

Title (en)

HIGH MOLECULAR WEIGHT POLYMER ADDITIVE FOR COATING AND LUBRICATING PRODUCTS

Title (de)

HOCHMOLEKULARER POLYMERZUSATZ FÜR OBERFLÄCHENBESCHICHTUNGS- UND SCHMIERMITTEL

Title (fr)

ADDITIF A BASE DE POLYMERES A POIDS MOLECULAIRE ELEVE POUR PRODUITS DE REVETEMENT ET DE LUBRIFICATION

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Application

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Abstract (en)

[origin: WO9927039A1] An ultrahigh molecular weight polymer, such as ultrahigh molecular weight polyisobutylene, is used as an additive to enhance the lubricating/coating properties of a solvent. The polyisobutylene has a molecular weight of at least 2.5 - 3.0 million daltons, preferably greater than about 6 daltons, and is provided in a preferred concentration of 0.05 to 0.3 %. The solvent can be a medicinal grade mineral oil. Other suitable solvents include hydrocarbon oil and low viscosity, synthetic compositions. In all cases, the lubricating/coating properties of the solvent are greatly enhanced by the addition of ultrahigh molecular weight polyisobutylene. In another aspect of the invention, ultrahigh molecular weight polyisobutylene is used as an additive to enhance the viscoelasticity of a mineral oil based sunscreen formulation. In still another aspect of the invention, the fibers of a fabric material are coated with an ultrahigh molecular weight polymer to greatly strengthen the fabric.

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