A Breakthrough in Nematode Control and Soil Protection

In healthy soils, organisms like fungi, bacteria, earthworms and nematodes help keep soils fertile. But not all nematodes — tiny organisms found in soil — are beneficial. Plant-parasitic nematodes feed on plant roots and tissue. These pests are often overlooked due to their near microscopic size, but they can lead to severe crop damage, increased production costs and significant yield losses. Agricultural production losses from nematode damage are estimated at more than $100 billion worldwide.[1]

Reklemel™ active is a new nematicide created to help protect crops from plant-parasitic nematode damage without disrupting the soil's healthy balance of beneficial organisms, including good nematodes. It provides excellent control of root-knot nematodes and other plant-parasitic nematode species.

This latest addition to the Corteva Agriscience portfolio of crop protection active ingredients that work with nature and help sustain it is the result of more than a decade of research. Reklemel active offers a unique mode of action meaning it is highly selective to plant-parasitic nematodes while being biologically compatible with beneficial insects, including pollinators, and a wide range of beneficial soil organisms such as fungi. Reklemel has received a Reduced Risk designation from the U.S. Environmental Protection Agency due to its ability to selectively target plant-parasitic nematodes and its highly favorable environmental and toxicological profile.

Products containing Reklemel offer farmers excellent flexibility in application timing and methods while maintaining crop safety. It can be used before planting, at planting or in crop, and it's compatible with a wide range of annual and perennial crops, including row crops like corn and soybeans. It can work for many application methods to fit with a variety of crop production systems and nematode management needs. As an important part of an integrated pest management (IPM) strategy with cultural, mechanical and biological management practices, it can help increase yield potential, reduce plant-parasitic nematode damage losses and help preserve beneficial organisms critical to soil health. Farmers will most likely choose to apply products containing Reklemel shortly before or at planting for annual crops and during seasonal root flush periods in perennial crops.

Healthy soil is the foundation for successful farming and sustained food production. A balanced coexistence of beneficial organisms helps plants improve water and nutrient use, enhancing crop tolerance to pests, diseases and environmental stresses. Reklemel active can help farmers control damage with targeted protection against plant-parasitic nematodes while maintaining beneficial organisms in the soil, enabling root establishment and contributing to healthy crops and plentiful harvests.

Learn more about Reklemel active.

[1] Toward genetic modification of plant-parasitic nematodes: delivery of macromolecules to adults and expression of exogenous mRNA in second stage juveniles. National Library of Medicine. Accessed January 19, 2024. https://pubmed.ncbi.nlm.nih.gov/33585878/.