

## Title (en)

Liquid compositions containing carboxylic esters.

## Title (de)

Carbonsäureester enthaltende flüssige Zusammensetzungen.

## Title (fr)

Compositions liquides contenant des esters carboxyliques.

## Publication

**EP 0571091 A1 19931124 (EN)**

## Application

**EP 93303329 A 19930428**

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US 87494692 A 19920429

## Abstract (en)

This invention relates to a liquid composition comprising (A) at least one fluorine-containing hydrocarbon containing one to three carbon atoms, and a lubricant comprising (B) at least one ester lubricant selected from the group consisting of (i) an ester of a polyhydroxy compound and a monocarboxylic acylating agent having from about 4 to about 15 carbon atoms, and (ii) an ester of polyhydroxy compound and a combination of a dicarboxylic acylating agent and a monocarboxylic acylating agent having about 7 to about 15 carbon atoms, and (C) at least one 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 halogens such as chlorine. Methods of lubricating refrigeration systems are also described. The liquid compositions are useful particularly as refrigeration liquids in refrigerators and air-conditioners including automotive, home, commercial and industrial air-conditioners.

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## IPC 8 full level

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