

## RINGKASAN

ENI YUNIASTUTI. J 201 92 0746. Pengaruh Konsentrasi Sublethal Diazinon 60 EC Terhadap Udang Windu (*Penaeus monodon* Fab.) Stadia Pasca Larva (dibawah bimbingan Hendarko Sugondo dan Jafron Wasiq Hidayat).

Insektisida diazinon 60 EC sangat potensial mencemari perairan dan banyak digunakan di area pertanian dewasa ini. Penggunaan insektisida ini dapat membahayakan kehidupan organisme perairan seperti udang windu (*Penaeus monodon* Fab.)

Penelitian ini bertujuan untuk mengetahui nilai LC 50-96 jam diazinon 60 EC, mengetahui dan mengkaji pengaruh konsentrasi sublethal diazinon 60 EC terhadap pertumbuhan dan perbedaan konsumsi pakan udang windu stadia pasca larva.

Metode penelitian menggunakan metode "bioassay" statis, meliputi 3 tahapan, yaitu : penentuan batas konsentrasi ambang, penentuan konsentrasi LC 50-96 jam dan penentuan konsentrasi sublethal. Rancangan yang digunakan adalah Rancangan Acak Lengkap dengan perlakuan 6 konsentrasi diazinon 60 EC dan dilakukan dengan 3 kali ulangan.

Hasil pengujian menunjukkan bahwa nilai batas konsentrasi ambang diazinon 60 EC terhadap udang windu stadia pasca larva adalah  $10^{-5}$ - $10^{-2}$  ppm, dan nilai konsentrasi LC 50-96 jam sebesar  $6,4 \times 10^{-4}$  ppm. Adapun konsentrasi sublethal yang diperlakukan adalah ( $3,2 \times 10^{-5}$  ppm), ( $6,4 \times 10^{-5}$  ppm), ( $9,6 \times 10^{-5}$  ppm), ( $1,28 \times 10^{-4}$  ppm), ( $1,6 \times 10^{-4}$  ppm). Konsentrasi sublethal tersebut telah menghambat pertumbuhan, serta mengurangi konsumsi pakan udang windu stadia pasca larva.

## SUMMARY

ENI YUNIASTUTI. J 201 92 0746. The Effect of Diazinon 60 EC Sublethal Concentration On The Penaeid Shrimp (*Penaeus monodon* Fab.) Pasca Larvae Phase (Hendarko Sugondo and Jafron Wasiq Hidayat).

Diazinon 60 EC Insecticide is very potential to pollute the aquatic ecosystem. Mostly applied in agriculture areas in this time. This utilization of insecticide can endanger to aquatic organism such as *Penaeus monodon*.

This research is purpose to know the lethal concentration (LC) 50-96 hours of diazinon 60 EC, to observe the effect of diazinon 60 EC sublethal concentration on the growth, and difference feeding consumption.

Research is done by bioassay static method, consist of 3 step : namely, i.e threshold concentration limit, LC 50-96 hours concentration and sublethal concentration. Research design is Complete Randomized Design of 6 treatment of diazinon 60 EC concentration and undertaken on three repetitions.

As a result, threshold concentration limit of diazinon 60 EC on the *Penaeus monodon* pasca larvae phase is  $10^{-5}$ - $10^{-2}$  ppm. Effective concentration (LC 50-96 hours is  $6,4 \times 10^{-4}$  ppm. The sublethal concentration can applied are ( $3,2 \times 10^{-5}$  ppm), ( $6,4 \times 10^{-5}$  ppm), ( $9,6 \times 10^{-5}$  ppm), ( $1,28 \times 10^{-4}$  ppm), ( $1,6 \times 10^{-4}$  ppm). That sublethal concentration have inhibition growth and decrease feeding consumption of Penaeid shrimp pasca larvae phase.