Title (en)

FATTY ESTER COMPOSITIONS WITH IMPROVED OXIDATIVE STABILITY

Title (de)

FETTESTERZUSAMMENSETZUNGEN MIT VERBESSERTER OXIDATIONSSTABILITÄT

Title (fr)

COMPOSITIONS D'ESTERS GRAS DOTÉES D'UNE STABILITÉ AMÉLIORÉE À L'OXYDATION

Publication

EP 2334767 B1 20130529 (EN)

Application

EP 09782335 A 20090828

Priority

- EP 2009061136 W 20090828
- US 9261708 P 20080828

Abstract (en)

[origin: WO2010023277A1] Compositions containing unsaturated fatty esters may be stabilized against atmospheric oxidation by the addition of an antioxidant package containing at least onenitroxide free-radical scavenger and at least one alkylalkanolamine. Compositions treated in this manner show good resistance to atmospheric oxidation and resultant viscosity increase.An advantage of the nitroxide free-radical scavenger is that it stops the oxidation of the unsaturated fatty esters already during the initiation stage. Moreover, it is much less volatile than for example the known alkylhydroxylamine oxygen scavengers. By the use of a nitroxide free- radical scavenger, the composition can thus be stabilized for a longer period of time. The stability period is moreover less affected by the supply of oxygen to the composition. The solubility problem of the nitroxide in the fatty ester component can be solved by dissolving the nitroxide first in the alkylalkanolamine.

IPC 8 full level

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CPC (source: EP US)

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