



Ecological Risk Assesment of the Fungicide Tricyclazole(75%) on Ophiocephalus leucopunctatus (Sykes,1839) with Respect to Hepatic Enzymes and Pathological Anamolies

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Relatively recent discoveries of the ecosystem disrupting properties of some fungicides have raised interest in how contemporary pesticide exposures ,which primarily take the form of low level environmental or occupational exposures, impact hepatic enzymes and the pathology of the liver and kidney tissues. The target organism was Ophiocephalus leucopunctatus , a high edible value fish grown in rice fields. Tricyclazole the speculation fungicide is a moderately toxic triazole fungicide used in the rice fields to control Rice Blast disease. The LC50 value of the fungicide to the target species was 15ppm and curiously the fungicide was used at 1000ppm concentration in the fields. This prompted us to review the effects of the fungicide on the target organism in the fields or as runoff from the fields to nearby

lakes or ponds. The Sub Acute study was designed to study the fungicide effects in field and in runoff environment. The Biochemical parameters studied were the hepatic enzymes Alkaline phosphatase ($P<0.0001$) and with confidence limits 95% and Alanine Transaminase ($P<0.0001$) and with confidence limits 95% which revealed a concentration dependant increase in the values with days of exposure.

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