

ADDUCTS OF LEVULINIC DERIVATIVES WITH EPOXIDIZED FATTY ACID ESTERS AND USES THEREOF

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ABSTRACT

The present disclosure relates to methods of preparation of compounds resulting from the reaction of levulinic esters and epoxidized unsaturated fatty acid esters. The compounds are useful as renewable biomass-based plasticizers for a variety of polymers. Mono-, di- and tri-ketal adducts formed in a reaction between alkyl
10 esters of levulinate and epoxidized unsaturated fatty acid esters derived from vegetable oils are also disclosed.

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