

ELECTRICALLY STABILIZED LIQUID TONERS

ABSTRACT

A homogeneous liquid composition, for use in the preparation of liquid toners containing at least one charge director and in which the electrical properties of the charge director(s) is/are stabilized, comprises: (1) insulating non-polar carrier liquid compatible with liquid toners for electrostatic imaging; (2) at least one charge director other than an amine salt; and (3) at least one stabilizing component in an amount effective to stabilize the electrical properties of said at least one charge director, said component being selected from non-quaternary amine salts and being soluble in the carrier, e.g. diethylammonium chloride and isopropylamine dodecylbenzenesulfonate. The invention further relates to liquid toners for electrostatic imaging comprises thermoplastic resin particles dispersed in an insulating non polar carrier liquid, preferably a hydrocarbon having a volume resistivity above 10^9 ohm-cm and a dielectric constant below 3.0, colorant particles micro-dispersed in said carrier liquid, at least one charge director, and at least one stabilizing component (3), as defined above; a method for producing the liquid toners; and an electrostatic imaging process utilizing the liquid toners.

Figure 2

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This is the replacement sheet

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