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Title: Biological Effects of Pyrimethinal on Aquatic Worms (Tubifex tubifex) Under Laboratory Conditions

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Abstract: Laboratory studies were conducted to determine the effects of different concentrations of pyrimethinal on protein contents, and some oxidative stress in Tubifex tubifex after an exposure of 2, 4, and 7 days. Residues of the fungicide were followed in water and in the worms. In water, pyrimethinal concentration decreased slowly (maximum -6.4 % +/- A 0.8 % after 2 days for 25 mg L-1). In the worms, it increased after 4 days and decreased thereafter. LC50 values were between 49.2 +/- A 0.58 and 39.5 +/- A 0.95 mg L-1 depending on exposure time. The activity of catalase increased in response to the fungicide after 2 days of exposure to 25 mg L-1 of pyrimethinal (+90 %). The highest decrease of glutathione-S-transferase activity (-29.7 %) was found after 7 days in the presence of 25 mg L-1.

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