

The Toxicity Effects of HICIDE VD-9 on the Mortality of *Lucilia cuprina* under Laboratory Conditions

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Abstract : Cypermethrin is one of the most widely used synthetic insecticides to control pests in veterinary, industrial and agricultural environments. In the present study, the mortalities of *Lucilia Cuprina* as the key pest of meat were studied after being exposed to HICIDE VD-9 (a ready-to-use disinfectant/insecticide containing cypermethrin, polyhexanide and quaternary ammonium compounds produced by Dana pharmed lotus Co., Iran) within 15 minutes. The experimental results showed that mortalities percentage of egg, larvae and adults of *Lucilia Cuprina* were 48%, 81% and 70%, respectively. Based on the obtained results, it can be predicted that in addition to controlling the insect pests of blow flies, HICIDE VD-9, as a cost-effective and environmentally friendly disinfectant/insecticide, can be effective against other insects, e.g., biting flies, fleas, midges, mosquitoes and ticks.

Keywords : cypermethrin, HICIDE VD-9, *Lucilia cuprina*, mortality, toxicity

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