



WATCH THE VIDEO



In this video, scientists from Corteva Agriscience explain the value of healthy soils to our planet and our food supply.

https://www.youtube.com/watch?v=zXExh_yajRw

Controlling nematodes and maintaining a healthy balance in soils

Reklemel™ active works selectively without disrupting vital aspects of soil health

In the ag industry, we're more attuned to the value of healthy soil than most people, yet even we sometimes forget what a marvel the ground under our feet really is.

Soil takes thousands of years to form, and that essentially makes it a non-renewable resource. We, and our farmer customers, know how important it is to care for the soil, but when you think about it in these terms, the necessity of keeping soil healthy and resilient comes into even sharper focus.

Soil is home to an incredible array of organisms, and that biodiversity is key to soil health. Healthy soil is practically a buzzing metropolis underground, with earthworms, fungi, bacteria and other organisms each doing their job to keep things in balance.

Benefits of balanced soils

In balanced soils, the naturally occurring organisms can do what they do best: fighting off diseases and pests, improving soil structure and contributing to the soil nutrient cycle. Healthy, balanced soils are not only more productive, they may require fewer inputs to stay that way. So, not only does maintaining balance in the soil help us keep this precious resource around, it can actually benefit crop production and farmers' bottom lines.

Of course, there are organisms and diseases in the soil that threaten the bottom line. Nematodes are a great example.

Keeping the balance, losing the bad nematodes

Traditionally, we think of all nematodes as bad actors, but actually, most nematodes are beneficial, stimulating soil nutrient cycles and helping to control damaging plant pests and diseases.

Plant-parasitic nematodes are the ones farmers need to worry about. Plant-parasitic nematodes can destroy harvests by damaging roots and making plants more vulnerable to diseases and other stress factors. Because they are microscopic, plant-parasitic nematodes can go unnoticed, and once they're established in a field, they can be nearly impossible to eradicate.

Broad-spectrum nematicides can't distinguish between these "bad" plant-parasitic nematodes and the "good" nematodes. By killing all nematodes, these nematicides end up removing beneficial organisms that actually help make the soil healthier.

Recently, Corteva Agriscience introduced a new way for farmers to address plant-parasitic nematodes while helping to maintain a healthy balance in soils. New Reklemel™ active (fluazaindolizine) is highly selective against plant-parasitic nematodes and is biologically compatible with a range of beneficial organisms, including "good" nematodes and pollinators. A first of its kind, Reklemel has a unique mode of action that works against multiple species of plant-parasitic nematodes and provides long-lasting control, even at low use rates. Studies have shown that Reklemel reduces root damage, improves root protection and leads to better yields in several crops, including soybeans as well as vegetables.

Because it's a novel nematicide, Reklemel fits into an integrated nematode management (INM) program to help farmers reduce risks of resistance in the future.

Registration of products with Reklemel active are currently being sought in several countries, including the U.S.

Soil health and sustainability

Products like Reklmel demonstrate Corteva's ongoing commitment to sustainable solutions for farming. These solutions are not only about preserving our most valuable resources – like soil – but helping to ensure farming remains resilient and viable over the long term, so that farmers can continue producing higher-quality, more abundant harvests with fewer resources for many generations to come.

REKLEMEL ACTIVE AT A GLANCE

- Novel nematicide (fluazaindolizine)
- Selective action against multiple species of plant-parasitic nematodes
- Compatible with beneficial organisms in the soil and pollinators
- Long-lasting control even at low use rates
- Reduces root damage
- Improves root protection
- Can lead to better marketable yields
- Registration of products with Reklmel active are currently being sought in the U.S.

You can learn more about Reklmel active at <https://www.corteva.com/our-impact/innovation/activeingredients/reklmel.html>