



**Dr. Jesse Benelli, PhD,**  
Bayer's Green  
Solutions Team

# Get to know TETRINO

The new product from Bayer controls pests through ingestion.

**Dr. Jesse Benelli, PhD,** Bayer Green Solutions Team

If you've ever read the classic Children's Book, "The Very Hungry Caterpillar," then you are familiar with how pests can become a problem.

"You have this hatchling, this caterpillar that eats anything you put in its way in the book, and that's essentially the fall army worm," says Dr. Jesse Benelli, PhD, with Bayer's Green Solutions Team. "Then it gets really big. It's feeling sick, then it needs to pupate, but instead of pupating into a beautiful butterfly, it pupates into an adult fall army-worm moth, and then the cycle will start all over again."

Benelli says one advantage of using Tetrino against fall army worm is you can get up to a 60-day residual control of the pest.

"In most years, that's a one and done approach," he says.

Here's more on Tetrino, including how it works, what it can do when combined with Bayer's COR3 and more.

## What should lawn care operators know about Tetrino?

To start off, the active ingredient in Tetrino is tetraniliprole. I bring this up because that active ingredient falls under the group 28 insecticides, which includes a number of really

high-performing products. But what separates Tetrino is this molecule was discovered, developed and manufactured by Bayer.

To have a group 28 diamide chemistry, which is what Tetrino is – what you know from that is it's going to have extended residual control at a very affordable cost, especially compared to some of the current standards on the market. Not necessarily from a cost perspective against contact insecticides like pyrethroids, but those longer residual products, it's an excellent solution at a very affordable price.

## How does it work on white grubs?

We offer excellent control across a full spectrum of white grubs, because depending on where you are, you may be dealing with Japanese beetle, European chafers, Asiatic garden beetles. And we have data that supports very strong activity of Tetrino against those using just one application. But what's really neat about Tetrino is in the lawn care space. This is probably more important down South or along the coasts is we control white grubs. We control fall army worms, black cut worms and sod web worms – all types of caterpillars. But really for the first time we have a group 28 product

that actually has some real activity against both the hairy Chinch bug up North and the Southern Chinch bugs down South, which can be a huge problem.

## How does it work with COR3?

You can't really start talking about COR3 until you have an understanding of the problems that Chinch bugs can create. The COR3 program was built in mind for the lawn care operators that, among other things, battle the Southern Chinch bug, which in the Carolinas, you can have four or five, six or seven different generations of Southern Chinch bugs. In Southern Florida you could have 10 generations of Southern Chinch bugs a year.

And what we know about the Southern Chinch bug is that there is no silver bullet against that pest. And Tetrino is not necessarily a silver bullet against a Southern Chinch bug, but what would be the closest thing to a silver bullet is a program like the COR3. It uses three different modes of action – or three different insecticide classes – to combat not only Southern Chinch bugs throughout the year, but other things like sod and web worm and grubs that you could face.

With Chinch bugs, however, when we designed the COR3 program, we knew we wanted to include our new pyrethroid insecticide, which is Barricor. The active ingredient in that is deltamethrin. We know that has strong activity against the Southern Chinch bug. We know that Merit, a neonicotinoid, has strong activity against Southern Chinch, but we were missing that third element.

And what we needed out of that third piece of the puzzle is something that can provide some efficacy, some control in a program against Southern Chinch bugs, but also control some of the caterpillars and, and grubs that we may be facing. So really for the first time we have an affordable diamide insecticide that you can include in a Southern Chinch bug management



program. So that's kind of where the COR3 program was started. It's having not just three different products, but three different chemistry families controlling a Southern Chinch bug.

## How does it kill the pest?

There are contact insecticides, which would be a pyrethroid. Tetrino is not a contact insecticide. For it to work, the insect actually has to absorb that material and they do it through feeding. So, it works through ingestion. They'll attempt to feed on a treated plant material and as they feed, they're taking up that product and it causes immediate cessation of feeding. That's how that controls the insects. It works through ingestion.

Where it stands out from other group 28 insecticides is it works very, very quickly, whether that is caterpillars or white grubs. The other products that are group 28 chemistries, the manufacturer will recom-

mend that you put these down months ahead of before you'll even see the adult beetles.

For a Japanese beetle, instead of applying an insecticide in April for Japanese beetle, which is a problem in July, with Tetrino, you can essentially point and shoot. You can actually gauge the adult flight in season and make a decision if you think you need to spray or not. So, it works very quickly. It doesn't need to be in the soil months ahead of time. You can point and shoot. You see the insect, you can apply it and get strong activity.

**ALWAYS READ AND FOLLOW LABEL INSTRUCTIONS.** Bayer Environmental Science, a Division of Bayer CropScience LP, 5000 CentreGreen Way, Suite 400, Cary, NC 27513. For additional product information, call toll-free 1-800-331-2867. [www.environmentalscience.bayer.us](http://www.environmentalscience.bayer.us). Not all products are registered in all states. Bayer, the Bayer Cross, Tetrino, Barricor and Merit are registered trademarks of Bayer. ©2022 Bayer CropScience LP.

**"... IT'S GOING TO HAVE EXTENDED RESIDUAL CONTROL AT A VERY AFFORDABLE COST, ESPECIALLY COMPARED TO SOME OF THE CURRENT STANDARDS ON THE MARKET."**

— DR. JESSE BENELLI, PHD, WITH BAYER'S GREEN SOLUTIONS TEAM

LEARN MORE AT [ES.BAYER.US/TETRINOLAWN](http://ES.BAYER.US/TETRINOLAWN)