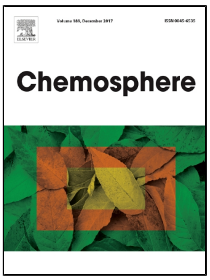
Accepted Manuscript



Investigation of the lethal and behavioral effects of commercial insecticides on the parasitoid wasp *Copidosoma truncatellum*

Rodrigo S. Ramos, Vitor C.R. de Araújo, Renata R. Pereira, Júlio C. Martins, Obiratanea S. Queiroz, Ricardo S. Silva, Marcelo C. Picanço

PII:	S0045-6535(17)31698-3
DOI:	10.1016/j.chemosphere.2017.10.113
Reference:	CHEM 20135
To appear in:	*Chemosphere*
Received Date:	24 August 2017
Revised Date:	19 October 2017
Accepted Date:	20 October 2017

Please cite this article as: Rodrigo S. Ramos, Vitor C.R. de Araújo, Renata R. Pereira, Júlio C. Martins, Obiratanea S. Queiroz, Ricardo S. Silva, Marcelo C. Picanço, Investigation of the lethal and behavioral effects of commercial insecticides on the parasitoid wasp *Copidosoma truncatellum*, *Chemosphere* (2017), doi: 10.1016/j.chemosphere.2017.10.113

Highlights

1. The effects of nine insecticides on the parasitoid *C. truncatellum* were evaluated.
2. Of the nine insecticides, chlorantraniliprole, chlorfenapyr, flubendiamide and indoxacarb showed the lowest toxicities to the parasitoid.
3. Cartap, deltamethrin and methomyl caused 100% parasitoid mortality.
4. Acephate, flubendiamide, indoxacarb and methomyl changed the behavior of the parasitoid.
5. Chlorantraniliprole and chlorfenapyr are the most suitable insecticides for IPM programs.