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## **REDUCING THE ENVIRONMENT HAZARD USING THE LIGNOSULFONATES AS COPOLYMERIZATION PARTNERS**

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### **Abstract**

Taking into account the main demand regarding the environment protection and the need for wood preservation, our research has been focused on the developing of some new chemical agents for wood preservation, based on acrylic copolymers and metal complexed lignosulfonates.

Some aspects of the emulsion copolymerization of the acrylic comonomers (ethyl acrylate, butyl acrylate, acrylonitrile, acrylic acid) with metal complexed lignosulfonates, as well as the biocide activity of the copolymers, put into evidence by biological testing at "National Wood Institute"- Bucharest were investigated. The possibility of obtaining of new type of wood preservatives based on the lignin derivatives should to gain a great interest in the future, regarding both the using of some raw materials as reactants for organic synthesis and the increasing need for medium protection.

*Keywords:* acrylic comonomers, metal complexed lignosulfonates, biocide activity, emulsion copolymerization, wood preservation agents.

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