Plant-Incorporated Protectant Label

MON 89034 x TC1507 x MON 88017 x DAS-59122-7 Seed Blend
Insect-Protected, Herbicide-Tolerant Corn
(Alternate Brand Name: Genuity® SmartStax® RIB Complete®)
(OECD Unique Identifier: MON-89034-3 x DAS-Ø1507-1 x MON-88017-3 x DAS-59122-7)

Active Ingredients:
Bacillus thuringiensis Cry1A.105 protein and the genetic material necessary for its production (vector PV-ZMIR245) in MON 89034 x TC1507 x MON 88017 x DAS-59122-7 corn (OECD Unique Identifier: MON-89034-3 x DAS-Ø1507-1 x MON-88017-3 x DAS-59122-7) ..................................................... ≤ 0.0026%*

Bacillus thuringiensis Cry2Ab2 protein and the genetic material necessary for its production (vector PV-ZMIR245) in MON 89034 x TC1507 x MON 88017 x DAS-59122-7 corn (OECD Unique Identifier: MON-89034-3 x DAS-Ø1507-1 x MON-88017-3 x DAS-59122-7) ................. ≤ 0.0053%*

Bacillus thuringiensis Cry1F protein and the genetic material necessary for its production (vector PHP8999) in MON 89034 x TC1507 x MON 88017 x DAS-59122-7 corn (OECD Unique Identifier: MON-89034-3 x DAS-Ø1507-1 x MON-88017-3 x DAS-59122-7) ................. ≤ 0.0012%*

Bacillus thuringiensis Cry3Bb1 protein and the genetic material necessary for its production (vector PV-ZMIR39) in MON 89034 x TC1507 x MON 88017 x DAS-59122-7 corn (OECD Unique Identifier: MON-89034-3 x DAS-Ø1507-1 x MON-88017-3 x DAS-59122-7) ..................... ≤ 0.0079%*

Bacillus thuringiensis Cry34Ab1 protein and the genetic material necessary (vector PHP17662) for its production in MON 89034 x TC1507 x MON 88017 x DAS-59122-7 corn (OECD Unique Identifier: MON-89034-3 x DAS-Ø1507-1 x MON-88017-3 x DAS-59122-7) ............ ≤ 0.0194%*

Bacillus thuringiensis Cry35Ab1 protein and the genetic material necessary (vector PHP17662) for its production in MON 89034 x TC1507 x MON 88017 x DAS-59122-7 corn (OECD Unique Identifier: MON-89034-3 x DAS-Ø1507-1 x MON-88017-3 x DAS-59122-7) ..................... ≤ 0.0042%*

Other Ingredients:
CP4 EPSPS protein (5-enolpyruvylshikimate-3-phosphate synthase) and the genetic material necessary (vector PV-ZMIR39) for its production in MON 89034 x TC1507 x MON 88017 x DAS-59122-7 corn (OECD Unique Identifier: MON-89034-3 x DAS-Ø1507-1 x MON-88017-3 x DAS-59122-7) ..................... ≤ 0.0052%*

PAT protein (phosphinothricin acetyl transferase) and the genetic material necessary (vectors PHP17662 and PHP8999) for its production in MON 89034 x TC1507 x MON 88017 x DAS-59122-7 corn (OECD Unique Identifier: MON-89034-3 x DAS-Ø1507-1 x MON-88017-3 x DAS-59122-7) ..................................................... ≤ 0.00045%*

*Maximum percent (wt/wt) of dry forage

† Genuity® SmartStax® RIB Complete® seed with this refuge configuration contains 95% MON 89034 x TC1507 x MON 88017 x DAS-59122-7 mixed with at least 5% non-Bt corn within a single lot of seed.

* Genuity, SmartStax, and RIB Complete are registered trademarks of Monsanto Technology, LLC.

Monsanto Company CR248-13E1
KEEP OUT OF REACH OF CHILDREN

CAUTION

EPA Registration No. 524-595
EPA Establishment No. 524-MO-002

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

NET CONTENTS: __________

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.

This product may be combined or produced through conventional breeding with other registered plant-incorporated protectants that are similarly approved for use in combination, through conventional breeding, with other registered plant-incorporated protectants to produce inbred corn lines and hybrid corn varieties with combined pesticidal traits.

MON 89034 × TC1507 × MON 88017 × DAS-59122-7 Seed Blend 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 × TC1507 × MON 88017 × DAS-59122-7 = Seed Blend 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 in the IRM/Grower Guide for to MON 89034 × TC1507 × MON 88017 × DAS-59122-7 Seed Blend corn or other applicable product use documents.

Sales of corn hybrids that contain Monsanto's Bt corn plant-incorporated pesticide(s) must be accompanied by an IRM/Grower Guide which includes information on planting, production, and insect resistance management and notes that routine applications of insecticides to control these insects are usually unnecessary when corn containing the Bt proteins is planted.

Corn seed bags or bag tags for products containing MON 89034 × TC1507 × MON 88017 × DAS-59122-7 Seed Blend must include the refuge size requirement in text and graphical format.
INSECT RESISTANCE MANAGEMENT

Growers are instructed to read information on insect resistance management in the IRM/Grower Guide.

These refuge requirements do not apply to seed increase/propagation of inbreds and hybrid seed corn up to a total of 20,000 acres per county and up to a combined United States (U.S.) total of 250,000 acres per plant-incorporated protectant (PIP) active ingredient per registrant per year.

The following information must be included on the product bag or bag-tag as sold per respective region:

Bag or Bag-Tag for the Corn-Growing Region
There are no requirements for a separate structured refuge for MON 89034 × TC1507 × MON 88017 × DAS-59122-7 Seed Blend corn when planted in the U.S. corn-growing region. The refuge seed of MON 89034 × TC1507 × MON 88017 × DAS-59122-7 Seed Blend corn is contained in the bag resulting in a refuge configuration that is interspersed within the field. SEE THE IRM/GROWER GUIDE FOR DETAILED IRM REQUIREMENTS, including the areas making up the corn-growing region.

Bag or Bag-Tag for the Cotton-Growing Region
Growers in the cotton-growing region of the U.S. who plant MON 89034 × TC1507 × MON 88017 × DAS-59122-7 Seed Blend corn seed are required to plant an additional 20% structured refuge (i.e. 20 acres of non-5, t. corn for every 80 acres of MON 89034 × TC1507 × MON 88017 × DAS-59122-7 Seed Blend corn planted). The 20% refuge must be planted with corn hybrids that do not contain B.t. technologies for the control of corn rootworms or corn borers. The refuge and the MON 89034 × TC1507 × MON 88017 × DAS-59122-7 Seed Blend corn 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 as a separate block that is within Vi mile of the MON 89034 × TC1507 × MON 88017 × DAS-59122-7 Seed Blend corn field. SEE THE IRM/GROWER GUIDE FOR DETAILED IRM REQUIREMENTS, including the areas making up the cotton-growing region.

The cotton-growing region 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, Dallas, Hansford, Hardley, 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).
The following information regarding refuge placement for commercial production must be included in the IRM/Grower Guide:

This product includes refuge that is interspersed within the field by planting a licensed seed-mixture containing MON 89034 × TC1507 × MON 88017 × DAS-59122-7 and a minimum of 5% non-Bt seed. The seed mix refuge option for MON 89034 × TC1507 × MON 88017 × DAS-59122-7 Seed Blend satisfies the refuge requirements in all regions other than in cotton growing regions where corn earworm is a significant pest as defined below.

The seed producer must ensure a minimum of 5% non-Bt refuge seed is included with the MON 89034 × TC1507 × MON 88017 × DAS-59122-7 in each lot of seed corn. 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 × TC1507 × MON 88017 × DAS-59122-7 seed in the seed mixture receives the same treatment. Insecticidal treatments labeled for adult CRW control are discouraged during the time of adult CRW emergence.

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

In cotton-growing regions where corn earworm is a significant pest, as defined below, MON 89034 × TC1507 × MON 88017 × DAS-59122-7 Seed Blend requires the planting of an additional 20% structured refuge (i.e. 20 acres of non-Bt corn for every 80 acres of MON 89034 × TC1507 × MON 88017 × DAS-59122-7 Seed Blend 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 MON 89034 × TC1507 × MON 88017 × DAS-59122-7 Seed Blend 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 as a separate block that is within ½ mile of the MON 89034 × TC1507 × MON 88017 × DAS-59122-7 Seed Blend 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 lepidopteran pests of MON 89034 × TC1507 × MON 88017 × DAS-59122-7 Seed Blend in the refuge exceeds economic thresholds. In addition, the refuge can be protected from CRW damage by an appropriate seed treatment or soil insecticide; however, insecticides labeled for adult CRW control must be avoided in the refuge during the period of CRW adult emergence. Economic thresholds will be determined using methods recommended by local or regional professionals (e.g., Extension Service agents, crop consultants).
**Corn Insects Controlled or Suppressed**

<table>
<thead>
<tr>
<th>European corn borer (ECB)</th>
<th><em>Ostrinia nubilalis</em></th>
</tr>
</thead>
<tbody>
<tr>
<td>Southwestern corn borer (SWCB)</td>
<td><em>Diatraea grandiosella</em></td>
</tr>
<tr>
<td>Southern cornstalk borer (SCSB)</td>
<td><em>Diatraea cramboides</em></td>
</tr>
<tr>
<td>Corn earworm (CEW)</td>
<td><em>Helicoverpa zea</em></td>
</tr>
<tr>
<td>Fall armyworm (FAW)</td>
<td><em>Spodoptera frugiperda</em></td>
</tr>
<tr>
<td>Stalk borer</td>
<td><em>Papaipema nebris</em></td>
</tr>
<tr>
<td>Lesser corn stalk borer</td>
<td><em>Elasmopalpus lignosellus</em></td>
</tr>
<tr>
<td>Sugarcane borer (SCB)</td>
<td><em>Diatraea saccharalis</em></td>
</tr>
<tr>
<td>Western bean cutworm (WBC)</td>
<td><em>Richia albicosta</em></td>
</tr>
<tr>
<td>Black cutworm</td>
<td><em>Agrotis ipsilon</em></td>
</tr>
<tr>
<td>Western corn rootworm (WCRW)</td>
<td><em>Diabrotica virgifera virgifera</em></td>
</tr>
<tr>
<td>Northern corn rootworm (NCRW)</td>
<td><em>Diabrotica barberi</em></td>
</tr>
<tr>
<td>Mexican corn rootworm (MCRW)</td>
<td><em>Diabrotica virgifera zeae</em></td>
</tr>
</tbody>
</table>

MON 89034 x TC1507 x MON 88017 x DAS-59122-7 Seed Blend is a product of Monsanto's and Dow AgroSciences' research programs, offering unique genetic characteristics for specific grower needs and may be protected by one or more of the following U.S. patents: 5,717,084; 5,728,925; 6,025,545; 6,051,753; 6,063,597; 6,083,87; 6,489,542; 6,645,497; 6,713,063; 6,962,705; 7,064,249; 7,070,982; 7,250,501; 7,304,206; 7,544,862; 7,618,942; 7,700,830; 7,927,598; 8,034,997; 8,212,113; 6,083,499; 6,127,180; 6,218,188; 6,340,593; 6,548,291; 6,624,145; 6,893,872; 6,900,371; 6,943,282; 7,112,665; 7,790,961; and 7,956,246.