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This study aims at improving the safety profile and hazardous effects of colored food additive ligation due to chemical interaction with heavy metal ions, and predicting the hazard. The study based in mixing of 0.01 M of each ligand and the same weights of metal chlorides⁺(CrMn⁺⁺, Fe⁺⁺, Co⁺⁺, Ni⁺⁺, Cu⁺⁺, Zn⁺⁺ and Cd⁺). The st04 548 10 2 Rgto()8.1 (g 25u)n dr