



**DEPARTMENT of AGRICULTURE  
and NATURAL RESOURCES**

JOE FOSS BUILDING  
523 E CAPITOL AVE  
PIERRE SD 57501-3182  
danr.sd.gov

April 2, 2024

Document Processing Desk (SLN)  
Office of Pesticide Programs-(7504C)  
U.S. Environmental Protection Agency  
1200 Pennsylvania Avenue NW  
Washington, DC 20460-0001

Re: Special Local Need Registration, SD 240002 Spartan 4F Herbicide, EPA reg. No. 279-3220, for use on mint as a renovation application to control broadleaf weeds.

Dear Sir or Madam

Enclosed please find the labels for the following Special Local Need registration.

SD 240002 FMC Corporation, Spartan 4F Herbicide (279-3220)

The purpose of the Special Local Need registration is to allow for the application of Spartan 4F Herbicide to mint between cuttings of double cut mint and post-harvest.

If you have any questions, please contact me at (605) 773-4432.

Sincerely,

Tom Gere

Environmental Scientist Manager  
Inspection, Compliance and Remediation Program

Cc: FMC Corporation



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April 2, 2024

Cristina Rodriguez  
FMC Corporation  
Senior Product Registration Manager  
2929 Walnut St  
Philadelphia, PA 19104

Re: Special Local Need Registration, SD 240002 Spartan 4F Herbicide, EPA reg. No. 279-3220

Dear Cristina,

On April 2, 2024, The South Dakota Department of Agriculture and Natural Resources approved your application for Special Local Need (24c) registration of Spartan 4F Herbicide. This registration has been assigned the Special Local Need registration number SD-240002. Enclosed is a copy approved application form and label.

We are notifying the United States Environmental Protection Agency of this action by submission of a copy of this letter, your approved application, and label.

If you have any questions, please contact me at (605) 773-4432.

Sincerely,

Tom Gere  
Environmental Scientist Manager  
Inspection, Compliance and Remediation Program

Cc: US Environmental Protection Agency



An Agricultural  
Sciences Company

**FMC Corporation**  
2929 Walnut Street  
Philadelphia, PA 19104  
USA

215.299.6000  
fmc.com

March 26, 2024

Tom Gere  
Pesticide Program  
South Dakota Department of Agriculture  
Pierre, SD

**SUBJECT: Spartan 4F (EPA Reg. No. 279-3220)  
FIFRA Section 24(c) Special Local Need Application  
For Use on Mint as a Renovation Application (For use post harvest after cuttings)  
to Control Broadleaf Weeds.**

FMC Corporation hereby applies for FIFRA Section 24 (c) Special Local Need for Use on Mint as a Renovation Application (for use post harvest after cuttings) to Control Broadleaf Weeds for Spartan 4F Herbicide (EPA Reg No 279-3220).

Spartan 4F has been registered for use on mint (established mint during dormancy and preplant to new plantings) since 2003. But the registration was amended in 2018 to add use on mint during "renovation" (for use between cuttings and post harvest). Up to the present time, the renovation use has only been available on a Spartan 4F federal supplemental label that was approved on 06/29/2018 and that expired on 06/26/2021.

Currently, FMC has a Section 3 registration amendment pending at EPA that will incorporate this mint/renovation use onto the main product label, however, this amendment was held up because of other changes related to the sulfentrazone registration review that has taken longer than expected at EPA. Therefore, the mint renovation use is not available on the Spartan 4F product on the marketplace and there are no other EPA-registered sulfentrazone products that include the mint/renovation use pattern on the Section 3 registration.

Enclosed, please find the following documents to support this FIFRA Section 24(c) Special Local Need for Use on Mint as a Renovation Application (for use between cuttings and post harvest) to Control Broadleaf Weeds for Spartan 4F Herbicide (EPA Reg No 279-3220):

- EPA Form 8570-25 Application for/Notification of State Registration of a Pesticide to Meet a Special Local Need
- Spartan 4 F Draft SLN label code DR-4781 032624
- Spartan 4 F Herbicide Current Sect 3 label (SL-4742A 080922 05-17-17)
- Spartan 4 F EPA Stamped Approved Supplemental
- Mint Industry Research Council Letter of Support

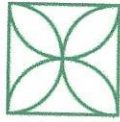
If you have any questions or comments, please contact me at (302) 318-9997 or via email at  
[Cristina.rodriquez@fmc.com](mailto:Cristina.rodriquez@fmc.com)

Sincerely,

A handwritten signature in black ink, appearing to read 'Cristina Rodriguez'.

**Cristina Rodriguez**  
Senior Product Registration Manager





## Mint Industry Research Council

February 16, 2023

Tom Gere  
Pesticide Program  
South Dakota Department of Agriculture  
523 East Capitol Ave  
Pierre, SD 57501

RE: Section 24C SLN registration for FMC's Spartan herbicide (sulfentrazone) for use between cuttings and post-harvest.

Dear Tom,

On behalf of the United States mint industry, the Mint Industry Research Council is submitting this letter of support for the SLN 24C registration request for Spartan herbicide use between cuttings of double-cut mint and post-harvest in South Dakota. Spartan is a pre-emergent soil-active herbicide that can effectively control problem weeds in peppermint and spearmint production such as pigweeds, bedstraw, kochia, nutsedge, waterhemp and Russian thistle.

The need for the SLN registration is a result of the supplemental label (EPA Reg. No 279-3220) that expired on June 26, 2021. This supplemental label includes the use pattern titled "Renovation" which allows for an application between cuttings of double-cut mint and post-harvest. Unfortunately, the Section 3 registration review of the updated Spartan label, which includes the Renovation use pattern, is not completed at this time. This unfortunate regulatory timing leaves mint producers without an approved label to carry out this application between cuttings. Growers need the option of Spartan for between cuttings to ensure improved weed control for the second-cutting harvest of mint.

The timing of the application between the first and second cutting of mint is typically late June to early July. However, due to the later nature of the 2022 season this timing has been delayed to early to mid-July. Therefore, there are growers that could benefit from an approved SLN yet this year. However, we understand that these registration processes take time, and a quick turnaround may not be in time for use this season. Looking forward it would still be a significant benefit to the growers to have this SLN in place for next year as well.

We appreciate your support and consideration on this matter. Broadleaf weed control is a significant concern in mint production and the ability to utilize Spartan's "Renovation" use pattern is a valuable tool in the fields. Please contact me if you have any questions.

Best Regards,

Steven E. Salisbury  
Research & Regulatory



United States Environmental Protection Agency  
Office of Pesticide Programs  
Registration Division (TS-767)  
Washington, DC 20460

**Application for/Notification of State Registration of a Pesticide To  
Meet a Special Local Need**  
(Pursuant to Section 24(C) of the Federal Insecticide, Fungicide, and  
Rodenticide Act, as Amended)

**For State Use Only**

Registration No. Assigned  
**SD-240002**

Date Registration Issued  
**4-2-2024**

<b>1. Name and Address of Applicant for Registration</b>  FMC Corporation 2929 Walnut St Philadelphia, PA 19104		<b>2. Product is (Check one)</b> EPA Registered <input checked="" type="checkbox"/> EPA Registration Number 279-3220 New (not EPA-registered) <input type="checkbox"/> Attach EPA Form 8570-4, Confidential Statement of Formula, fix now products. EPA Company Number <b>3. Active Ingredient(s) in Product</b> Sulfentrazone	
<b>4. Product Name</b> SPARTAN 4F HERBICIDE		<b>5. If this is a food/feed use, a tolerance or other residue clearance is required. Cite appropriate regulations in 40 CFR Part 180, 185, and/or 186.</b> 180.498	
<b>6. Type of Registration (Give details in Item 13 or on a separate page, property identified and attached to this form).</b> a. To permit use of a new product. <input type="checkbox"/> <input checked="" type="checkbox"/> b. To amend EPA registrations for one or more of the following purposes: (1) To permit use on additional crops or animals. (2) To permit use at additional sites. (3) To permit use against additional pests. (4) To permit use of additional application techniques or equipment. (5) To permit use at different application rates. <input checked="" type="checkbox"/> (6) Other (specify below).		<b>7. Nature of Special Local Need (check one)</b> <input type="checkbox"/> There is no pesticide product registered by EPA for such use. <input type="checkbox"/> There is no EPA-registered pesticide product which, under the conditions of use within the State, would be as safe and/or as efficacious for use within the terms and condition of EPA registration <input checked="" type="checkbox"/> An appropriate EPA-registered pesticide product is not available.	
<b>10. Has FIFRA section 24(c) registration for this use of the product ever, by another State, been (check appropriate box(es), if known):</b> <input checked="" type="checkbox"/> Sought <input checked="" type="checkbox"/> Issued <input type="checkbox"/> Denied <input type="checkbox"/> Revoked If any of the above are checked, list States in item 13 below <input type="checkbox"/> No FIFRA section 24(c) Action		<b>8. If this registration is an amendment to an EPA-registered product, is it for a "new use" as defined in 40 CCFR 152.3?</b> <input type="checkbox"/> Yes (discuss in item 12 below) <input checked="" type="checkbox"/> No <b>9. Has an EPA Registration or Experimental Use Permit for this chemical ever been (check applicable box(es), if known):</b> <input checked="" type="checkbox"/> Sought <input checked="" type="checkbox"/> Issued <input type="checkbox"/> Denied <input type="checkbox"/> Canceled <input type="checkbox"/> Suspended <input checked="" type="checkbox"/> Registration <input type="checkbox"/> Experimental Use Permit <input type="checkbox"/> No Previous Permit Action	
<b>Certification</b> 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.		<b>11. Endangered Species Act: (Give details in Item 13 or on a separate page, properly identified and attached to this form)</b> Identify the counties where this pesticide will be used. If Statewide, Indicate "all". Provide a list of Federally protected endangered/threatened species which occur in the areas of proposed use.	
<b>Signature of Applicant or Authorized Representative</b> 		<b>12. Indicate use statue of Special Local Need, i.e., planned dates of use:</b> From: _____ To: _____	
<b>Title</b> Senior Product Registration Manager		<b>13. Comments (attach additional sheet, if needed)</b> For Control of Broad-leaf Weeds in Mint in the state of South Dakota SLN approved in : ID, OR SLN submitted in: WA, IN, WI, SD, MI	
<b>Telephone Number</b> 302.318.9997		<b>Date</b> 03/26/2024	
<b>Determination by State Agency</b> This registration is for a Special Local Need and is being issued in accordance with section 24(c) of FIFRA as amended. To the best of our knowledge, the information above is correct, except as noted in "Comments" below or in attachments.			
<b>Name, Title, and Address of State Agency Official</b> Tom Gere 523 E. Capitol Ave Pierre SD 57501		<b>Comments (by State Agency Only)</b>	
<b>Title</b> Environmental Scientist Mgr		<b>Received by EPA</b>	
<b>Telephone Number</b> 605. 773. 6668		<b>Date</b> 4-2-24	



SULFENTRAZONE	GROUP	14	HERBICIDE
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## FIFRA 24(c) Special Local Need Label

EPA SLN No.: SD-240002  
EPA Reg. No. 279-3220

FOR DISTRIBUTION AND USE  
ONLY IN SOUTH DAKOTA

### SPARTAN 4F Herbicide for Use on Mint as a Renovation Application (For post harvest use after cuttings) to Control Broadleaf Weeds

This label for SPARTAN 4F herbicide is valid until December 31, 2027 or until withdrawn, canceled or suspended.

#### Active Ingredient:

Sulfentrazone: .....39.6%

Other Ingredients: .....60.4%

Contains 4 lbs of Active Ingredient per gallon.

## CAUTION KEEP OUT OF REACH OF CHILDREN

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.)

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING. ALL APPLICABLE DIRECTIONS, RESTRICTIONS AND PRECAUTIONS ON THE EPA REGISTERED LABEL MUST BE FOLLOWED.

THE SPARTAN 4F SECTION 3 LABEL AND THESE USE DIRECTIONS MUST BE IN THE POSSESSION OF THE USER AT THE TIME OF PESTICIDE APPLICATION.

#### Environmental Hazards

This pesticide 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: This chemical 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.**

24(c) Registrant:



FMC Corporation  
2929 Walnut St.  
Philadelphia, PA 19104  
215-299-6000

Surface water advisory: 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.

This labeling must be in the possession of the user at the time of pesticide application. Follow all applicable directions, restrictions, Worker Protection Standard requirements, and precautions on this SLN label and the EPA registered label.

SPARTAN 4F Herbicide Use Rate Table (Mint) Preemergence Applications			
Broadcast Rate	fl oz/A SPARTAN 4F HERBICIDE		
	Soil Texture		
% Organic Matter	Coarse	Medium	Fine
<1.5%	4.5 – 6.0	6.0 – 8.0	8.0
1.5 - 3.0 %	6.0 – 8.0	8.0 – 10.1	10.1
3.0+ %	8.0 – 10.1	10.1 – 12.0	12
Refer to the SOIL CLASSIFICATION CHART section on the EPA registered label for information on soil texture and the influence of soil type, organic matter, and pH on use rates and crop response. Use higher rates for soils of pH less than 7.0 and lower rates for pH greater than 7.0 within the rate range.			

### Renovation (For post harvest use between cuttings)

For the first application, apply the appropriate rate for the soil type and organic matter as specified by above, not to exceed 8 fl oz/A of SPARTAN 4F Herbicide (0.25 lb ai/A) as a broadcast application to the soil at dormancy to control various broadleaf weeds and grasses. At a minimum of 100 days after the first application, mow/cut the mint and remove mint from the field within 1-3 days after cutting. After removing the mint, a second broadcast application may be made at 4 fl oz/A of SPARTAN 4F Herbicide (0.125 lb ai/A). Do not make more than two applications per year. Application intervals should be no shorter than 100 days with the last application at least 55 days before harvest.

### When applied according to directions, SPARTAN 4F will provide control of:

Amaranth, powell	Nutsedge, yellow
Bedstraw, catchweed	Pigweed, redroot
Chamomile, mayweed	Shepherdspurse
Kochia (ALS and Triazine Resistant)	Toadflax, yellow
Lambsquarter, common	Thistle, Russian
Morningglory, ivyleaf	Waterhemp, common
Nightshade, Eastern black	Waterhemp, tall

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### Precautions

Apply SPARTAN 4F Herbicide only before new mint growth emerges. Applications made to mint that has emerged will result in severe injury to exposed plant tissue.

Apply only to healthy mint fields. Applications to mint under stress from disease, pests and cultural or environmental conditions may result in crop injury.

Moisture in the form of rainfall or overhead irrigation is required after application to activate the herbicide. After spraying SPARTAN 4F Herbicide and before using sprayer equipment for any other application, the sprayer must be thoroughly cleaned using the procedure on the EPA label. Failure to remove even small amounts of SPARTAN 4F Herbicide from application equipment may result in injury to subsequent sprayed crops.

These Crop Specific Use directions are based upon the interactive effects of SPARTAN 4F Herbicide (sulfentrazone) and the primary soil and environmental factors, which affect its activity on various weed species and tolerance among crops. The user is required to observe the instructions and guidance previously presented under Application Instructions, SPARTAN 4F Herbicide Product Use Rates, Rotational Crop Guidelines, Replanting Instructions, Weeds Controlled and any other section of the label pertinent to the anticipated crop use. It is important to note that not all varieties or cultivars of a given crop species have been evaluated under treatment with SPARTAN 4F Herbicide. Consult university or extension weed management specialists for additional information on specific local varieties or cultivars and any other pertinent information on SPARTAN 4F Herbicide under specific local conditions.

### Restrictions

- Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.
- Do not use on soils classified as sand, which have less than 1% organic matter.
- Do not apply by air.
- Do not make renovation applications via chemigation.
- Do not apply more than 12 fl oz/A (0.375 lb ai/A) per twelve-month period. The total allowed usage per 12-month period includes all applications made to the field per 12-month interval. This includes dormant, new planting, and renovation applications. The 12-month period is considered to begin upon the initial SPARTAN 4F Herbicide application.
- 
- PHI is 55 days for renovation applications.
- 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 diked mixing and loading areas. Refer to information on the EPA label pertaining to impervious pads and diked mixing and loading areas. Product must be used in a manner that will prevent back siphoning in wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates.

**South Dakota Endangered Species Advisory:** SPARTAN 4F Herbicide should not be used under this SLN label where impact on threatened or endangered species is likely. Consult the federal label for additional restrictions and precautions to protect non-target organisms.

**South Dakota Container Disposal Guidance:** Pesticide containers must be properly cleaned prior to disposal. The best time to clean empty pesticide containers is during mixing and loading, because residue can be difficult to remove after it dries. Triple rinse (or pressure rinse) the pesticide container, empty all pesticide rinse water into the spray tank, and apply to a labeled crop or site. Recycling a cleaned container is the best method of container disposal. Information regarding the recycling of empty and cleaned plastic pesticide containers in South Dakota is available on the South Dakota Waste Pesticide Program web site. Cleaned containers may also be disposed of in a sanitary landfill, if permitted by the county. Burning is not a legal method of container disposal in South Dakota.

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