

67979-19

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Sydney Jarrett
Syngenta Biotechnology, Inc.
3054 E. Cornwallis Road
P.O. Box 12257
Research Triangle Park
North Carolina, 27709

OCT 28 2014

Subject: Alternate Brand Names and label corrections
EPA Reg. No: 67979-19
Notification Completed, Dated October 22, 2014

Dear Ms. Jarrett:

The Biopesticides and Pollution Prevention Division has completed and accepted your revised labeling for Notification under PRN 98-10 dated above. A review of this request has been conducted for its applicability under PRN 98-10 and it has been determined that the action(s) requested falls within the scope of PRN 98-10. The label submitted with this application has been stamped "Notification accepted" and will be placed in our records.

Questions concerning this action should be directed to Kenneth Haymes, Ph.D. at 703 347-0398 or email at haymes.kenneth@epa.gov.

Sincerely,

Kimberly Nesci, Chief
Microbial Pesticides Branch
Biopesticides and Pollution Prevention Division

ONCURRENCES

SYMBOL	▶ 7511P	7511P	7511P	7511P				
SURNAME	▶ Hand	Reynolds	Carlsbe	Wen				
DATE	▶ 10/22/14	10/22/14	10/29/14	10/28/14				

Plant-incorporated Protectant Label

Bt11×MIR162×TC1507 Refuge Seed Blend Corn

Alternate brand names: *Agrisure Viptera*® 3220 E-Z Refuge®
Agrisure Viptera® 3220 Refuge Advanced

**~~Plant-incorporated protectant:
Cry1Ab, Vip3Aa20 and Cry1F insecticidal proteins~~**

This product is effective in controlling corn leaf, stalk, and ear damage caused by corn borers and other lepidopteran pests.

Active Ingredients:

Bacillus thuringiensis Cry1Ab protein and the genetic material necessary for its production (via elements of vector pZO1502) in corn event Bt11 (SYN-BTØ11-1).....≤0.00103%*

Bacillus thuringiensis Vip3Aa20 protein and the genetic material necessary for its production (via elements of vector pNOV1300) in corn event MIR162 (SYN-IR162-4)..... ≤0.00256%*

Bacillus thuringiensis Cry1F protein and the genetic material necessary for its production (via elements of vector PHI8999) in corn event TC1507 (DAS-Ø15Ø7-1)..... ≤0.00077%*

Other Ingredients:

Phosphinothricin acetyltransferase protein and the genetic material necessary for its production (via elements of vector pZO1502) in corn event Bt11 (SYN-BTØ11-1) and (via elements of vector PHI8999) in corn event TC1507 (DAS-Ø15Ø7-1)..... ≤0.00017%*

Phosphomannose isomerase protein and the genetic material necessary for its production (via elements of vector pNOV1300) in corn event MIR162 (SYN-IR162-4)..... ≤0.00025%*

*Percent (wt/wt) of whole plant on a dry weight basis

Notification Accepted

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

Date: 10/28/2014

Reviewer: *[Signature]*

EPA Registration No. 67979-19
EPA Establishment No. 66736-NC-01

Syngenta Seeds, Inc. – Field Crops - NAFTA
P.O. Box 12257
3054 East Cornwallis Rd.
Research Triangle Park, NC 27709

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DIRECTIONS FOR USE

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

This plant-incorporated protectant (PIP) may be combined through conventional breeding with other registered PIPs that are similarly approved for use in combination to produce inbred corn lines and hybrid corn varieties with combined pesticidal traits. All seed corn containing this PIP must be accompanied by informational material (e.g. a bag tag) indicating the EPA registration number and the active ingredients, and stipulating that growers read the Syngenta Stewardship Guide (or equivalent guidance) prior to planting their seed. The refuge size requirement must be displayed on the seed bag or bag tag in both text and graphic format.

Insects Controlled or Suppressed

Bt11×MIR162×TC1507 Refuge Seed Blend Corn has been genetically transformed to produce the insecticidal proteins, Cry1Ab, Vip3Aa20, and Cry1F, for control or suppression of the following lepidopteran insects ~~and associated leaf, stalk and ear damage~~:

- European corn borer (*Ostrinia nubilalis*)
- Southwestern corn borer (*Diatraea grandiosella*)
- Southern cornstalk borer (*Diatraea crambidoides*)
- Corn earworm (*Helicoverpa zea*)
- Fall armyworm (*Spodoptera frugiperda*)
- Beet armyworm (*Spodoptera exigua*)
- True armyworm (*Pseudaletia unipuncta*)
- Black cutworm (*Agrotis ipsilon*)
- Western bean cutworm (*Striacosta albicosta*)
- Sugarcane borer (*Diatraea saccharalis*)
- Lesser cornstalk borer (*Elasmopalpus lignosellus*)
- Dingy Cutworm (*Feltia jaculifera*)
- Common stalk borer (*Papaipema nebris*)

Insect Resistance Management

Each bag of Bt11×MIR162×TC1507 Refuge Seed Blend Corn contains a blend of 95% Bt11×MIR162×TC1507 seed and 5% non-Bt refuge seed. The following information regarding commercial production of Bt11×MIR162×TC1507 Refuge Seed Blend Corn must be included in the ~~Grower~~ Syngenta Stewardship Guide (or equivalent).

IRM Requirements for Corn-Growing Areas of the U.S.

Refuge seed is blended into each bag of Bt11×MIR162×TC1507 Refuge Seed Blend Corn. There is no requirement for growers to plant a separate structured refuge for managing resistance risk in corn-growing areas of the U.S. Corn-growing areas are those counties and states not defined below as comprising the cotton-growing areas of the U.S. Read the Syngenta Stewardship Guide or refer to the Table below.

IRM Requirements for Cotton-Growing Areas of the U.S.

In cotton-growing areas growers who plant Bt11×MIR162×TC1507 Refuge Seed Blend Corn must plant a supplemental 20% structured refuge. The following table lists those states and counties identified by the Environmental Protection Agency (EPA) as cotton-growing areas.

State	Counties Identified by EPA as Cotton-Growing Areas			
Alabama	All Counties			
Arkansas	All Counties			
Florida	All Counties			
Georgia	All Counties			
Louisiana	All Counties			
Mississippi	All Counties			
Missouri	Dunklin Stoddard	New Madrid	Pemiscot	Scott
North Carolina	All Counties			
Oklahoma	Beckham Greer Kiowa	Caddo Harmon Tillman	Comanche Jackson Washita	Custer Kay
South Carolina	All Counties			
Tennessee	Carroll Fayette Hardin Lincoln Shelby	Chester Franklin Haywood Madison Tipton	Crockett Gibson Lake Obion	Dyer Hardeman Lauderdale Rutherford
Texas	All counties with the exception of the following: Carson Hutchinson Roberts			
Virginia	Dinwiddie Northampton Sussex	Franklin City Southampton	Greensville Suffolk City	Isle of Wight Surrey

The 20% supplemental refuge must be planted with hybrids that do not contain Bt technologies. The supplemental refuge can be planted as strips within the field, perimeter strips, a block within the field, a block adjacent to the field, or a separate block within ½ mile of the Bt11×MIR162×TC1507 Refuge Seed Blend Corn field. If in-field or perimeter strips are implemented, the strips must be at least four consecutive rows wide.

The supplemental refuge in cotton-growing areas can be protected from feeding damage by application of non-Bt microbial insecticides if the population of one or more lepidopteran pests

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exceeds economic thresholds. Economic thresholds will be determined using methods recommended by local or regional professionals (e.g., Extension Service agents or crop consultants). In addition, the supplemental refuge can be protected from corn rootworm feeding damage by use of an appropriate seed treatment or conventional insecticide. ~~However, insecticides labeled for adult corn rootworm control must be avoided in the supplemental refuge during the period of corn rootworm adult emergence.~~

The following text and graphic indicating the supplemental refuge size requirement will appear on Bt11×MIR162×TC1507 Refuge Seed Blend Corn bags or bag tags.

**Important grower information.
Supplemental refuge planting requirement.**



For more information, please refer to Syngenta Stewardship Guide.