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ABSTRACT

DIHYDROCARBYL DITHIOPHOSPHATES

A mixed zinc/copper dihydrocarbyl dithiophosphate, e.g. of zinc diethyl-hexyl dithiophosphate and cuprous diethyl-hexyl dithiophosphate, is prepared by reacting a dihydrocarbyl dithiophosphoric acid (DDPA) with a mixture of a basic zinc compound eg ZnO , and a basic copper compound eg Cu_2O , preferably in the presence of a promoter, eg zinc acetate. The product is a good antioxidant for use in lubricating oils.

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