentgrass or annual bluegrass (Poa annua) are desirable species.

Do not apply to creeping bentgrass if mowing height is less than 0.5 inch.

Do not apply to newly set sod until the sod has rooted and exposed edges have grown in.

Do not mulch vegetables or fruit trees with clippings from turf treated with F9001-1 SC herbicide.

Do not apply with adjuvants or surfactants.

Temporary turfgrass discoloration has been observed when Primo has been either tank-mixed or applied within 7 days of a F9001-1 SC herbicide application. It is recommended that Primo applications be made 7 days prior to, or after F9001-1 SC herbicide application to reduce risk of turfgrass discoloration.

ADDITIONAL USE INSTRUCTIONS

Preemergence control of annual broadleaf weeds and sedges

F9001 Herbicide will control or suppress the weeds listed in Table2. When applied prior to weed germination, apply F9001 Herbicide at a rate of 12 to 28.24 fl oz/acre. To broaden the weed spectrum and increase effectiveness for certain weeds listed in Table 2, F9001 Herbicide may be tank mixed with other EPA registered pre-emergence herbicides. Refer to the Tank Mixtures Compatibility section of this label to determine compatibility of tank mixtures. Consult the label for application instructions for each of the tank mix products. Follow all label restrictions, use directions and precautionary statements before using these tank mixtures. Control of emerged annual grass weeds may be improved by combining F9001 Herbicide with other post emergence herbicides.

POSTEMERGENCE CONTROL OF ANNUAL, BIENNIAL & PERENNIAL BROADLEAF WEEDS

F9001 Herbicide will control or suppress the weeds listed in Table 2 when applied alone shortly after weeds have emerged. Apply F9001herbicide at rates from 12 to28.24 fl. oz/acre (0.28 to 0.65 fl. oz./1,000 sq. ft.). To broaden the weed spectrum and increase effectiveness for certain weeds listed in Table 2, F9001 Herbicide may be tank mixed with other EPA registered postemergence

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herbicides. Refer to the Tank Mixtures Compatibility section of this label to determine compatibility of tank mixtures. Consult the label for application instructions for each of the tank mix products. Follow all label restrictions, use directions and precautionary statements before using these tank mixtures. Control of emerged annual grass weeds may be improved by combining F9001 Herbicide with other registered post emergence herbicides.

Railroad Rights-of-Way

Controls many weeds and maintains bare ground on railroad rights-of-way, including railroad yards, railroad crossings and railroad bridge abutments.

Highway, Roadside, Pipeline and Utility Rights-of-Way

Controls many weeds and maintains bare ground in highway, roadside, pipeline and utility rights-of-way. Such areas would include, but are not limited to, guardrails, road shoulders, electric utility substations, pipeline pumping stations, around electric transmission towers, around distribution line poles plus other areas where complete vegetation control is desired.

Industrial Areas, Fence Rows and Other Non-crop Sites

Controls weeds and maintains bare ground in industrial areas including production facilities, tank farms, storage areas, parking areas, lumber yards, airports, military installations, along fence rows, and in similar non-crop sites where complete vegetation control is needed.

CONDITIONS OF SALES AND LIMITATIONS OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control or FMC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold FMC and Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT. Any warranties, express or implied, having been made are inapplicable if this product has been used contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) seller or FMC, and to the extent consistent with applicable law, buyer assumes the risk of any such use.

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