Reklemel™ active
A new nematicide from Corteva Agriscience

Amy Agi, Corteva Agriscience, September 2021
Reklemel™ Nematicide

- New nematicide: Fluazaindolizine
- Formulated Product: 500 gai/L SC
- Novel active ingredient for control of plant parasitic nematodes in North America. The biochemical mechanism on plant-parasitic nematodes is presently unknown. HOWEVER, the symptomology expressed by plant-parasitic nematodes is well understood.
- Effective against a wide range of important plant parasitic nematodes; no fungicidal or insecticidal activity.
- Favorable tox, ecotox, and environmental profile; novel MOA
- Tier 1 crops: Fruiting Vegetables, Cucurbits, Carrots, Potatoes, Sweet Potatoes, also Non-bearing: Tree Nuts, Grapes, Citrus and Stone Fruit
- Tier 2 crops: Strawberries, Turf, Bearing Tree Nuts, Grapes, Citrus and Stone Fruit
- First label approval just received in Australia. Further registrations expected to happen by end of 2021.
Reklemel™ 500SC Global Field Testing

There is still a great need for novel, environmentally soft, and effective nematicides.

CROPS

- Fruiting and cucurbit vegetables, root and tuber vegetables, strawberry; soybean, sugarcane, coffee, corn, cotton; citrus, tree nuts, stone fruit, grapes, turf, and ornamentals.

TARGET GEOGRAPHIES

- USA, Mexico, Canada, Brazil, Argentina, Chile, Spain, Italy, Greece, Turkey, China, India, Vietnam, Australia, South Africa, parts of the Middle East and Africa.

APPLICATION METHODS

- Compatible with a variety of grower application methods; such as drip chemigation, bed sprays, micro-jets, pre-plant hole drench, in furrow applications, and soil incorporation.

APPLICATION RATES

- Application rates vary by crop and application method and range typically from 0.22 to 2 lbai/A.
The same symptom(s) as for *Meloidogyne incognita* also other species of root-knot nematodes (e.g., *M. hapla*, *M. chitwoodi*, *M. javanica*, *M. arenaria*, *M. enterolobii*, etc.).

Similarly, some species of root-lesion (*Pratylenchus brachyurus*, *Pratylenchus coffeae*), as well as reniform nematodes (*Rotylenchulus reniformis*) react strongly to Reklemel.

Dagger & needle nematodes (*Xiphinema* sp.; *Longidorus* sp.) adversely impacted by Reklemel.

On the contrary, some species did either not show any sensitivity/symptoms or did, but to a lower extent [e.g., stem nematodes (*Ditylenchus dipsaci*), some cyst nematodes (*Heterodera* sp.), some root-lesion nematodes (*Pratylenchus penetrans*)].

Different species sensitivity may be due to different culticular structures or rates of metabolism.

Symptoms of Salibro™ nematicide intoxication in *Meloidogyne hapla* (left) and *Pratylenchus brachyurus* (right).
Reklemel™: Research

• Turf – Submission with Tier 2.

• Ornamentals – Cut flowers
  o Tested in Europe and Africa. Preliminary efficacy and crop safety results very promising.
  o Looking internally to understand US market. No decision yet.
Thank You!