SPEAR® RC | An insecticide solution by Vestaron
THE POWER OF SYNTHETICS. THE SAFETY AND SUSTAINABILITY OF BIOLOGICALS.

SPEAR® RC is Vestaron’s revolutionary insecticide for cotton, soybean, rice, and other broad acre row crops. Targeting armyworms and other lepidopteran pests such as Cotton Bollworm and Soybean Looper, field trials with Spear RC show performance that is similar to conventional insecticides. With no known resistance or cross resistance, Spear RC works as a standalone or in rotation with conventional insecticides. Spear RC is an excellent IPM and resistance management tool.

### PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA REG #</td>
<td>88847-6</td>
</tr>
<tr>
<td>AI</td>
<td>GS-OMEGA/KAPPA-HXTX-HV1A</td>
</tr>
<tr>
<td>FORMULATION</td>
<td>LIQUID</td>
</tr>
<tr>
<td>IRAC GROUP</td>
<td>32</td>
</tr>
<tr>
<td>SIGNAL WORD</td>
<td>CAUTION</td>
</tr>
<tr>
<td>REI</td>
<td>4 HOURS</td>
</tr>
<tr>
<td>PHI</td>
<td>0 DAYS</td>
</tr>
<tr>
<td>PACKAGE SIZE</td>
<td>2.5 GAL, 2.5 X 2 GAL CASE</td>
</tr>
<tr>
<td>USE RATE</td>
<td>2 PT/ACRE PLUS Btk</td>
</tr>
<tr>
<td>SURFACTANT</td>
<td>For best performance, use with a NIS or spreader/sticker at 0.125% v/v</td>
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</tbody>
</table>

### KEY FACTS

- Insecticide based on a naturally occurring peptide
- Highly specific for lepidopteran larvae with very low risk to beneficials
- Control equivalent to synthetic options
- Vital new tool for sustainable pest management
- New IRAC Group 32 supporting resistance management
- Mode of Entry: Ingestion
- Mode of Action: Disruption of the nicotinic acetylcholine receptor
- Spear RC is effective when tank-mixed with a gut disrupting facilitator such as *Bacillus thuringiensis* (Btk) (we recommend Leprotec®)
- Excellent environmental and worker safety profile
- 0-Day PHI, 4-Hour REI, & MRL Exempt
- Low risk of phytotoxicity

### MAIN CROPS

(refer to label for full list)

- ALFALFA
- CORN
- COTTON
- HEMP
- PEANUTS
- RICE
- SOYBEAN
- TOBACCO
- TOMATO

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An MRL exemption indicates residue levels on food are not required to be measured or enforced when the product is used as directed by the label.

A short Restricted-Entry Interval (REI) provides flexibility and desired worker safety profiles.

**HOW IT WORKS**

Caterpillar ingests plant tissue treated with Spear RC and a low dose of Btk.

Btk crystal proteins damage the gut cells allowing Spear RC access to the nervous system.

Spear RC helps neurotransmitters to bind and open the receptor’s ion channels.

The open channel causes persistent depolarization of the nerve cell.

The affected cells are unable to reset and transmit new electrical signals.

This causes paralysis and death of the insect.

*Sperescis* is Vestaron’s OMRI Certified Btk insecticide that is the ideal partner for use with Spear RC. When ingested together, the non-lethal dose of Btk proteins perforate the insect mid-gut allowing the Spear peptide to access the target receptor in the nervous system, killing the pest.

**PESTS CONTROLLED**

(Refer to label for full list)

- COTTON BOLLWORM/CORN EARWORM/SORGHUM HEADWORM
- FALL ARMYWORM
- SOYBEAN PODWORM
- SOYBEAN LOOPER
- TOBACCO HORNWORM
- TOMATO FRUITWORM

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