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Patent Search

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Abstract:

ABSTRACT This invention discloses coo-friendly paint and electrical insulation liquid formulations utilizing lignin and tannin extracted from banana sheaths and cocor The extraction process involves soda pulping for lignin and solvent extraction for tannin. These bio-polymers are combined with cog-friendly solvents, pigments, thick additives, and plasticizers to produce high-perfonnance, sustainable products. The formulations are prepared using specific mixing times and methods to ensure tho dispersion and homogeneity. This innovative approach offers a non-toxic, cost-effective alternative to conventional products, promoting environmental sustainability industrial applicability.

Complete Specification

FIELD OF INVENTION

This invention pertains to the field of environmentally sustainable materials, focusing on the development of eco-friendly paint and electrical insulation liquid utilizing lignin and tanhin extracted from agricultural waste products, specifically banana sheaths and coconut husks.

BACKGROUND OF INVENTION

Traditional paints and electrical insulation liquids often contain harmful phemicals that pose significant environmental and health risks. With the growing emphasis on sustainability and stricter environmental regulations, there is a pressing need for green alternatives. Lignin and tannin, naturally occurring bio-polymers found ‘in abundance in banana sheaths and coconut husks, possess excellent binding, antioxidant, and insulating properties. This invention harnesses these properties to create coo-friendly products that meet performance standards while being environmentally benign.

DESCRIPTION OF THE INVENTION

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The invention describes the processes and fonnulations for producing green paint and electrical

View Application Status

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