Search summary:
I recently researched the pheromone of 942 Monterey County moth species. 863 of the species of 413 Genus that is (92%) of the moths, the pheromone compounds are unknown. 67 Species of 48 Genus do not share the pheromone compounds found in OLR-F & LBAM-F. 14 of the 942 species share some of the pheromone compounds found in OLR-F & LBAM-F. In 3 of the 14 species, their primary pheromone compound is the identical primary pheromone compound found in OLR-F & LBAM-F. Wide spread aerial spraying may cause irreparable harm to non-target species including humans, the extent of which is unknown. Non-spraying methods such as sticky traps would greatly reduce the potential harm to non-target species and the environment.

According to CDFA and the manufacturer (proponents), the OLR-F is specific to the Omnivorous leafroller. The proponents claim the OLR-F spray is expected to have a 80% efficacy rate against the LBA moth. By the proponents own admission, the OLR-F spray is affecting non-target species, such as the LBA moth. Additionally, there are many Lepidoptera that share the same primary attractant pheromone as the LBAM and Omnivorous leafroller. Therefore many Lepidoptera share the same primary attractant pheromone that is in OLR-F & LBAM-F spray. I suspect non-target species who share the E11-14Ac as their primary pheromone compound are in danger of mating disruption.

Chemical compounds in CheckMate pheromone spray: 14 non-target moth species confirmed in Monterey County share Checkmate pheromone compounds in their attractant pheromone. LBAM-F & OLR-F: E11-14Ac primary compound of attractant pheromone found in 8 species Z11-14Ac compound of attractant pheromone found in 6 species E9E11-14Ac compound found in 2 species

Active ingredients LBAM-F & OLR-F: (primary pheromone compound E11-14Ac)

CheckMate© LBAM-F
active ingredients:
(E)-11-Tetradecen-1-yl Acetate ............... 16.90% = Tetradecenyl acetate E11-14Ac
(E,E)-9,11-Tetradecadien-1-yl Acetate........ 0.71% = Tetradecadienyl acetate E9E11-14Ac
Other ingredients:.........................82.39%

CheckMate© OLR-F
active ingredients:
(E)-11-Tetradecen-1-yl acetate ............. 20.6% = Tetradecenyl acetate E11-14Ac
(Z)-11-Tetradecen-1-yl acetate ............ 3.19% = Tetradecenyl acetate Z11-14Ac
Other ingredients:.........................76.24%

Information sources used in research:
942 moths in Monterey County: http://bscit.berkeley.edu/eme/Browse_Calmoth_Counties.html
Pheromone database: http://www.pherobase.com/
Pheromone database: http://www.nysaes.cornell.edu/pheronet/speciesindex.html

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