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(54) Title: A LIQUID ANTIOXIDANT COMPOSITION FOR RAW RUBBERS

(57) Abstract: The present invention provides a liquid antioxidant composition used for raw rubbers comprising 5% to 30% by weight of at least one aromatic amine-based antioxidant agent, 20% to 70% by weight of at least one hindered phenol-based antioxidant agent, 0% to 40% by weight of at least one phosphite-based antioxidant agent; and 20% to 40% by weight of at least one solvent having boiling point higher than 185°C and freezing point lower than -10°C under 101.325KPa, the weight percentage of component a), b), c) or d) is based on the total weight of antioxidant composition, wherein the mixture of component a), b) and c) is liquid at 25°C under 101.325KPa. The present invention also provides a liquid antioxidant composition comprising 5% to 20% by weight of solid aromatic amine-based antioxidant agent, 20% to 50% by weight of solid hindered phenol-based antioxidant agent, 0% to 30% by weight of solid phosphite-based antioxidant agent and 30% to 40% by weight of solvent having boiling point higher than 185°C and freezing point lower than -10°C under 101.325KPa. The weight percentage is based on the total weight of antioxidant composition. The present invention further provides an application of said liquid antioxidant composition in raw rubbers such as natural rubber and raw rubbers synthesized via solution polymerization.

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