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(54) Title: POLYURETHANE PRODUCTS PRODUCED FROM ALUMINUM PHOSPHONATE CATALYZED POLYETHEROLS

(57) Abstract: A method for the production of polyurethane products using very low unsaturation polyether polyols prepared in the presence of aluminum phosphonate catalysts is disclosed. Reaction products of the process include various polyurethane products including foams, coatings, adhesives, sealants and elastomers. The aluminum phosphonate catalyst preferably has a general structure of RPO-(OaIR'r")₂, wherein O represents oxygen, P represents pentavalent phosphorous, Al represents aluminum, R comprises a hydrogen, an alkyl group, or an aryl group, and R' and R" independently comprise a halide, an alkyl group, an alkoxy group, an aryl group, or an aryloxy group.



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