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Polychlorinated Biphenyls (PCBs): Mammalian and Environmental Toxicology

By -

Springer-Verlag Berlin and Heidelberg GmbH Co. KG, Germany, 2011. Paperback. Book Condition: New. 241 x 168 mm. Language: English . Brand New Book ***** Print on Demand *****.Polychlorinated biphenyls (PCBs) have been produced commercially since before 1930. They proved to be highly versatile mixtures and their uses continued to expand during the early 1970s even after the unanticipated world-wide environmental contamination had been discovered (Jensen et al., 1969; Koeman et al., 1969). Over 600,000 metric-tons were produced and/or used in the U. S. during this time and it is estimated that worldwide production totaled about 1,200,000 metric-tons (Table 1). With low acute toxicities (Fishbein, 1974), these mixtures were considered generally biologically inactive even though industrial exposure had demonstrated hepatic and dermatological effects (Fishbein, 1974; Hansen, 1987). Thus, use and disposal were not carefully monitored and it is estimated that one-third of the world-wide production of PCBs has been released into the global environment (Table 1). Table 1. Estimated production and disposition of PCBs by U. S. a Worldwide 66 Production/use 610 X 10 kg 1200 X 10 kg Mobil environmental reservoir 82 400 Static reservoirs In service 340 Dumps 130 Total static...



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