

**KEEFEKTIFAN CAMPURAN GARAM TEMBAGA -KROMIUM-BORON  
TERHADAP RAYAP DAN JAMUR PERUSAK KAYU  
(Effectiveness of Copper-Chromate-Boron Salts Formula Against Wood Termites and  
Fungi)**

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ABSTRACT

The objective of this investigation was to evaluate the toxicity of copper-chromate-boron salts formula against wood termites and fungal attack., The chemicals used. in this experiment were those of "technical grade". Results indicated that the preservatives used were highly effective to prevent wood from subterranean termite *Coptotermes curvignathus* Holmgren and dry wood termite *Cryptotermes cynocephalus* Light. The preservative brought about 100% termite mortality at 1% concentration 1% and retention of more than 5.30 kg/m<sup>3</sup>. Higher preservative concentration (7.5%) and retention (above 30 kg/m<sup>3</sup> *Schizophyllum commune*).

Keywords: Chromated-copper-boron, subterranean termite, dry wood termite, rotting fungi

ABSTRAK

Tujuan penelitian ini adalah mengevaluasi toksisitas formula garam tembaga-kromiumboron terhadap serangan rayap dan jamur perusak kayu. Dalam penelitian ini digunakan bahan kimia kualitas teknis. Hasil pengujian menunjukkan bahwa bahan pengawet yang digunakan sangat efektif mencegah serangan rayap tanah *Coptotermes curvignathus* Holmgren dan rayap kayu kering *Cryptotermes cynocephalus* Light. Keefektifan ditunjukkan oleh tingkat mortalitas rayap 100% pada konsentrasi 1% dan retensi lebih dari 5.30 kg/m<sup>3</sup>. Namun demikian terhadap jamur pelapuk kayu *Schizophyllum commune* konsentrasi efektif diperoleh pada larutan 7,5% dan retensi di atas 30 kg/m<sup>3</sup>.

Kata kunci: Tembaga-kromium-boron, rayap tanah, rayap kayu kering, jamur pelapuk kayu