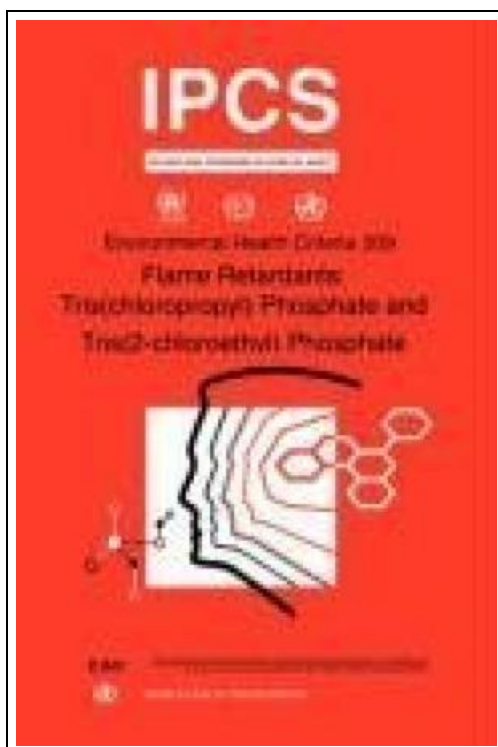


Flame Retardants: Tris(Chloropropyl) Phosphate and Tris (2-Chloroethyl) Phosphate



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FLAME RETARDANTS: TRIS(CHLOROPROPYL) PHOSPHATE AND TRIS (2-CHLOROETHYL) PHOSPHATE



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World Health Organization, Switzerland, 1999. Paperback. Book Condition: New. 208 x 138 mm. Language: English . Brand New Book ***** Print on Demand *****.This book evaluates the risks to human health and the environment posed by exposure to three flame retardants: tris(1-chloro-2-propyl) phosphate (TCPP), tris(1,3-dichloro-2-propyl) phosphate (TDCPP), and tris(2-chloroethyl) phosphate (TCEP). In view of their many similarities, TCPP and TDCPP are covered together. Data on all three flame retardants are extremely limited and largely confined to studies of environmental levels and adverse effects detected in experimental animals and in vitro test systems. The monograph on TCPP and TDCPP describes manufacturing processes and summarizes current uses. The vast majority of TCPP is used in rigid polyurethane foams, with main applications in insulation for buildings and in refrigerator casings. TDCPP is likewise added as a flame retardant to polyurethane foam and has some additional applications as a flame retardant for non-woven fabrics. For both chemicals, studies show that residues are found infrequently and at low concentrations in food items. For TCPP, traces have been detected in industrial and domestic effluents but not in surface water or drinking water. Traces of TDCPP have been detected in sewage effluent, river water, seawater, drinking water, and water sediment and in fish. In view of the low volatility of both chemicals, the report concludes that human exposure from these sources will be very low and will not present an acute health hazard for the general population. Likewise, no adverse effects on the environment are anticipated from the use of either of these flame retardants. Experimental studies of TCPP in laboratory animals demonstrate low to moderate toxicity by the oral, dermal, and inhalation routes. Tests indicate that the chemical is neither a skin nor an eye irritant. No studies were available to evaluate reproductive toxicity, immunotoxicity, or...



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