

55146-118

02-28-2012

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Chemical Safety and Pollution Prevention
Office of Pesticide Programs
Registration Division (7504P)
1200 Pennsylvania Ave., N.W.
Washington, DC 20460

EPA Reg. Number:

55146-118

Date of Issuance:

FEB 28 2012

Term of Issuance:
Conditional

Name of Pesticide Product:

SPIRATO™ M185 FS

NOTICE OF PESTICIDE:

- X Registration
- Reregistration
Under FIFRA, as amended

Name and Address of Registrant (include ZIP Code):

Nufarm Americas Inc.
150 Harvester Drive
Burr Ridge, IL 60527

Mailed to:

Nathan P. Ehresman
Director, Regulatory Affairs
Nufarm Americas Inc.
4020 Aerial Center Parkway, Suite 101
Morrisville, NC 27560

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide and Rodenticide Act. Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is registered in accordance with FIFRA section 3(c)(5) provided that you:

- 1. Submit and/or cite all data required for registration of your product under FIFRA sec 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.

Signature of Approving Official:

Mary L. Waller

Date:

2/28/2012

Mary L. Waller, Product Manager (21)
Fungicide Branch/Registration Division/OPP/OCSP (7504P)

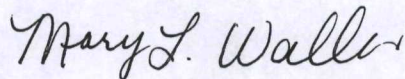
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2. You must submit the following conditional data before the due date of 9/1/2013:
 - a. Storage Stability (830.6317) and Corrosion Characteristics (830.6320) studies.
3. Make the following changes to the label:
 - a. Change the product registration number to "EPA Reg. No. 55146-118"
 - b. Add the following sentence to the **NOTE** at the top of page 4: "The label on bags of treated **RICE** must also contain the sentence 'Forage must not be grazed until 30 days after planting.'"
 - c. On page 4, add a **RESTRICTIONS** section stating "**DO NOT** use treated seed for feed, food or oil." to the use specifications for Soybeans and Seed and Pod Vegetables
4. Submit one copy of the revised final printed label for the record before the product is released for shipment.

Your release for shipment of the product constitutes acceptance of these conditions.

A copy of the label stamped "Accepted with Comments" is enclosed for your records.



Mary L. Waller
Product Manager (21)
Fungicide Branch
Registration Division (7504P)

Enclosure:

Label stamped "Accepted with Comments"
Product Chemistry Review DP394313, DP393795 dated 1/13/2012
Acute Toxicity Review DP393796 dated 1/20/2012

3
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SPIRATO™ M 185 FS

For use as a seed treatment for protection of seed and seedlings
against listed diseases

ACTIVE INGREDIENT:

Metalaxyl	15.00%
Fludioxonil	2.36%

OTHER INGREDIENTS:	<u>82.64%</u>
TOTAL:	100.00%

Contains 1.34 lbs metalaxyl and 0.21 lbs fludioxonil per gallon.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

SEE INSIDE BOOKLET FOR FIRST AID AND ADDITIONAL PRECAUTIONARY STATEMENTS

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

EPA REG. NO. 55146 - _____
EPA EST. NO. _____

MANUFACTURED FOR
NUFARM AMERICAS INC.
AGT DIVISION
150 HARVESTER DRIVE
BURR RIDGE, IL 60527



**ACCEPTED
with COMMENTS
In EPA Letter Dated:**

2/28/2012

**Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticides
registered under EPA Reg. No. *55146-118***

NET CONTENTS _____ GAL. (_____ Liters)
[Designation as "NONREFILLABLE" or "REFILLABLE" for containers > 5 GAL]

FIRST AID

IF SWALLOWED

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- **DO NOT** induce vomiting unless told to by a poison control center or doctor.
- **DO NOT** give anything by mouth to an unconscious person.

HOT LINE NUMBER

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

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

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

Engineering Controls Statement

When handlers use closed systems in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users Should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

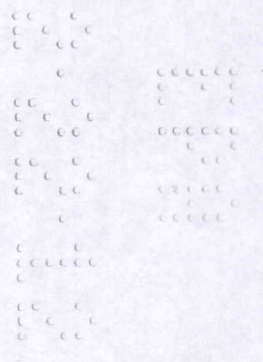
This product is toxic to fish and aquatic invertebrates. For terrestrial use, **DO NOT** apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. **DO NOT** contaminate water when disposing of equipment wash water or rinsate. Cover or incorporate spilled treated seeds.

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

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 in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.



AGRICULTURAL USE REQUIREMENTS

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

DO NOT enter or allow worker entry into treated areas during the **restricted-entry interval** (REI) of 24 hours.

Exception: If the seed is treated with the product and the treated seed is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated. 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
- Shoes plus socks

PRODUCT INFORMATION

SPIRATO M 185 FS is a seed treatment fungicide for use on soybeans, legumes, rice, and cotton to protect against damping-off and seed rots due to *Pythium*, *Phytophthora*, *Fusarium*, *Rhizoctonia* spp., and *Phytophthora* root rot. SPIRATO M 185 FS also suppresses seed-borne *Sclerotinia* and *Phomopsis* spp. particularly in soybeans.

Mix thoroughly before use or use entire container at one time.

SPIRATO M 185 FS contains an EPA approved dye/colorant that imparts an unnatural color to the seed.

SPIRATO M 185 FS is formulated for on-farm or commercial seed treatment.

Planter Box Treatment: Apply at the specified rate and premix with the seed directly in the planter box at planting. Place half the amount of seed into the planter box and apply half the required amount of pesticide to the seed. Stir the seed thoroughly with a paddle until the seed is uniformly coated. Place the remaining half of the seed into the planter box and add the remaining half of the pesticide. Again stir the seed with the paddle until all seed is thoroughly coated.

Tank Mixing: All tank mixes should be pre-tested to determine physical compatibility between formulations. When tank mixing, follow the most restrictive label instructions for any tank mix partner. **DO NOT** tank mix with any product that bears a label prohibition against tank mixing.

MIXING INSTRUCTIONS FOR SOYBEANS

SPIRATO M 185 FS may be used with liquid rhizobia products that are resistant to fungicides; using standard mechanical slurry or mist-type seed treatment equipment which accurately measures and mixes a flowable seed treatment. The equipment must provide uniform coverage of SPIRATO M 185 FS on the seed. Uneven seed coverage may not give the desired level of disease control. SPIRATO M 185 FS must be diluted with either water or liquid inoculants prior to application to soybeans. Consult the manufacturer of the application equipment you plan to use for suitability for this application and for instructions on operation and calibration of the equipment.

In a clean container large enough to contain the entire mixture add the desired amount of SPIRATO M 185 FS. Add half of the required water or liquid inoculant and mix thoroughly. Add the remaining amount of water or liquid inoculant and mix again. The slurry is ready for application to the soybeans. Mix as needed and do not store diluted mixture.

Additional or continuous agitation or mixing of the slurry mixture may be necessary to prevent the SPIRATO M 185 FS from settling out of solution when using water or liquid inoculants. SPIRATO M 185 FS has been found to be compatible with some liquid inoculant products. SPIRATO M 185 FS may be mixed or applied sequentially with approved liquid inoculants. Consult the maker of the liquid inoculants and a Nufarm Americas representative for directions before applying SPIRATO M 185 FS with liquid inoculants.

Special Precaution: SPIRATO M 185 FS is specially formulated to be compatible with some liquid inoculants. If water is used to further dilute SPIRATO M 185 FS when rhizobia are present, use only nonchlorinated water. Chlorinated water will kill the live rhizobia contained in the inoculant.

MIXING INSTRUCTIONS FOR SEED AND POD VEGETABLES, RICE, AND COTTON

Apply SPIRATO M 185 FS as a water based slurry utilizing standard slurry seed treatment equipment which provides uniform seed coverage. Uneven or incomplete seed coverage may not give the desired level of disease protection. Thoroughly mix the labeled amount of SPIRATO M 185 FS into the required amount of water for the slurry treatment and dilution rate to be used.

Follow the manufacturer application instructions for the seed treatment equipment being used. Maintain constant agitation of the slurry during the treatment. Allow seed to dry before bagging.

NOTE

Federal law requires that bags of treated seeds shall be labeled with the following information:

"This seed has been treated with fludioxonil and metalaxyl fungicides. **DO NOT** use for food, feed or oil purposes. Store away from food and feedstuffs."

USE SPECIFICATIONS

SOYBEANS				
DISEASE	USE RATE (based on 3,000 seeds / lb)			
	fl.oz. / 100 lb. of seed**	fl.oz / 1,000 seed	fl.oz / 140,000 seed	mg AI / seed
Protection against damping-off and seed rots caused by <i>Pythium</i> , <i>Phytophthora</i> , <i>Fusarium</i> , <i>Rhizoctonia</i> spp, and <i>Phytophthora</i> root rot.	1.5	0.005	0.7	0.0037 (fludioxonil) 0.0237 (metalaxyl)
Suppresses seed-borne <i>Sclerotinia</i> and <i>Phomopsis</i> spp.	**Contains 15.6 g of metalaxyl and 2.5 g of fludioxonil / 100 kg of seed.			
REMARKS				
Apply SPIRATO M 185 FS at the rate specified in the rate table, plus water at 3.5 fl. oz. per 100 lbs seed to obtain adequate coverage. Alternatively, approved liquid rhizobia inoculants at rates specified by manufacturer to achieve proper total slurry volumes can be used.				
An additional 0.75 fl oz./100 lbs seed of SEBRING 318 FS* may be used if targeting fields with high <i>Phytophthora</i> pressure.				

SEED AND POD VEGETABLES: Black-Eyed Peas, Chickpeas, Garbanzos, Cowpeas, Field Beans, Field Peas, Garden Peas, Green Beans, Kidney Beans, Lima Beans, Lupines, Navy Beans, Okra, Peas, Pole Beans, Snap Beans, String Beans, Wax Beans, and Lentils	
DISEASE	USE RATE (fl.oz / cwt. seed)
Protection against damping-off and seed rots caused by <i>Pythium</i> , <i>Phytophthora</i> , <i>Fusarium</i> , <i>Rhizoctonia</i> spp, and <i>Phytophthora</i> root rot.	1.5
Suppresses seed-borne <i>Sclerotinia</i> and <i>Phomopsis</i> spp.	

RICE		
DISEASE	USE RATE (based on 21,000 seeds / lb)	
	fl.oz. / 100 lb. of seed**	mg AI / seed
Protection against early season soil and seed-borne fungi which cause decay, damping off, and seedling blights including <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Fusarium</i> .	1.5	0.00053 (fludioxonil) 0.00338 (metalaxyl)
	3.0	0.00106 (fludioxonil) 0.00677 (metalaxyl)
REMARKS		
**SPIRATO M 185 FS contains 0.74 grams fludioxonil and 4.72 grams metalaxyl per fl.oz.		
RESTRICTIONS		
Not registered for use on Rice in California		
DO NOT use treated seed for feed, food, or oil.		
Forage must not be grazed until 30 days after planting.		
Bags or containers of Spirato M treated rice must be labeled with the restriction: " DO NOT use metalaxyl or mefenoxam to control <i>Pythium</i> in water-seeded rice".		

COTTON	
DISEASE	USE RATE (fl.oz / 100 lb. of seed)
Protection against seed and soil borne fungi such as <i>Pythium</i> , <i>Rhizoctonia</i> , and <i>Fusarium</i> that cause decay, damping-off, and seedling blights.	1.5 – 3.0
REMARKS	
For protection against black rot, use SPIRATO M 185 FS in combination with SPERA 240 FS (myclobutanil) or other seed treatment fungicide containing myclobutanil that is labeled for use on cotton seed.	
RESTRICTIONS	
DO NOT use treated seed for feed, food, or oil.	

*Use Sebring 318 FS or an equivalent rate of an appropriate metalaxyl or mefenoxam formulation.

