

Title (en)
Match head formulations

Title (de)
Zusammensetzungen für Zündholzköpfe

Title (fr)
Compositions pour boutons d'allumettes

Publication
EP 0814070 A1 19971229 (EN)

Application
EP 97303819 A 19970604

Priority
GB 9612729 A 19960618

Abstract (en)
Match head formulations suitable for the production of safety matches and matches that may be struck anywhere are described which include metal chelate complexes of iron, copper, chromium or vanadium and citric acid, lactic acid, tartaric acid and EDTA. The metal chelate complexes may be combined with conventional match head compositions in which chromium compounds, sesqui-based phosphorus compounds, sulphur compounds and oxides of zinc present or preferably combined with environmentally friendly compositions using either amorphous phosphorus or, optionally, in the case of match head formulations suitable for the production of safety matches, an iron phosphide known as ferrophosphorus. These formulations are environmentally friendly both in manufacture and use. Environmentally friendly match head formulations which may be brightly coloured are also described.

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Citation (search report)

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- [A] CHEMICAL ABSTRACTS, vol. 109, no. 14, 3 October 1988, Columbus, Ohio, US; abstract no. 112935j, Y. HAGIHARA ET AL.: "Effects of organoiron compounds on burning rate and slurry viscosity of AP-HTPB composite propellants." page 147; XP002041508 & KOGYO KAYAKU, vol. 49, no. 2, 1988, pages 119 - 123

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