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**POLYMERIZATION AND COPOLYMERIZATION OF  $\beta$ -METHACRYLOXYETHYLDIALKYL PHOSPHATES,  $\beta$ -METHACRYLOXYETHYLDIALKYL PHOSPHITES AND MIXED ANHYDRIDES OF METHACRYLIC AND DIALKYLPHOSPHOROUS ACIDS\***

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IN PREVIOUS reports we have described the synthesis, polymerization and copolymerization of various  $\alpha$ -(dialkylphospho)alkyl esters of methacrylic acid [1]. A study has been made of the effect of various factors on the rate of polymerization and the properties of polymers and copolymers formed. The polymers and copolymers were solid, rubber-like or pasty products with varying degrees of adhesion to glass and low inflammability and self-extinction. Continuing these investigations, we obtained several new phosphorus-containing esters of methacrylic acid belonging to the series of  $\beta$ -methacryloxyethylalkyl phosphites,  $\beta$ -methacryloxyethylalkyl phosphates, mixed anhydrides of methacrylic and dialkylphosphorous acids. The synthesis and certain chemical properties of these compounds were described by the authors in references [2, 3]. This investigation

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