



Environmental Monitoring and Biodiagnostics of Hazardous Contaminants

M. Healy, D.L. Wise, M. Moo-Young

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In recent years public awareness of the long term toxic affects heavy metal ions in waters and wastewaters has increased significantly. Environmental agencies have been imposing more and more stringent discharge limits on industries involved in processes using metal ions. Numerous industries produce aqueous effluents containing metal ions and particularly copper and cadmium. Copper sulfate is used on a large scale in the electroplating industries. In addition, copper salts are used as fungicides, timber preservatives, insecticides, paint corrosion inhibitors and in dyestuffs. Cadmium is used in the manufacture of nickel-cadmium batteries, as a corrosion inhibitor and control rods in the nuclear industry. The European Community has listed cadmium as one of the most dangerous metal due to its toxicity, persistence and bioaccumulation in List 1 of its Directive 76/464/EEC. Therefore, it is important that methods for the removal of these metal ions are found and that the mechanism of removal is characterized and understood. A number of adsorbents have been identified which are capable of removing copper (Panday et al. , 1985; Ho et al. , 1996; Low and Lee, 1987; Low et al. , 1993; Quek et al. , 1998) and cadmium (Battacharya and Venkobachar, 1984; Namasivayam and Ranganathan, 1995; Periasamy and Namasivayam, 1994) from aqueous solutions. Sorption kinetic models have been proposed for some systems.

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