Initial Evaluations of Solatenol™ Fungicide – A New SDHI Fungicide for Peanut.

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Solatenol™ fungicide is a new broad spectrum foliar fungicide discovered and developed by Syngenta. It is the third Syngenta succinate dehydrogenase inhibitor (SDHI) carboxamide to be introduced. Syngenta currently has two registered products in the SDHI class – sedaxane (Vibrance™) used in Seed Care, and isopyrazam (Seguris™) used on wheat and bananas in several countries. In the US, Solatenol™ fungicide (ISO name benzovindiflupyr) has been submitted for registration to the US EPA. Solatenol™ is not systemic but is translaminar. Solatenol™ is classified as a pyrazole carboxamide (FRAC 7). The very high affinity for succinate dehydrogenase results in its high intrinsic activity. Solatenol’s™ high intrinsic activity combined with strong binding to the plant’s wax layer from where it slowly penetrates into the plant tissue, results in long lasting disease control. Solatenol™ is safe to the crop when applied alone or when mixed with DMI or QoI fungicides. Key strengths of Solatenol™ fungicide include activity on Asian soybean rust (Phakopsora pachyrhizi), Septoria tritici on wheat, and apple scab (Venturia inaequalis). Use rates as low as 30 g ai/ha are extremely efficacious on soybean rust. It also has excellent activity on many leafspots, rusts, powdery mildews, Rhizoctonia spp., and Sclerotium rolfsii. It does not control oomycete diseases. In peanut, Solatenol™ Fungicide has shown excellent residual activity of early leafspot (Cercospora arachidicola), late leafspot (Cercosporidium personatum), peanut rust (Puccinia arachidis), and Southern Blight (Sclerotium rolfsii) at use rates of 75 to 100 g ai/ha. Peanut fungicide programs including Solatenol™ Fungicide have shown excellent seasonal control of peanut diseases and resulted in improved yield compared to the best disease control programs currently available. [*Solatenol™ is a registered trademark for the active ingredient and not the tradename]