AN INTRODUCTION TO SULFOXAFLOR: A NOVEL INSECTICIDE FROM DOW AGROSCIENCES FOR CONTROL OF SAP-FEEDING INSECTS

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Abstract

Sulfoxaflor is a new insecticide discovered by and proprietary to Dow AgroSciences. It is the first member of a new chemical class of insecticides, the sulfoximines, and is targeted for global development in all major crop groups. Sulfoxaflor is characterized by broad-spectrum activity on sap-feeding insects such as plant bugs (*Lygus* spp.), aphids, whiteflies, planthoppers, and scales. It is fast-acting and exhibits extended residual control. Sulfoxaflor has demonstrated efficacy against populations resistant to a variety of other chemical classes such as neo-nicotinoids, pyrethroids, organophosphates, and carbamates. It has relatively low toxicity to non-target arthropods and both its spectrum and properties suggest it will have an excellent fit in Integrated Pest Management programs. Data packages are expected to be submitted to regulatory authorities beginning in mid-2010 with an anticipated decision on US registration in late 2011-early 2012.