Plant-incorporated Protectant Label
Final Marketplace Product Label
Bt11 × MIR162 × MON 89034 Corn
ABN:
Agrisure Viptera® 3330 Refuge Renew™
Agrisure Viptera® 3330A Refuge Renew™

OECD Unique Identifier: SYN-BTØ11-1×SYN-IR162-4×MON-89Ø34-3

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 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-89Ø34-3) ≤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-89Ø34-3) ≤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 dry weight in whole plant

**KEEP OUT OF REACH OF CHILDREN
CAUTION
NET CONTENTS:**

EPA Registration No. 67979-34 Syngenta Seeds, LLC– Field Crops – NAFTA
EPA Establishment No. 66736-NC-01 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:

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

**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 5% 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.

<table>
<thead>
<tr>
<th>State</th>
<th>Counties Identified by EPA as Cotton-Growing Areas</th>
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</thead>
<tbody>
<tr>
<td>Alabama</td>
<td>All Counties</td>
</tr>
<tr>
<td>Arkansas</td>
<td>All Counties</td>
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<tr>
<td>Florida</td>
<td>All Counties</td>
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<tr>
<td>Georgia</td>
<td>All Counties</td>
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<tr>
<td>Louisiana</td>
<td>All Counties</td>
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<tr>
<td>Mississippi</td>
<td>All Counties</td>
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<tr>
<td>Missouri</td>
<td>Dunklin, New Madrid, Stoddard, Pemiscot, Scott</td>
</tr>
<tr>
<td>North Carolina</td>
<td>All Counties</td>
</tr>
<tr>
<td>Oklahoma</td>
<td>Beckham, Caddo, Harman, Comanche, Jackson, Kay</td>
</tr>
<tr>
<td>South Carolina</td>
<td>All Counties</td>
</tr>
<tr>
<td>Tennessee</td>
<td>Carroll, Chester, Franklin, Crockett, Dyer</td>
</tr>
<tr>
<td></td>
<td>Fayette, Haywood, Madison, Lake, Lauderdale</td>
</tr>
<tr>
<td></td>
<td>Hardin, Lincoln, Shelby, Tipton, Rutherford</td>
</tr>
<tr>
<td>Texas</td>
<td>All counties with the exception of the following:</td>
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<tr>
<td></td>
<td>Carson, Hutchinson, Roberts, Dallam, Hansford</td>
</tr>
<tr>
<td></td>
<td>Roberts, Lipscomb, Sherman, Moore, Hartley</td>
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<tr>
<td></td>
<td>Ochiltree</td>
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<tr>
<td>Virginia</td>
<td>Dinwiddie, Northampton, Franklin City, Greensville</td>
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<tr>
<td></td>
<td>Northampton, Southampton, Suffolk City, Isle of Wight</td>
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<tr>
<td></td>
<td>Sussex</td>
</tr>
</tbody>
</table>

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 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.**

5% refuge **Corn-growing areas**  

or

20% refuge **Cotton-growing areas**

For more information, please refer to Syngenta Stewardship Guide.