



OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

WASHINGTON, D.C. 20460

September 18, 2024

Catherine Rice
Product Registration Manager
FMC Corporation
2929 Walnut Street
Philadelphia, PA 19104

Subject: Label Amendment - Registration Review Mitigation for Sulfentrazone & Dithiopyr
Product Name: F9001-2 0.45G Herbicide on Fertilizer
EPA Registration Number: 279-9541
Application Dates: May 28, 2021 & September 28, 2022
Decision Numbers: 576140 & 587858

Dear Catherine Rice:

The Agency, in accordance with the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, has completed reviewing all the information submitted with your application to support the Registration Review of the above referenced product in connection with the Sulfentrazone and Dithiopyr Interim Decisions, and has concluded that your submission is acceptable. The label referred to above, submitted in connection with registration under FIFRA, as amended, is acceptable.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling and must be used at your next label printing. You must submit one copy of the final printed labeling before you release the product for

shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 12 months from the date of this letter. After 12 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions about this letter, please contact Caleb Carr by phone at (202) 566-0636, or via email at carr.caleb@epa.gov.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Linda Arrington', with a stylized flourish at the end.

Linda Arrington, Branch Chief
Risk Management and Implementation Branch 4
Pesticide Re-Evaluation Division
Office of Pesticide Programs

ENCLOSURE: Stamped label

Sulfentrazone	Group	14	Herbicide
Dithiopyr	Group	3	Herbicide

F9001-2 0.45 G Herbicide on Fertilizer

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, Industrial areas and container/field grown ornamental plantings.

EPA Reg. No. 279-9541

EPA Est.

Active Ingredients

Sulfentrazone 0.195%

Dithiopyr 0.255%

Other Ingredients 99.550%

100.000%

[U.S. Patent No.]

Guaranteed Analysis XX-X-XX

Total Nitrogen (N) XX.XX %

XX.XX% Urea Nitrogen

Soluble Potash (K₂O) XX.XX %

Sulfur (S) Total XX.XX %

X.XX % Free Sulfur (S)

X.XX % Combined Sulfur (S)

Iron (Fe) Total X.XX %

X.XX % Soluble Iron (Fe)

Derived From: Poly Coated Sulfur Coated Urea, Sulfate

Of Potash, Iron Sucrate.

Chlorine (Cl) Max. X.XX %

KEEP OUT OF REACH OF CHILDREN

CAUTION

See [other][additional][[side][front][back]panels] [[inside] booklet] for additional precautionary information.

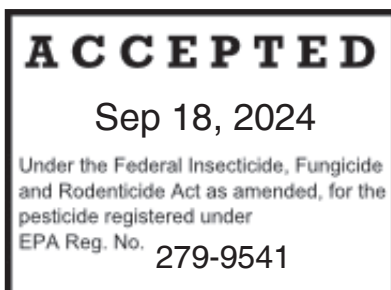


FMC Corporation
2929 Walnut Street
Philadelphia PA 19104

Net weight:

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FIRST AID	
IF SWALLOWED	<ul style="list-style-type: none"> • 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	<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.
MEDICAL HOTLINE 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 1-800-331-3148 for emergency medical treatment information.	
NOTE TO PHYSICIAN	
This product is expected to have low oral toxicity. It is mildly irritating to the eyes. Reversible skin sensations (paresthesia) may occur and ordinary skin salves have been found useful in reducing discomfort. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care.	

For Technical Support or information regarding the use of this product, Call 1-800-321-1FMC(1362)

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Harmful if swallowed. Causes moderate eye irritation. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Avoid contact with eyes, or clothing.

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 adjacent areas. Do not contaminate water when disposing of equipment wash waters or rinsate.

NON-TARGET ORGANISM ADVISORY: This product is toxic to plants and may adversely impact the forage and habitat of non-target organisms, including pollinators, in areas adjacent to the treated site. Protect the forage and habitat of non-target organisms by following label directions.

Groundwater advisory: The active ingredients in this product are known to leach though soil into groundwater. This product may leach into groundwater if used in areas where soils are permeable, particularly where the water table is shallow.

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

Surface water advisory: This product may impact surface water quality due to runoff of rainwater. This is especially true for poorly draining soils and soils with shallow ground. This product is classified as having a high potential for reaching surface water via runoff for several months after application.

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, waterproof gloves, 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.

PRODUCT INFORMATION

F9001-2 0.45 G HERBICIDE ON FERTILIZER 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.

F9001-2 0.45 G HERBICIDE ON FERTILIZER is a granular formulation containing 0.0045 lbs. total active ingredients (0.00195 lb sulfentrazone and 0.00255 lb dithopyr) per one pound of product. The mode of action of F9001-2 0.45 G HERBICIDE ON FERTILIZER involves uptake by both weed roots and shoots of existing weeds and prevention of growth by newly emerged weed seedlings.

Weed Resistance Management

For resistance management, please note that F9001-2 0.9 G HERBICIDE contains both a Group 14 [Sulfentrazone] and a Group 3 [Dithopyr] herbicide as classified by the Weed Science Society (WSSA) classification group. Any weed population may contain plants naturally resistant to Group 14 and/or Group 3 herbicides. The resistant individuals may dominate the weed population if these herbicides are used repeatedly in the same area. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance, take one or more of the following steps:

- Rotate the use of F9001-2 0.9 G HERBICIDE or other Group 14 and/or Group 3 herbicides within a growing season sequence or among growing seasons with different herbicide groups that control the same weeds.
- Use tank mixtures with herbicides from a different group if such use is permitted; where information on resistance in target weed species is available, use the less resistance-prone partner at a rate that will control the target weed(s) equally as well as the more resistance-prone partner. Consult your local extension service or pest control advisor if you are unsure as to which active ingredient is currently less prone to resistance.
- Adopt an integrated weed-management program for herbicide use that includes scouting and uses historical information related to herbicide use and that considers mechanical control methods, cultural (e.g., timing to favor the turf and not the weeds), biological (weed-competitive varieties) and other management practices.
- Scout area before herbicide application for identification of species and sizes.
- Scout after herbicide application to monitor weed populations for early signs of resistance development. Indicators of possible herbicide resistance include: (1) failure to control a weed species normally controlled by the herbicide at the dose applied, especially if control is achieved on adjacent weeds; (2) a spreading patch of non-controlled plants of a particular weed species; (3) surviving plants mixed with controlled individuals of the same species. If resistance is suspected, prevent weed seed production in the affected area by an alternative herbicide from a different group or by a mechanical method. Prevent movement of resistant weed seeds to other areas by cleaning equipment.
- If a weed pest population continues to progress after treatment with this product, discontinue use of this product, and switch to another management strategy or herbicide with a different mode of action, if available.

Contact your local FMC market specialist or university researcher for additional pesticide resistance-management and/or integrated weed-management recommendations for specific types of turf and weed biotypes. Report herbicide failure to your local extension specialist, certified crop advisors, and/or sulfentrazone registrants.

WEED CONTROL IN TURFGRASS

Turfgrass Safety

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 injury 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.

F9001-2 0.45 G Herbicide on Fertilizer 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 F9001-2 0.45 G HERBICIDE ON FERTILIZER on turfgrass that is weakened by weather, mechanical, chemical, disease or other related stress. Maintain proper cultural practices such as adequate moisture and fertility levels to promote healthy turf growth.

Restrictions

- Do not apply to golf course putting greens or tees.
- Do not use on turfgrasses other than those listed on this label.
- Do not graze or feed livestock, forage cut from areas treated with F9001-2 0.45 G HERBICIDE ON FERTILIZER.
- 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 F9001-2 0.45 G HERBICIDE ON FERTILIZER.
- Do not apply with adjuvants or surfactants.
- Do not apply more than 0.5 lbs dithiopyr/acre per application.
- Do not apply more than 1.5 lbs dithiopyr/acre/year when applying any dithiopyr-containing product.
- Do not apply more than 0.375 lbs sulfentrazone/acre/year when applying any sulfentrazone-containing product.

Use Precautions

- F9001-2 0.45 G HERBICIDE ON FERTILIZER 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 F9001-2 0.45 G HERBICIDE ON FERTILIZER to a small area prior to treatment of larger areas.
- Temporary turfgrass discoloration has been observed when Primo has been either tank-mixed or applied within 7 days of a F9001-2 0.45 G HERBICIDE ON FERTILIZER application. It is recommended that Primo applications be made 7 days prior to, or after F9001-2 0.45 G HERBICIDE ON FERTILIZER application to reduce risk of turfgrass discoloration.

SPECIFIC USE INSTRUCTIONS IN TURFGRASS

Use rate conversion				
lbs product per 1000 sq ft	lbs Sulfentrazone per acre	lbs. Dithiopyr per acre	lbs total ai per acre	lbs product per acre
1.9	0.16	0.21	0.37	83
2.9	0.19	0.25	0.44	100
3.2	0.27	0.36	0.63	140
4.4	0.374	0.49	0.864	192

When applied as directed under the conditions described, the following established grasses are tolerant to F9001-2 0.45 G HERBICIDE ON FERTILIZER at the recommended use rates in a range from 0.37 - 0.864 lbs total ai per acre (83 - 192 lbs product per acre or 1.9 to 4.4 lbs product per 1000 sq ft).

Table 1. Tolerant grasses

Grass Type	Single Application Use Rates		
	Refer to the “per species” maximum single application use rates.		
	This product may be applied more than once per year as long as the maximum annual application rate for each active is not exceeded.		
	lbs total ai per acre	lbs product per 1000 sq ft	lbs product per acre
Cool Season Grasses			
Bentgrass, creeping ¹ Fescue, fine ² (<i>Festuca rubra</i>) Ryegrass, perennial (<i>Lolium perenne</i>)	0.37- 0.864	1.9 – 4.4	83 – 192
Bluegrass, Kentucky (<i>Poa pratensis</i>) Fescue, tall ² (<i>Festuca arundinacea</i>)	0.37- 0.864	1.9 – 4.4	83 – 192
Warm Season Grasses			
Bahiagrass (<i>Paspalum notatum</i>) Buffalograss (<i>Buchloe dactyloides</i>) Carpetgrass (<i>Axonopus affinis</i>) Centipedegrass (<i>Eremochloa ophiuroides</i>) Kikuyugrass (<i>Pennisetum clandestinum</i>) Seashore Paspalum (<i>Paspalum vaginatum</i>) Zoysiagrass (<i>Zoysia japonica</i>)	0.37- 0.864	1.9 – 4.4	83 – 192
Bermudagrass (<i>Cynodon dactylon</i>) & hybrids ³	0.37- 0.864	1.9 – 4.4	83 – 192
<p>1 If bentgrass is mowed lower than 0.5 inches do not apply F9001-2 0.45 G HERBICIDE ON FERTILIZER. Do not use on the following cultivars or creeping bentgrass: Carmen, Cohansey, Seaside, and Washington. Colonial bentgrass is not tolerant to F9001-2 0.45 G HERBICIDE ON FERTILIZER.</p> <p>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 shown lack of tolerance to F9001-2 0.45 G HERBICIDE ON FERTILIZER: Atlanta, Banner, Beauty, Bilgart, CF-2, Enjoy, HF-93, Highlight, Ivalo, Jamestown, Koket, Majenta, Pennlawn, Tamara, Tatjana, Waldorf and Waldina.</p> <p>3 Do not use on hybrid bermudagrass 328 (Tifgreen).</p>			

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 F9001-2 0.45 G HERBICIDE ON FERTILIZER 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 F9001-2 0.45 G HERBICIDE ON FERTILIZER.

Do not apply this product within three (3) months of harvest.

PREEMERGENCE CONTROL OF ANNUAL BROADLEAD WEEDS

F9001-2 0.45 G HERBICIDE ON FERTILIZER will provide preemergence control of the weeds listed in Table 2 when applied prior to weed germination. Do not exceed the application rate specified for the turf species in Table 1.

Table 2. Weeds Controlled with Preemergence Application

Common Name	Scientific Name
Barnyardgrass	<i>Echinochloa crus-galli</i>
Bluegrass annual ¹	<i>Poa annua</i>
Carpetweed	<i>Mollugo verticillata</i>
Carolina Geranium	<i>Geranium carolinianum</i>
Chickweed, common ²	<i>Stellaria media</i>
Chickweed, mouseear (from seed)	<i>Cerastium vulgatum</i>
Crabgrass (large, Smooth, Southern) ³	<i>Digitaria spp.</i>
Cupgrass, Woolly	<i>Eriochloa villosa</i>
Dallisgrass	<i>Paspalum dilatatum</i>
Foxtails, Annual	<i>Setaria spp.</i>
Goosegrass ⁴	<i>Eleusine indica</i>
Hairy Bittercress	<i>Cardamine hirsute</i>
Henbit ²	<i>Lamium amplexicaule</i>
Knotweed, prostrate	<i>Polygonum aviculare</i>
Kochia	<i>Kochia scoparia</i>
Kyllinga, green	<i>Kyllinga brevifolia</i>
Kyllinga, false	<i>Kyllinga gracillima</i>
Lambsquarters, common	<i>Chenopodium album</i>
Lawn Burweed	<i>Soliva pterosperma</i>
Lespedeza, common	<i>Lespedeza striata</i>
Panicum (Texas, Fall)	<i>Panicum spp.</i>
Pigweed, Redroot	<i>Amaranthus retroflexus</i>
Purslane, Common	<i>Portulaca oleracea</i>
Pusley, Florida	<i>Richardia scabra L.</i>
Shephardspurse ²	<i>Capsella bursa-pastoris</i>
Speedwell	<i>Veronica spp.</i>
Spurge, prostrate	<i>Euphorbia humistrata</i>
Woodsorrel, yellow (from Seed)	<i>Oxalis stricta</i>

1 Poa annua is a winter annual. Applications of F9001-2 0.45 G HERBICIDE ON FERTILIZER 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 F9001-2 0.45 G HERBICIDE ON FERTILIZER in late summer, fall or winter before weed germinates for control.

3 Crabgrass control in cool season grasses from fall application: Areas where the ground is subject to winter freezes, F9001-2 0.45 G HERBICIDE ON FERTILIZER may be applied in the fall at rates listed in Table 1 (83 – 192 lbs product 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 F9001-2 0.45 G HERBICIDE ON FERTILIZER 60-90 days after initial application.

POSTEMERGENCE CONTROL OF ANNUAL, BIENNIAL & PERENNIAL BROADLEAF WEEDS, GRASSES AND SEDGES

F9001-2 0.45 G HERBICIDE ON FERTILIZER 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.

Table 3. Weeds Controlled or Suppressed When Application Made Postemergence to Weeds

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

Common Name	Scientific Name	Controlled	Suppressed
Violet, wild	<i>Viola pratincola</i>		X
Wild garlic	<i>Allium vineale</i>		X
Wild onion	<i>Allium canadense</i>		X
Woodsorrel, creeping	<i>Oxalis corniculata</i>		X
Woodsorrel, yellow	<i>Oxalis stricta</i>	1	
<p>1 Weeds are suppressed at lower label rates <100 lbs product (0.44 total ai) per acre. For optimum control apply rates of at least 100 lbs product per acre in a single application. Do not exceed the application rate specified for the turf species in Table 1.</p> <p>2 F9001-2 0.45 G HERBICIDE ON FERTILIZER 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.</p>			

Early Postemergence Control

Application of F9001-2 0.45 G HERBICIDE ON FERTILIZER 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.

CONTAINER, FIELD GROWN ORNAMENTAL PLANTINGS

Restrictions

- Do not apply to areas where ornamental bulbs or dormant non-woody perennials are present. F9001-2 0.45 G HERBICIDE ON FERTILIZER is soil active and may damage these plants upon emergence.
- Do not use on food producing trees, vines, or plants.
- Do not apply more than 0.5 lbs dithiopyr/acre per application.
- Do not apply more than 1.5 lbs dithiopyr/acre/year when applying any dithiopyr-containing product.
- Do not apply more than 0.375 lbs sulfentrazone/acre/year when applying any sulfentrazone-containing product.

Use Precautions

- To reduce plant injury, apply F9001-2 0.45 G HERBICIDE ON FERTILIZER as a site directed to the soil at the base of the plant. Avoid application directly to plant foliage where possible; however if foliage contacted during application apply overhead irrigation to the foliage to wash F9001-2 0.45 G HERBICIDE ON FERTILIZER from plant surfaces onto soil.

SPECIFIC USE INSTRUCTIONS FOR CONTAINER, FIELD GROWN ORNAMENTAL PLANTINGS

- Direct application toward the base of the plant. Do not spray over-the-top. Direct application of F9001-2 0.45 G HERBICIDE ON FERTILIZER to actively growing foliage can cause unacceptable injury to desirable plants.
- Most effective when applied to soil free of clods, weeds, debris such as leafs or mulch.
- Most effective when the product is activated in the soil before weed seeds germinate if applied as pre-emergence herbicide and is activated when the treated area receives at least 0.25 inches of irrigation or rainfall.

Use rate conversion				
lbs product per 1000 sq ft	lbs Sulfentrazone per acre	lbs. Dithiopyr per acre	lbs total ai per acre	lbs product per acre
1.9	0.16	0.21	0.37	83
3.2	0.27	0.36	0.63	140
4.4	0.374	0.49	0.864	192

Tolerant Ornamental Species

The species listed below in Table 4 are tolerant to F9001-2 0.45 G HERBICIDE ON FERTILIZER. When plants are under stress (such as heat, drought, or frost damage), some cultivars of listed plants may be sensitive to F9001-2 0.45 G HERBICIDE ON FERTILIZER.

Table 4. Tolerant Ornamental Species

Common name	Scientific name
Abelia	<i>Abelia X grandiflora</i>
Arborvitae	<i>Thuja spp.</i>
Azalea and Rhododendron	<i>Rhododendron sp.</i>
Birch, River	<i>Betula nigra</i>
Boxwood Species	<i>Buxus spp.</i>
Bridal - Wreath	<i>Spirea spp.</i>
Butterfly Bush	<i>Buddleia davidii</i>
Camellia	<i>Camellia spp.</i>
Cedar, Red	<i>Juniperus virginiana</i>
Crape Myrtle	<i>Lagerstroemia indica</i>
Creeping Juniper	<i>Juniperus horizontalis</i>

Common name	Scientific name
Cypress, Bald	<i>Taxodium distichum</i>
Cypress, Leyland	<i>Cupressocyparis leylandii</i>
Dogwood	<i>Cornus florida</i>
Douglas Fir	<i>Pseudotsuga menziesii</i>
Dwarf Yaupon Holly	<i>ILex vomitoria 'Nana'</i>
Fir Species (Fraser, Balsam, etc)	<i>Abies fraseri</i>
Forsythia	<i>Forsythia X intermedia</i>
Hawthorne	<i>Crataegus spp.</i>
Holly	<i>Llex spp.</i>
Holly, Meserve	<i>ILex x meserveae</i>
Juniper	<i>Juniperus spp.</i>
Laurel, mountain	<i>Kalmia latifolia</i>
Ligustrum, Japanese	<i>Ligustrum japonicum</i>
Maple	<i>Acer spp.</i>
Norway Spruce	<i>Abies picea</i>
Oak	<i>Quercus spp.</i>
Pine	<i>Pinus, Spp.</i>
Privet	<i>Ligustrum japonicum</i>
Pyracantha	<i>Pyracantha spp.</i>
Rose	<i>Rosa sp.</i>
Rhododerndron	<i>Rhododerndron spp.</i>
Southern Magnolia	<i>Magnolia gradiflora</i>
Spruce	<i>Picea, spp.</i>
Yew	<i>Taxus sp.</i>

Application Sites and Instructions

Site	Application Instructions
Newly-Transplanted Container or Field Nursery Stock	<ol style="list-style-type: none"> 1. Apply after new transplant material has formed roots and is well established. 2. Do not apply until soil has settled around transplants. 3. Direct application toward base of plant to avoid terminal and bud area of plant.
Established Container, Field Nursery Stock, or Landscape Plants	Apply at any time as a directed spray toward the base of the plant.

How Much F9001-2 0.45 G HERBICIDE ON FERTILIZER to Apply

Amount to Apply (Broadcast)*	Comments
83 – 192 lbs product per acre	<ol style="list-style-type: none"> 1. Higher rates needed for sedges and perennial weeds. 2. Multiple applications may be made if needed as long as total amount applied in one year does not exceed 192 lbs product per acre.
1.9 – 4.4 lbs product per 1000 sq ft	<ol style="list-style-type: none"> 3. Direct application toward base of plants

PREEMERGENCE CONTROL OF ANNUAL BROADLEAF WEEDS

F9001-2 0.45 G HERBICIDE ON FERTILIZER will control or suppress the weeds listed in Table 2 when applied prior to weed germination. Apply F9001-2 0.45 G HERBICIDE ON FERTILIZER at a rate of 83 – 192 lbs product per acre. Do not exceed the applicate rate specified for the ornamental species listed in Table 4.

To broaden the weed spectrum and increase effectiveness for certain weeds listed in Table 2, F9001-2 0.45 G HERBICIDE ON FERTILIZER may be used in conjunction with other EPA registered pre-

emergence herbicides. Follow all label restrictions, use directions and precautionary statements before using other products with F9001-2 0.45 G HERBICIDE ON FERTILIZER. Control of emerged annual grass weeds may be improved by combining F9001-2 0.45 G HERBICIDE ON FERTILIZER with other post emergence herbicides.

POSTEMERGENCE CONTROL OF ANNUAL, BIENNIAL & PERENNIAL BROADLEAF WEEDS AND SEDGES

F9001-2 0.45 G HERBICIDE ON FERTILIZER will control or suppress the weeds listed in Table 3 when applied alone shortly after weeds have emerged. Apply F9001-2 0.45 G HERBICIDE ON FERTILIZER herbicide at rates from 140 – 192 lbs product per acre (3.2 to 4.4 lbs product per 1000 sq ft). Do not exceed the applicate rate specified for the ornamental species listed in Table 4.

To broaden the weed spectrum and increase effectiveness for certain weeds listed in Table 3, F9001-2 0.45 G HERBICIDE ON FERTILIZER may be used in conjunction with other EPA registered postemergence herbicides. Follow all label restrictions, use directions and precautionary statements before using other products with F9001-2 0.45 G HERBICIDE ON FERTILIZER. Control of emerged annual grass weeds may be improved by combining F9001-2 0.45 G HERBICIDE ON FERTILIZER with other registered post emergence herbicides.

ADDITIONAL USE INSTRUCTIONS

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.

Use Restrictions

- Do not apply more than 0.5 lbs dithiopyr/acre per application.
- Do not apply more than 1.5 lbs dithiopyr/acre/year when applying any dithiopyr-containing product.
- Do not apply more than 0.375 lbs sulfentrazone/acre/year when applying any sulfentrazone-containing product.

Use rate conversion				
lbs product per 1000 sq ft	lbs Sulfentrazone per acre	lbs. Dithiopyr per acre	lbs total ai per acre	lbs product per acre
1.9	0.16	0.21	0.37	83
3.2	0.27	0.36	0.63	140
4.4	0.374	0.49	0.864	192

PREEMERGENCE CONTROL OF ANNUAL BROADLEAF WEEDS

F9001-2 0.45 G HERBICIDE ON FERTILIZER will control or suppress the weeds listed in Table 2 when applied prior to weed germination. Apply F9001-2 0.45 G HERBICIDE ON FERTILIZER at a rate of 83 – 192 lbs product per acre.

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STORAGE AND DISPOSAL

Do not contaminate water, food or 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 CHEMTREC (Transportation and spills): (800) 424-9300.

To confine spill: 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. 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.

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 of FMC or Seller. To the extent consistent with applicable law, 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.

To the extent consistent with applicable law, FMC or seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF FMC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF FMC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

This Conditions of Sale and Limitation of Warranty and Liability may not be amended by any oral or written agreement.