



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

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

November 23, 2021

Andrea Burns  
Regulatory Manager  
Syngenta Seeds, LLC – Field Crops – NAFTA  
9 Davis Drive  
Research Triangle Park, NC 27709

Subject: Labeling Notification per Pesticide Registration Notice (PRN) 98-10– Addition of alternate brand name

Product Name: Bt11 × MIR162 × MON 89034 Corn  
EPA Registration Number: 67979-34  
OPP Case Number: 00329522  
Application Date: October 12, 2021

Dear Ms. Burns:

The U.S. Environmental Protection Agency (EPA) is in receipt of your applications for notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced products. The Biopesticides and Pollution Prevention Division (BPPD) has conducted a review of these requests for applicability under PRN 98-10 and finds that the actions requested fall within the scope of PRN 98-10.

The labeling submitted with the applications have been stamped “Notification” and will be placed in our records. You must submit one (1) copy of the final printed labeling with the modifications for each product.

Should you wish to add/retain a reference to your company’s website on your labels, then please be aware that the website becomes labeling under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA-approved registration, the website will be referred to the EPA’s Office of Enforcement and Compliance Assurance.

If you have any questions, please contact Michael Glikes of my team by phone at (202) 566-1461 or via email at [glikes.michael@epa.gov](mailto:glikes.michael@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to read 'Alan Reynolds', with a long horizontal flourish extending to the right.

Alan Reynolds, Team Leader  
Emerging Technologies Branch  
Biopesticides and Pollution  
Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

11/23/2021

**Plant-incorporated Protectant Label**

**Bt11 × MIR162 × MON 89034 Corn**  
**Agrisure Viptera® 3330 Refuge Renew™**  
**Agrisure Viptera® 3330A Refuge Renew™**  
**Viptera® Z3 Refuge Renew™**

OECD Unique Identifier: SYN-BTØ11-1×SYN-IR162-4×MON-89034-3

**Plant-incorporated protectants:**  
**Cry1Ab, Vip3Aa20, Cry1A.105 and Cry2Ab2 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 Bt11 corn (SYN-BTØ11-1)..... ≤0.017%\*

*Bacillus thuringiensis* Vip3Aa20 protein and the genetic material necessary for its production (via elements of vector pNOV1300) in MIR162 corn (SYN-IR162-4) ..... ≤0.0282%\*

*Bacillus thuringiensis* Cry1A.105 protein and the genetic material necessary for its production (via elements of vector PV-ZMIR245) in MON 89034 corn (MON-89034-3)..... ≤0.0333%\*

*Bacillus thuringiensis* Cry2Ab2 protein and the genetic material necessary for its production (via elements of vector PV-ZMIR245) in MON 89034 corn (MON-89034-3)..... ≤0.00848\*

**Other Ingredients:**

Phosphinothricin acetyltransferase marker protein and the genetic material necessary for its production (via elements of vector pZO1502) in Bt11 corn (SYN-BTØ11-1) ..... ≤0.000132%\*

Phosphomannose isomerase marker protein and the genetic material necessary for its production (via elements of vector pNOV1300) in MIR162 corn (SYN-IR162-4) ..... ≤0.00139%\*

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

**CAUTION**  
**KEEP OUT OF REACH OF CHILDREN**

EPA Registration No. 67979-34  
 EPA Establishment No. 66736-NC-01

Syngenta Seeds, LLC– Field Crops – NAFTA  
 9 Davis Drive  
 Research Triangle Park, NC 27709

## **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 × MON 89034 Corn has been genetically transformed to produce the insecticidal proteins Cry1Ab, Vip3Aa20, Cry1A.105 and Cry2Ab2 for control or suppression of the following lepidopteran insects:

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

## **Insect Resistance Management**

Each bag of Bt11 × MIR162 × MON 89034 Corn contains 100% Bt11 × MIR162 × MON 89034 Corn seed. The following information regarding commercial production of Bt11 × MIR162 × MON 89034 Corn must be included in the Syngenta Stewardship Guide (or equivalent).

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

In corn-growing areas, growers who plant Bt11 × MIR162 × MON 89034 Corn must plant a structured refuge. 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.**

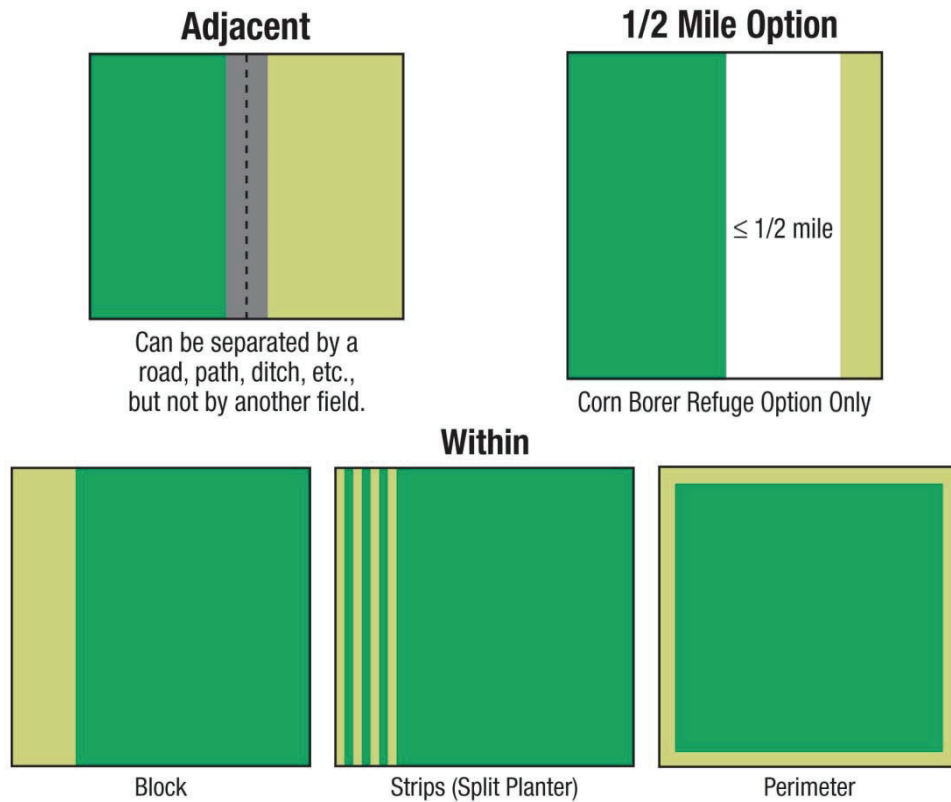
In cotton-growing areas growers who plant Bt11 × MIR162 × MON 89034 Corn must plant a 20% structured refuge. The following table lists those states and counties identified by the Environmental Protection Agency (EPA) as cotton-growing areas.

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	Caddo	Comanche	Custer
	Greer	Harmon	Jackson	Kay
	Kiowa	Tillman	Washita	
South Carolina	All Counties			
Tennessee	Carroll	Chester	Crockett	Dyer
	Fayette	Franklin	Gibson	Hardeman
	Hardin	Haywood	Lake	Lauderdale
	Lincoln	Madison	Obion	Rutherford
	Shelby	Tipton		
Texas	All counties with the exception of the following:			
	Carson	Dallam	Hansford	Hartley
	Hutchinson	Lipscomb	Moore	Ochiltree
	Roberts	Sherman		
Virginia	Dinwiddie	Franklin City	Greensville	Isle of Wight
	Northampton	Southampton	Suffolk City	Surrey
	Sussex			

The refuge must be planted with hybrids that do not contain Bt technologies. The 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 × MON 89034 Corn field. If in-field or perimeter strips are planted, the strips must be at least four consecutive rows wide.

The 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 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 refuge can be protected from corn rootworm feeding damage by use of an appropriate seed treatment or conventional insecticide.

The following are schematics of the various refuge deployment options:



The following text and graphic indicating the refuge size requirement will appear on Bt11 × MIR162 × MON 89034 Corn bags or bag tags.

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



**For more information, please refer  
to Syngenta Stewardship Guide.**