

524-606

9/13/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460



OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Mr. Mark E. Groth, B.A.
Regulatory Affairs Manager
Monsanto Company
800 North Lindbergh Blvd.
St. Louis, MO 63137

SEP 13 2012

SUBJECT: September 7, 2012 Label and Refuge Requirement Language
Amendment Regarding MON 89034 x MON 88017 RIB Complete®
EPA Reg. No.: 524-606

Dear Mr. Groth:

The amendment referred to above, submitted in connection with registration under Section 3(c)(7)(A) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable subject to the following comments.

1) Condition 6 a), Refuge requirements for MON 89034 x MON 88017 seed blend corn, is modified to read as follows:

a) Refuge requirements for MON 89034 x MON 88017 seed blend corn

The following information must be included on the product bag or bag tag:

This product is a seed mixture containing MON 89034 x MON 88017 and a minimum of 10% non-Bt seed that when planted creates an interspersed refuge within the field. There are no requirements for a separate structured refuge for Genuity® VT Triple PRO® RIB Complete® corn when planted in the U.S. corn growing area, including Alaska and Hawaii, because the refuge seed is contained within the bag/container.

The interspersed refuge can only be used by planting seed corn specifically generated by qualified seed producers/conditioners licensed by the registrant. The seed producer must ensure a minimum of 10% non-PIP refuge seed included with the MON 89034 x MON 88017 in each lot of seed corn. The refuge seed in the seed mixture may not be treated with seed-applied insecticides for corn rootworm (CRW) control unless the MON 89034 x MON 88017 seed in the seed mixture receives an equivalent seed treatment for CRW control.

The seed mix refuge option for Genuity® VT Triple PRO® RIB Complete® satisfies the refuge requirements in all regions other than in the cotton-growing area where corn earworm is a significant pest as defined below.

Additional refuge requirements in the cotton growing area where corn earworm is a significant pest.

In the cotton-growing area where corn earworm is a significant pest, Genuity® VT Triple PRO® RIB Complete® requires the planting of an additional 20% structured refuge) i.e. 20 acres of *non-Bt* corn for every 80 acres of Genuity® VT Triple PRO® RIB Complete® planted).

The 20% refuge must be planted with corn hybrids that do not contain *Bt* technologies for the control of corn rootworms or corn borers. The refuge and the Genuity® VT Triple PRO® RIB Complete® should be sown on the same day, or with the shortest window possible between planting dates to ensure that corn root development is similar among varieties. The structured refuge may be planted as an in-field or adjacent (e.g., across the road) refuge or; planted as a separate block that is within 1/2 mile of the Genuity® VT Triple PRO RIB Complete® field. In-field refuge options include blocks, perimeter strips (i.e., strips around the field), or in-field strips. If perimeter or in-field strips are implemented, the strips must be at least 4 consecutive rows wide.

The cotton-growing area requiring the additional 20% refuge consists of the following states: Alabama, Arkansas, Georgia, Florida, Louisiana, North Carolina, Mississippi, South Carolina, Oklahoma (only counties of Beckham, Caddo, Comanche, Custer, Greer, Harmon, Jackson, Kay, Kiowa, Tillman, and Washita), Tennessee (only the counties of Carroll, Chester, Crockett, Dyer, Fayette, Franklin, Gibson, Hardeman, Hardin, Haywood, Lake, Lauderdale, Lincoln, Madison, Obion, Rutherford, Shelby, and Tipton), Texas (except the counties of Carson, Dallam, Hansford, Hartley, Hutchinson, Lipscomb, Moore, Ochiltree, Roberts, and Sherman), Virginia (only the counties of Dinwiddie, Franklin City, Greensville, Isle of Wight, Northampton, Southampton, Suffolk City, Surrey, and Sussex) and Missouri (only the counties of Dunklin, New Madrid, Pemiscot, Scott, and Stoddard). All other states and counties are considered to be in the corn-growing area where no structured refuge is required.

The following information must be included in the IRM Grower guide:

The refuge can be protected from lepidopteran damage by use of *non-Bt* insecticides if the population of one or more target pests of Genuity® VT Triple PRO® RIB Complete in the refuge exceeds economic thresholds. In addition, the refuge can be protected from corn rootworm (CRW) damage by an appropriate seed treatment or soil insecticide. Economic thresholds will be determined using methods recommended by local or regional professionals (e.g., Extension Service agents, crop consultants).

Please note if the change to refuge requirements required by 1) is not made, the registration will be subject to cancellation in accordance with FIFRA section 6(e). A stamped copy of the label is enclosed for your records.

Sincerely,



Kimberly Nesci, Acting Chief
Microbial Pesticides Branch
Biopesticides and Pollution Prevention Division (7511P)

Enclosure

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Plant-Incorporated Protectant Label

MON 89034 × MON 88017 RIB Complete®

Insect-Protected, Herbicide-Tolerant Corn

(Alternate Brand Name: Genuity® VT Triple PRO® RIB Complete®)

(OECD Unique Identifier: MON-89034-3 × MON 88017-3)

Active Ingredients:

Bacillus thuringiensis Cry1A.105 protein and the genetic material necessary for its production (Vector PV-ZMIR245) in event MON 89034 corn (OECD Unique Identifier: MON-89034-3) ≤0.0024%*

Bacillus thuringiensis Cry2Ab2 protein and the genetic material necessary for its production (Vector PV-ZMIR245) in event MON 89034 corn (OECD Unique Identifier: MON-89034-3) ≤0.0057%*

Bacillus thuringiensis Cry3Bb1 protein and the genetic material necessary for its production (Vector PV-ZMIR39) in event MON 88017 corn (OECD Unique Identifier: MON-88017-3) ≤0.0070%*

Other Ingredients:

CP4 EPSPS protein (5-enolpyruvylshikimate-3-phosphate synthase) and the genetic material necessary for its production (Vector PV-ZMIR39) in event MON 88017 corn (OECD Unique Identifier: MON-88017-3) ≤0.0069%*

*Percentage (wt/wt) on a dry weight basis whole plant (forage)

‡ Genuity® VT Triple PRO® RIB Complete® seed with this refuge configuration contains up to 90% MON 89034 × MON 88017 mixed with at least 10% non-*Bt* corn within a single lot of seed.

KEEP OUT OF REACH OF CHILDREN

Caution

NET CONTENTS _____

EPA Registration No. 524-606
EPA Establishment No. 524-MO-002

Monsanto Company
800 North Lindbergh Blvd.
St Louis, MO 63167

ACCEPTED

SEP 13 2012

Under the Federal Insecticide, Fungicide,
and Rodenticide Act, as amended, for
the pesticide registered under
EPA Reg. No. 524-606

® Genuity, VT Triple PRO and RIB Complete are registered trademarks of Monsanto Technology LLC.

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DIRECTIONS FOR USE

It is a violation of Federal law to use this product in any manner inconsistent with its labeling. This product must be used as specified in the terms and conditions of the registration.

MON 89034 × MON 88017 RIB Complete[®] protects corn crops from leaf, stalk, and ear damage caused by lepidopteran corn pests listed on this label and root damage caused by corn rootworm larvae listed on this label. In order to minimize the risk of these pests developing resistance to MON 89034 × MON 88017 RIB Complete[®] corn, an insect resistance management plan must be implemented as defined in the registration terms and conditions.

Grower agreements will specify that growers must adhere to the refuge requirements that will be described on the bag or bag-tag for MON 89034 × MON 88017 Complete[®] corn or other applicable product use documents.

Sales of corn hybrids that contain Monsanto's *Bt* corn plant-incorporated protectants must be accompanied by information on planting, production, and insect resistance management. This information may appear on either an IRM/Grower Guide or on the corn seed bag or bag tag.

Corn seed bags or bag tags for products containing MON 89034 × MON 88017 RIB Complete[®] must include the refuge requirement.

INSECT RESISTANCE MANAGEMENT

Growers are instructed to read information on insect resistance management in the IRM Grower Guide or the bag or bag-tag.

The seed producer must ensure a minimum of 10% non-*Bt* refuge seed is included with the MON 89034 × MON 88017 in each lot of seed corn.

The IRM Grower Guide for MON 89034 × MON 88017 RIB Complete[®], and comparable information presented on the product bag or bag-tag, must contain the following information:

This product is a seed mixture containing up to 90% MON 89034 × MON 88017 and a minimum of 10% non-*Bt* seed that when planted creates an interspersed refuge within the field. The interspersed refuge can only be used by planting seed corn specifically generated by qualified seed producers/conditioners licensed by the registrant. The refuge seed in the seed mixture may not be treated with seed-applied insecticides for corn rootworm (CRW) control unless the MON 89034 × MON 88017 seed in the seed mixture receives an equivalent seed treatment for CRW control.

The seed mix refuge option for Genuity[®] VT Triple PRO[®] RIB Complete[®] satisfies the refuge requirements in all areas other than in the cotton-growing area where corn earworm is a significant pest as defined below.

Additional refuge requirements in the cotton-growing area where corn earworm is a significant pest

In the cotton-growing area where corn earworm is a significant pest, as defined below, Genuity® VT Triple PRO® RIB Complete® requires the planting of an additional 20% structured refuge (i.e. 20 acres of non-*Bt* corn for every 80 acres of Genuity® VT Triple PRO® RIB Complete® planted).

The 20% refuge must be planted with corn hybrids that do not contain *Bt* technologies for the control of corn rootworms or corn borers.

The 20% refuge and the Genuity® VT Triple PRO® RIB Complete® should be sown on the same day, or with the shortest window possible between planting dates to ensure that corn root development is similar among varieties.

The 20% refuge may be planted as an in-field or adjacent (e.g., across the road) refuge or planted as a separate block that is within ½ mile of the Genuity® VT Triple PRO® RIB Complete® field. In-field refuge options include blocks, perimeter strips (i.e., strips around the field), or in-field strips. If perimeter or in-field strips are implemented, the strips must be at least 4 consecutive rows wide. The refuge can be protected from lepidopteran damage by use of non-*Bt* insecticides if the population of one or more target pests of Genuity® VT Triple PRO® RIB Complete® in the refuge exceeds economic thresholds. In addition, the refuge can be protected from CRW damage by an appropriate seed treatment or soil insecticide. Economic thresholds will be determined using methods recommended by local or regional professionals (e.g., Extension Service agents, crop consultants).

The cotton-growing area requiring the additional 20% refuge consists of the following states: Alabama, Arkansas, Georgia, Florida, Louisiana, North Carolina, Mississippi, South Carolina, Oklahoma (only the counties of Beckham, Caddo, Comanche, Custer, Greer, Harmon, Jackson, Kay, Kiowa, Tillman, and Washita), Tennessee (only the counties of Carroll, Chester, Crockett, Dyer, Fayette, Franklin, Gibson, Hardeman, Hardin, Haywood, Lake, Lauderdale, Lincoln, Madison, Obion, Rutherford, Shelby, and Tipton), Texas (except the counties of Carson, Dallam, Hansford, Hartley, Hutchinson, Lipscomb, Moore, Ochiltree, Roberts, and Sherman), Virginia (only the counties of Dinwiddie, Franklin City, Greensville, Isle of Wight, Northampton, Southampton, Suffolk City, Surrey, and Sussex) and Missouri (only the counties of Dunklin, New Madrid, Pemiscot, Scott, and Stoddard).

Corn Insects Controlled

European corn borer (ECB)	<i>Ostrinia nubilalis</i>
Southwestern corn borer (SWCB)	<i>Diatraea grandiosella</i>
Southern cornstalk borer (SCSB)	<i>Diatraea crambidoides</i>
Corn earworm (CEW)	<i>Helicoverpa zea</i>
Fall armyworm (FAW)	<i>Spodoptera frugiperda</i>
Stalk borer	<i>Papaipema nebris</i>
Lesser corn stalk borer	<i>Elasmopalpus lignosellus</i>
Sugarcane borer (SCB)	<i>Diatraea saccharalis</i>

Western corn rootworm (WCRW)	<i>Diabrotica virgifera virgifera</i>
Northern corn rootworm (NCRW)	<i>Diabrotica barberi</i>
Mexican corn rootworm (MCRW)	<i>Diabrotica virgifera zea</i>

Genuity® VT Triple PRO® RIB Complete® is a product of Monsanto's research program, offering unique genetic characteristics for specific grower needs and may be protected by one or more of the following U.S. patents: 5378619, 5424412, 5554798, 5641876, 5717084, 5728925, 6025545, 6051753, 6063597, 6083878, 6489542, 6645497, 6713063, 6962705, 7064249, 7070982, 7250501, 7304206, 7544862, 7618942, 7700830, 7927598, 8034997, and RE39247.

EPA Accepted: / /