

**SECTION 18**  
**EMERGENCY EXEMPTION USE DIRECTIONS**  
**FOR SALE AND USE ONLY IN THE STATE OF NORTH DAKOTA**



**All Applicable Directions, Restrictions and Precautions on the Registered Product Label for Spartan 4F (EPA Registration Number 279-3220) are to be followed.**

These directions for use must be in the possession of the user at the time of application.

**Effective Dates: April 15, 2009 thru June 30, 2009**

**EPA File Symbol: 09-ND-03**

## 4F HERBICIDE

CROP	PEST	USE RATE
Flax	Kochia	See rate table

**DIRECTIONS FOR USE:**

**Applications:** One application of Spartan 4F may be made up to 30 days prior to, or up to 3 days after planting. When mixing Spartan 4F with AMS and Roundup for burndown of emerged weeds, add Spartan 4F to the tank first and thoroughly mix using agitation before adding AMS and Roundup. Use full, labeled rates of Roundup when mixing with Spartan 4F.

**Site to be Treated:** Spartan 4F can be applied to flax fields for the control of kochia. Apply Spartan 4F as a preemergence treatment at planting. Avoid incorporation of Spartan 4F. Select the appropriate rate for soil type as indicated in the rate chart listed below. When mixing Spartan 4F with Roundup or other similar glyphosate products for burndown, thoroughly mix Spartan 4F in the tank first using agitation before adding AMS and Roundup, and use full, recommended labeled rates of Roundup or glyphosate products in combination with Spartan 4F.

**Method of Application:** Ground application in a minimum of ten (10) gallons of water per broadcast acre with sprayers equipped with suitable nozzles and screens no finer than 50 mesh.

Broadcast Rate	Ounces Spartan 4F per acre		
	Soil Texture		
% Organic Matter	Coarse	Medium	Fine
<1.0	3.0 – 3.75 *	3.0 – 4.5 *	3.75 – 5.25*
1.0-3.0	3.0 – 4.5 *	3.75 – 6.0 *	4.5 – 6.75*
>3.0	3.75 - 6.0*	4.5 – 6.75 *	6.0 – 8.0*
Refer to the information on soil types under the COARSE, MEDIUM, and FINE categories in the table below.			

\*Use higher rates for soils of pH less than 7.0.

### Soil Classification Chart

COARSE	MEDIUM	FINE
Sands	Sandy clay loams	Silty clay loams
Loamy sands	Sandy clays	Silty clays
Sandy loams	Loams	Clay loams
	Silt loams	Clays
	Silts	

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

Some adverse crop response may occur on coarse textured soils with low organic matter (less than 1.5 percent) and pH of 7.8 or higher, or on highly eroded (as defined by National Resources Conservation Service) areas, particularly exposed calcareous outcroppings, within fields of medium- or fine-textured soils. Risk of adverse crop response may be lessened by reducing Spartan 4F use rate on those areas.

Inadequate furrow closure will result in exposure to the herbicide, and may result in an undesirable crop response. Poor growing conditions such as excessive moisture, cool temperatures, and soil compaction or the presence of various pathogens may impact seedling vigor. Under these conditions the active ingredient in Spartan 4F, like other soil applied herbicides, can injure flax. However, these early injury symptoms most often are short lived and do not result in yield reduction.

**RESTRICTIONS:**

If this product is to be used in western Richland or eastern Ransom Counties of North Dakota, appropriate steps should be taken to minimize drift on and exposure to the threatened Western prairie fringed orchid (*Platanthera praeclara*). Information on measures to be taken to protect the Western prairie fringed orchid can be obtained by contacting the North Dakota Department of Agriculture at (701) 328-2231 or 1-(800) 242-7535.

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.

Do not incorporate.

Do not apply Spartan 4F by aerial equipment or through any type of irrigation system.

Do not use flood irrigation to incorporate Spartan 4F into the soil.

**CONDITIONS OF SALE:**

FMC Corporation intends that this section 18 label be distributed only to end users and/or growers (and/or applicators acting on behalf of growers) who agree that FMC would not be held responsible for failure to perform and crop damage from use of Spartan 4F in preemergence ground treatments on flax. If such terms and conditions are unacceptable, FMC requests the return of Spartan 4F at once unopened. FMC considers the user to have accepted such terms and conditions upon use of this product.

Any adverse effects resulting from the use of Spartan 4F under this emergency exemption must be immediately reported to the **North Dakota Department of Agriculture.**



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