55146-118 02-28-2012

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 2 8 201	
1200 Pennsylvan Washington,	nia Ave., N.W. DC 20460	Term of Issuance: Conditional		
NOTICE OF PESTICIDE: X Registration _ Reregistration Under FIFRA, as amended		Name of Pesticide Product: SPIRATO™ M185 FS		
Name and Address of Registrant (include ZIP Code): Nufarm Americas Inc. 150 Harvester Drive Burr Ridge, IL 60527	Nufarm Ame	gulatory Affairs ericas Inc. Center Parkway, S	Suite 101	
Note: Changes in labeling differing in substand	ce from that accepted in co	nnection with this re	gistration must	
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Notice of Pesticide Registration SPIRATO[™] M185 FS EPA Reg. No. 55146-118 Page 2 of 2

FEB 2 8 2012

- 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 J. Waller

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

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:		82.64%
	TOTAL:	

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**



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ACCEPTED with COMMENTS In EPA Letter Dated:

2/28/2012

Under the Federal Insectivide, Progicide, and Rodennicide Act, as amended, for the peetletie 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 treater 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

DISEASE		USE RA	TE (based on 3,000	seeds / lb)
Protection against damping-off and seed rots caused by <i>Pythium</i> , <i>Phytophthora</i> , <i>Fusarium</i> , <i>Rhizoctonia</i> spp, and	fl.oz. / 100 lb. of seed**	fl.oz / 1,000 seed	fl.oz / 140,000 seed	mg Al / seed
Phytophthora root rot. Suppresses seed-borne Sclerotinia and	1.5	0.005	0.7	0.0037 (fludioxonil) 0.0237 (metalaxyl)
Phomopsis spp.	**Contains	15.6 g of metala	axyl and 2.5 g of flud	ioxonil / 100 kg of seed.

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 Phytophthora 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, Phytophthora, Fusarium, Rhizoctonia</i> spp, and <i>Phytophthora</i> root rot.	1.5	
Suppresses seed-borne Sclerotinia and Phomopsis spp.		

DISEASE	USE RATE (based on 21,000 seeds / lb)			
	fl.oz. / 100 lb. of seed** mg Al / seed			
Protection against early season soil and seed-borne fungi which cause decay, damping off, and seedling blights including <i>Pythium, Rhizoctonia, Fusarium.</i>	1.5		(fludioxonil) (metalaxyl)	
	3.0		(fludioxonil) (metalaxyl)	
RE	EMARKS		0 0 0	
**SPIRATO M 185 FS contains 0.74 grams fludioxonil and	4.72 grams metalaxyl per fl.	DZ.		
	TRICTIONS		C CC	
Not registered for use on Rice in California			CC C	
DO NOT use treated seed for feed, food, or oil.			c cc	0.0
Forage must not be grazed until 30 days after planting.				ce
Bags or containers of Spirato M treated rice must be label control Pythium in water-seeded rice".	ed with the restriction: "DO N	OT use metalaxyl	or mefenox	am

DISEASE	USE RATE (fl.oz / 100 lb. of seed)
Protection against seed and soil borne fungi such as <i>Pythium, Rhizoctonia,</i> and <i>Fusarium</i> that cause decay, damping-off, and seedling blights.	1.5 – 3.0
REMARI	KS
For protection against black rot, use SPIRATO M 185 FS in com treatment fungicide containing myclobutanil that is labeled for us	
RESTRICT	IONS

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

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in a cool place, **DO NOT** store in direct sunlight. Protect from freezing temperatures. **PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL [HANDLING]:

[Note to Reviewer: The following statement will be included on all Final Printed Labels bearing multiple Container <u>Disposal (Container Handling) statements</u>] "NOTE: This product is available in multiple containers. Refer to the Net Contents section of this products labeling for the applicable "Nonrefillable" or "Refillable" designation. Follow the container disposal [handling] instructions below that apply to your container type / size."

[Nonrefillable Containers 5 Gallons or Less]

Nonrefillable container. DO NOT reuse or refill this container. Offer for recycling if available. Triple rinse container (or equivalent) promptly after emptying. **Triple rinse as follows:** 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. The procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic containers are also disposable by incineration, or, if allowed by State and local authorities, by burning. If burned stay out of smoke.

[Nonrefillable containers larger than 5 gallons]

Nonrefillable container. DO NOT reuse or refill this container. Offer for recycling if available. Triple rinse or pressure rinse container (or equivalent) promptly after emptying.

Triple rinse as follows: 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. Turn the container over onto its other 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. Pressure rinse as follows: Empty the remaining contents into application equipment or a mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank and continue to drain for 10 seconds after the flow begins to drip. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the side of the container, and rinse at about 40 psi for at least 30 seconds. Drain for 10 seconds after the flow begins to drip.

[Refillable containers larger than 5 gallons]

Refillable container. 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 from this container into application equipment or a mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for two minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

[Refillable containers for return to Nufarm]

Refillable container. Refill this container with pesticide only. **DO NOT** reuse this container for any other purpose. Close all openings and replace all caps. Contact Nufarm's Customer Service Department at 1-800-345-3339 to arrange for return of the empty refillable container.

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WARRANTY DISCLAIMER

The directions for use of this product must be followed carefully. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, (1)THE GOODS DELIVERED TO YOU ARE FURNISHED "AS IS" BY MANUFACTURER OR SELLER AND (2) MANUFACTURER AND SELLER MAKE NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND TO BUYER OR USER, EITHER EXPRESS OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE, OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULARTRADE USAGE. UNINTENDED CONSEQUENCES, INCLUDING BUT NOT LIMITED TO INEFFECTIVENESS, MAY RESULT BECAUSE OF SUCH FACTORS AS THE PRESENCE OR ABSENCE OF OTHER MATERIALS USED IN COMBINATION WITH THE GOODS, OR THE MANNER OF USE OR APPLICATION, INCLUDING WEATHER, ALL OF WHICH ARE BEYOND THE CONTROL OF MANUFACTURER OR SELLER AND ASSUMED BY BUYER OR USER. THIS WRITING CONTAINS ALL OF THE REPRESENTATIONS AND AGREEMENTS BETWEEN BUYER, MANUFACTURER AND SELLER, AND NO PERSON OR AGENT OF MANUFACTURER OR SELLER HAS ANY AUTHORITY TO MAKE ANY REPRESENTATION OR WARRANTY OR AGREEMENT RELATING IN ANY WAY TO THESE GOODS.

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If you do not agree with or do not accept any of directions for use, the warranty disclaimers, or limitations on liability, do not use the product, and return it unopened to the Seller, and the purchase price will be refunded. (RV022112)

Spirato is a registered trademark of Nufarm Americas Inc.

All other trademarks are the property of their respective owners.

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LABEL HISTORY

File Name	Revision Mark	Comment
055146-00xxx.20110808.SPIRATO_M_185_FS	RV080811	Draft Label
055146-00RRI.20120202.SPIRATO_M_185_FS	RV020212	Revised Draft
055146-00RRI.20120221.SPIRATO_M_185_FS	RV022112	Revised Draft