

264-1125

05/11/2012

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U S ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (7505C)
1200 Pennsylvania Ave N W
Washington D C 20460

EPA Reg Number
264 1125

Date of Issuance
MAY 11 2012

NOTICE OF PESTICIDE
 Registration
 Reregistration
(under FIFRA as amended)

Term of Issuance
Unconditional

Name of Pesticide Product
Emesto Quantum

Name and Address of Registrant (include ZIP Code)

Bayer CropScience LP
2 T W Alexander Drive
P O Box 12014
Research Triangle Park NC 27709

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 unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you

- 1 Submit and/or cite all data required for registration/registration review of your product when the Agency requires all registrant of similar products to submit such data
- 2 Make the following label changes before you release the product for shipment
 - a Revise the EPA Reg No so it reads EPA Reg No 264 1125
 - b In the Commercial Seed Treatment table in the Application Rates column insert Maximum number of applications per year is 3
 - c In the Commercial Seed Treatment table in the Directions column revise the first two sentences of the dye statement to read as follows All seed must be adequately dyed with a suitable colorant to prevent its accidental use as food for man or feed for animals
 - d Add the batch code information Please be reminded that the 40 CFR part 156 140(a)(4) requires a batch code lot number or other code identifying the batch of the pesticide product distributed and sold be placed on non refillable containers The code may appear either on the label or durably marked on the container itself
- 3 For future submissions make the following changes to your Confidential Statement of Formula (EPA Form 8570 4)
 - a Box 4 Revise the EPA Reg No so it reads EPA Reg No 264 1125

4 Submit 2 copies of your final printed label before release for shipment

Signature of Approving Official

Mark Corbin

Mark Corbin Acting Branch Chief
Insecticide Rodenticide Branch Registration Division (7505P)

Date

MAY 11 2012

EPA Form 8570 6

If these conditions are not complied with the registration will be subject to cancellation in accordance with FIFRA section 6(e) Your release for shipment of the product constitutes acceptance of these conditions A stamped copy of the label is enclosed for your records If you have any questions please contact Marianne Lewis at 703 308 8043 or lewis marianne@epa gov

Mark Corbin
Acting Branch Chief
Insecticide Rodenticide Branch
Registration Division (7505P)

Enclosure

ACCEPTED
 5/11/12
 Under the Federal Insecticide, Fungicide, and Rodenticide Act,
 provided for the pesticide
 reg. No. 264-1125

Emesto Quantum

For use as a fungicide and insecticide cotton seed dressing designed to protect against disease and insect pests

ACTIVE INGREDIENT

Penflufen	6.0%
Clothianidin	18.6%

OTHER INGREDIENTS

	75.4%
TOTAL	100.0%

Contains 1.72 lb Clothianidin and 0.56 lb Penflufen per gallon (206.5 g Clothianidin and 66.6 g Penflufen per liter)

EPA Reg No 264 XXXX

EPA Est

KEEP OUT OF REACH OF CHILDREN CAUTION

For MEDICAL And TRANSPORTATION Emergencies ONLY Call 24 Hours A Day 1 800 334 7577
For PRODUCT USE Information Call 1 866 99BAYER (1 866 992 2937)

FIRST AID

IF SWALLOWED	<p>Call a poison control center or doctor immediately for treatment advice</p> <p>Have person sip a glass of water if able to swallow</p> <p>Do not induce vomiting unless told to by a poison control center or doctor</p> <p>Do not give anything by mouth to an unconscious person</p>
IF ON SKIN	<p>Take off contaminated clothing</p> <p>Rinse skin immediately with plenty of water for 15-20 minutes</p> <p>Call a poison control center or doctor for treatment advice</p>
<p>In case of emergency call toll free the Bayer CropScience Emergency Response Telephone No 1 800 334 7577 Have a product container or label with you when calling a poison control center or doctor or going for treatment</p>	

PRECAUTIONARY STATEMENTS

CAUTION

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

Harmful if swallowed Harmful if absorbed through skin Avoid contact with skin eyes or clothing

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical resistant to this product are barrier laminate butyl rubber nitrile rubber neoprene rubber polyvinyl chloride or viton If you want more options follow the instructions for category C on an EPA chemical resistance category selection chart

All mixers loaders applicators and other handlers must wear

- long sleeved shirt and long pants
- socks plus shoes
- chemical resistant gloves except when bagging or sewing bags of treated seeds

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

USER SAFETY RECOMMENDATIONS

Wash hands before eating drinking chewing gum using tobacco or using the toilet
Remove clothing/PPE immediately if pesticide gets inside Then wash thoroughly and put on clean clothing
Remove PPE immediately after handling this product Wash the outside of gloves before removing As soon as possible wash thoroughly and change into clean clothing

ENVIRONMENTAL HAZARDS

This pesticide is highly toxic to bees exposed directly (contact) and is toxic to fish and aquatic invertebrates Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark Runoff may be hazardous to aquatic organisms in water adjacent to treated areas Do not contaminate water when cleaning equipment or disposing of equipment washwater or rinsate Treated seed exposed on soil surface may be hazardous to wildlife Cover or collect seed spilled during loading

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling

For use only in commercial seed treatment equipment Not for use in hopper box planter box slurry box or other on farm seed treatment applications

COMMERCIAL SEED TREATMENT

CROP	DISEASE AND PEST	APPLICATION RATE	DIRECTIONS
Cotton	Seed rot and damping off caused by <i>Rhizoctonia solani</i> Thrips (suppression)	Apply 2.31 fl oz per 100 lbs seed (10 g ai per 100 kg seed) To deliver 0.039 mg ai per seed apply 0.48 fl oz of the product per 100,000 seeds ¹	Apply using commercial slurry or mist type seed treatment equipment Uniform application of seed is necessary to ensure seed safety and best disease protection Dilute product with sufficient water to ensure complete seed coverage Use high quality properly cleaned seed All seed must be adequately dyed with a colorant The purchaser of this product is responsible for ensuring that all seed treated with this product are adequately dyed with a suitable color to prevent its accidental use as food for man or feed for animals Refer to 21CFR part 2.25 Any colorant added to treated seed must be cleared for use under 40CFR part 153.155

¹ Based on 4,800 cottonseed per pound

SEED BAG TAG

The Federal Seed Act requires that the container of seed treated with Emesto Quantum must be labeled with the following statements

This seed has been treated with Emesto Quantum which contains Clothianidin and Penflufen

Do not use treated seed for food feed or oil production Excess treated seed may be used for ethanol production only if (1) by products are not used for livestock feed and (2) no measurable residues of pesticide remain in ethanol by products that are used in agronomic practice

In addition the US Environmental Protection Agency requires the following statements on the container of seed treated with Emesto Quantum

User is responsible for ensuring that the seed bag meets all the requirements under the Federal Seed Act

Store away from feeds and foodstuffs

Wear long sleeved shirt long pants shoes socks and chemical resistant gloves when handling treated seed

Immediate Plant back Crops for which there are registered uses of both clothianidin and penflufen which includes canola cotton cereal grains except rice mustard seed potato (Crop Subgroup 1C) and soybeans may be replanted at any time Grasses non grass livestock feeds dried beans and dried peas may be planted no less than 30 days after planting treated seeds Do not plant any other crop in the treated area for at least twelve months after treated seeds are planted

After the seeds have been planted do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours Exception Once the seeds are planted in soil or other planting media the Worker Protection Standard allows worker to enter the treated area without restriction if there will be no worker contact with the treated seeds in the soil or planting media

Dispose of all excess treated seed Left over treated seed may be double sown around the headland or buried away from water sources in accordance with local requirements Do not contaminate water bodies when disposing of planting equipment washwaters

Dispose of seed packaging in accordance with local requirements

Use planting equipment that will plant treated seed into the soil to a minimum depth of 0.5 inch

This compound is toxic to birds and mammals Treated seed exposed on soil surface may be hazardous to birds and mammals

Cover or collect seeds spilled during loading

Regardless of type of application do not apply more than 0.2 lbs of the active ingredient clothianidin per acre per season on cotton

This compound may be highly toxic to bees exposed directly (contact) Ensure that planting equipment is functioning properly in accordance with manufacturing recommendations to minimize seed coat abrasion during planting to reduce dust which can drift to blooming crops or weeds

This product is toxic to fish and aquatic invertebrates Drift and runoff may be hazardous to aquatic organisms in neighboring areas Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark

For cotton Do not exceed 0.0019 lb penflufen /A (0.86 g ai/A) per crop season The maximum number of applications per year is 3 This seed has been treated with xx mg active ingredients (ai) of Emesto Quantum /seed which includes penflufen (10 g ai/100 Kg seed) and clothianidin (31.1 g ai/100 Kg seed)

INFORMATION

EMESTO QUANTUM is a fungicide and insecticide for use on cotton seed designed to protect against listed disease and insect pests

STORAGE AND DISPOSAL

Do not contaminate water food or feed by storage disposal or cleaning of equipment

PESTICIDE STORAGE

Store in original container away from feed and food Store in cool dry area Do not store in direct sunlight Do not allow prolonged storage in temperatures that exceed 105°F (40°C) or in temperatures that fall below 14°F (10°C)

PESTICIDE DISPOSAL

To avoid wastes use all material in this container by application according to label directions If wastes cannot be avoided offer remaining product to a waste facility or pesticide disposal program (often such programs are run by state or local governments or by industry)

CONTAINER DISPOSAL

Rigid, Non refillable containers equal to or less than 5 gallons)

Non refillable 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 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 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 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

Once container is rinsed offer for recycling if available or puncture and dispose of in a sanitary landfill

Rigid Non refillable containers greater than 5 gallons or 50 lbs)

Non refillable Containers

Non refillable containers Do not reuse or refill this container Refer to Bottom Discharge IBC or Top Discharge IBC Drums Kegs information as follows

Bottom Discharge IBC (e g – Schuetz Caged IBC or Snyder Square Stackable)

Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container To pressure rinse the container before final disposal empty the remaining contents from the IBC into application equipment or mix tank Raise the bottom of the IBC by 1 5 inches on the side which is opposite of the bottom discharge valve to promote more complete product removal Completely remove the top lid of the IBC Use water pressurized to at least 40 PSI to rinse all interior portions Continuously pump or drain rinsate into application equipment or rinsate collection system while pressure rinsing Continue pressure rinsing for 2 minutes or until rinsate becomes clear Replace the lid and close bottom valve

Top Discharge IBC Drums Kegs (e g – Snyder 120 Next Gen Bonar B120 Drums Kegs)

Triple rinsing the container before final disposal is the responsibility of the person disposing of the container To triple rinse the container before final disposal empty the remaining contents from this container into application equipment or mix tank Fill the container at least 10 percent full with water Agitate vigorously or recirculate water with the pump for 2 minutes Rinse all interior surfaces Pour or pump rinsate into application equipment or rinsate collection system Repeat this procedure two more times

Once container is rinsed offer for recycling if available or puncture and dispose of in a sanitary landfill

Refillable Containers

Refillable container – Refer to Bottom Discharge IBC or Top Discharge IBC Drums Kegs information as follows Refill this container with pesticide only Do not reuse this container for any other purpose Contact your Ag retailer or Bayer CropScience for container return disposal and recycling information

Bottom Discharge IBC (e g – Schuetz Caged IBC or Snyder Square Stackable)

Pressure rinsing 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 pressure rinse the container before final disposal empty the remaining contents from the IBC into application equipment or mix tank Raise the bottom of the IBC by 1 5 inches on the side which is opposite of the bottom discharge valve to promote more complete product removal Completely remove the top lid of the IBC Use water pressurized to at least 40 PSI to rinse all interior portions Continuously pump or drain rinsate into application equipment or rinsate collection system while pressure rinsing Continue pressure rinsing for 2 minutes or until rinsate becomes clear Replace the lid and close bottom valve

Top Discharge IBC Drums Kegs (e g – Snyder 120 Next Gen Bonar B120 Drums Kegs)

Triple rinsing 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 triple rinse the containers before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container at least 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Rinse all interior surfaces. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times. Once container is rinsed, offer for recycling if available or puncture and dispose of in a sanitary landfill.

End users are authorized to remove tamper evident cables as required to remove the product from the container unless the container is equipped with one way valves and refilling or returning is planned. If this is the case, end users are not authorized to remove tamper evident cables, one way valves or clean container.

IMPORTANT READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, disclaimer of Warranties and Limitations of Liability.

Treatment of highly mechanically damaged seed or seed of known low vigor and poor quality may result in reduced germination and/or reduction of seed and seedling vigor. Treat and conduct germination tests on a small portion of seed before committing the total seed lot to a selected chemical treatment. Due to seed quality conditions beyond the control of Bayer CropScience, no claims are made to guarantee germination of carry over seed.

CONDITIONS The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE MAKES NO WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

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NET CONTENTS

PRODUCED FOR



Bayer CropScience

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 1 866 99BAYER (1 866 992 2937)**

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