

ABSTRACT

LIQUID COMPOSITIONS CONTAINING CARBOXYLIC ESTERS

The invention relates to liquid compositions which comprises (A) at least one fluorine-containing hydrocarbon containing one to three carbon atoms; and a lubricant comprising (B) at least one carboxylic ester of (I) a polyhydroxy compound, and (II) a combination of (a) a monocarboxylic acylating agent having four or five carbon atoms, (b) a monocarboxylic acylating agent having from about 7 to about 15 carbon atoms and (c) a polycarboxylic acylating agent. In another aspect of the invention, the liquid compositions consist essentially of (A) at least one fluorine-containing hydrocarbon, and (B) at least one ester of (I) at least one polyhydroxy compound described herein and (II) at least one combination of carboxylic acylating agents as described herein. The lubricant may additionally contain (C) an additive selected from the group consisting of an alkyl phosphite, an alkyl phosphonic acid ester, a nitrogen-containing heterocycle, and a mixture thereof. Liquid compositions also are described wherein the fluorine containing hydrocarbons also contain other halogen such as chlorine. The liquid compositions are useful particularly as refrigeration liquids in refrigerators and air-conditioners including automotive, home and industrial air-conditioners.