

## Short-Term Contact Toxicity of Seven Fungicides on *Anystis baccarum*

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*Anystis baccarum* (L.) (Acari: Anystidae) is a predacious mite prevalent in organic apple orchards and IPM vineyards in Quebec, Canada. Each season, 11 to 15 fungicide sprays may be applied to control apple scab in orchards. Laboratory tests of fungicides showed that dry residues of sulfur (Microscopic Sulphur<sup>®</sup>92 WP), captan (Maestro<sup>®</sup>80 DF), kresoxim-methyl (Sovran<sup>®</sup>50 WG), metiram (Polyram<sup>®</sup>80 WP), boscalid (Lance<sup>®</sup>70 WDG) and myclobutanil (Nova<sup>®</sup>40 WP) were harmless to *A. baccarum* adult mites. In contrast, a dried residue of mancozeb (Dithane<sup>®</sup>M-45) was moderately toxic at the field rate and the LC<sub>50</sub> was estimated at 1.88 g a.i.l<sup>-1</sup> (1.2-fold the field rate). These findings are only part of the toxicity attributes of these fungicides, since only effects on adults were studied. Once a reliable rearing technique for *A. baccarum* is developed, effects on immatures, fecundity and egg hatch should be evaluated to complete our understanding of the effects of these fungicides on this predator.

KEY WORDS: Orchards; pesticides; predacious mites; side effects; vineyards.

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