

Mating Disruption/SIR

Field Evaluations of Consep's Sprayable Pheromone Formulations

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In 1997, Consep, Inc. obtained registration for its first commercial mating disruption product based on microencapsulated technology. This microencapsulated product is a water-based, liquid suspension formulation that can be applied through conventional spray equipment for the control of pink bollworm (*Pectinophora gossypiella*). The introduction of microencapsulated formulations offers growers new flexibility in the application of pheromones for mating disruption of targeted pests.

Since the introduction of its first microencapsulated formulation, CheckMate® PBW-F, Consep has introduced three additional microencapsulated formulations: CheckMate TPW-F for control of tomato pinworm (*Keiferia lycopersicella*), CheckMate OFM-F for control of oriental fruit moth (*Grapholita molesta*), and CheckMate OLR-F for control of omnivorous leafroller (*Platynota sultana*). In the case of CheckMate OFM-F and CheckMate OLR-F these formulations provide mating disruption from a single application for 30 days or longer. These formulations have been found to be compatible with most agricultural pesticide formulations and spray adjuvants.

Consep, Inc. continues to work on the encapsulation of other pheromone targets including: peach twig borer (*Anarsia lineatella*), codling moth (*Cydia pomonella*) and diamondback moth (*Plutella xylostella*).



