



# Tools to Keep Resistance in Check:

## New Insecticides and Miticides for 2015

January 2015

Some great new insecticides and miticides have come to market to diversify your pesticide rotations for 2015; a brief overview of these new products follows. Of course, growers need to always read and follow all label directions. Not all products are registered for use in all states or for all crops; your Griffin Customer Service Representative can help determine whether these products are labeled in your state.

Mainspring™ is a new insecticide with the active ingredient, cyantraniliprole, which quickly stops chewing and sucking insects from feeding. Mainspring introduces a new mode of action (MOA 28), providing an alternative product for resistance management in IPM programs. Mainspring is labeled for ornamental plants, shrubs and trees (non-bearing

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fruit and/or nut) in greenhouses and interior landscapes. It may be used as a spray or drench (to containerized plants only) to control a variety of pests including aphids, caterpillars, lacebugs, leafminers, thrips, whiteflies (*Bemisia*) and others. Mainspring is a translaminar systemic (spray) and systemic (drench) product which allows quick movement through the plant. Mainspring has a four-hour REI. Syngenta indicates that this product is compatible with many beneficial insects and mites, especially when applied as a drench. It's available in a 1-pint container. Griffin item #70-2330.

Rycar® SC is a new insecticide from SePRO with the active ingredient, pyrifluquinazon, a new class of chemistry which quickly stops insect pests from feeding. Rycar is for use on indoor greenhouse ornamentals only. It has a caution signal word with a 12-hour REI. The unique mode of action can help to avoid pesticide resistance when used as a part of an IPM program. The Rycar label calls for a maximum of two applications per crop, applied at least 10 days apart. Rycar has an unknown mode of action which immediately stops feeding insects. It may be used a foliar spray for control of aphids, chilli thrips, leafhoppers and whiteflies. Rycar has contact and translaminar activity. SePRO claims that it has good BCA and pollinator safety. MOA UN. Rycar is available from Griffin in an 8-oz. container. Griffin item #70-2900.

Sultan™ is a miticide for use on ornamentals in greenhouses, landscapes, interiorscapes and nurseries. The active ingredient, cyflumetofen, represents a brand new MOA for our industry. Sultan is a contact miticide that controls all life stages of mites for up to 28 days. Extensive trialing has determined that it has excellent plant and bloom safety. The use of CapSil at recommended rates in conjunction with Sultan

will improve performance. Mites controlled include: two-spotted spider mites, spruce spider mites and European red mites. BASF indicates that Sultan is safe for bees and many BCAs. The label warns that it **cannot** be safely tank mixed with many other types of pesticides so until GGSPRO gains experience with specific mixtures, we advise against tank mixing at this time. 12-hour REI. Available as a 16-oz. bottle. Griffin item #70-3045.



*Sultan is a contact miticide that controls all stages of mites, including the adult spider mite shown here, for up to 28 days.*

XXpire™ WG is a new insecticide with two active ingredients, sulfoxaflor (MOA 4C), and spinetoran (MOA 5). XXpire is labeled for 39 pests, including chewing and sap-feeding insects such as aphids, caterpillars, mealybugs, scale, thrips and whiteflies. (Effectiveness against the Q-biotype whitefly is still being evaluated.) XXpire may be used as a foliar spray in greenhouses, non-residential landscapes and nurseries. It

**XXpire is labeled for 39 pests, offering two active ingredients: sulfoxaflor (MOA 4C), and spinetoran (MOA 5).**

provides a quick knockdown of labeled pests and a residual control of two weeks for most pests, and four weeks for aphids. Translaminar action redistributes XXpire within treated leaves. This product does present a bee hazard, but only for about three hours after application. It can be used safely on outdoor blooming plants if applicators avoid using XXpire when pollinators are active on a crop. XXpire has excellent plant and bloom safety. It leaves no visible residue, and has little to no odor. Available in a 1-lb. container. Griffin Item #70-9700.

### Featured Products

Product	Size	Item No.
Mainspring™	1 pt.	70-2330
Rycar™ SC	8 oz.	70-2900
Sultan™	16 oz.	70-3045
XXpire™ WG	1 lb.	70-9700