



ABSTRACT

SULPHONIC ACID ESTERS, RADIATION-SENSITIVE MIXTURES
MADE THEREWITH, AND THEIR USE

The invention relates to sulphonic acid ester and radiation-sensitive, positive or negative tone mixtures made therewith, with: a) a compound forming a strong acid on irradiation; b) either a compound with at least one acid-decomposable C-O-C or C-O-Si bond (for positive tone mixture) or a compound with at least acid-cross-linkable groups (for a negative tone mixture) and c) a water-insoluble binder which however is soluble or at least wettable in aqueous-alkaline solutions, in which compound a) is a sulphonic acid ester of the formulae $[R^1-CR^2(CF_3)-O-SO_2-]_nR^3$ or $R^1[-CR^2(CF_3)-O-SO_2-R^3]_m$. The mixtures exhibit unexpectedly high sensitivity in the DUV range and improved resolution. It is especially advantageous that the mixtures are insensitive to changes in the storage time between exposure and post-heating.

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