Use and Replaceability of Polychlorinated Biphenyls

National Bureau of Standards, Washington, D.C. (240 800)

Final rept.
AUTHOR: Broadhurst, Martin G.
C0191L1 FLD: 11G, 13D, 68A, 68D, 71M, 86V USGRDR7303
1972 22p
MONITOR: 18
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ABSTRACT: The study has included consideration of the uses and replaceability in polychlorinated biphenyls (PCB's) in the following areas: Dielectric fluids for capacitors and transformers; Industrial fluids for hydraulic, gas turbine and vacuum pump uses; Heat transfer fluids; and Plasticizers and miscellaneous uses. (Author)

DESCRIPTORS: (*Chlorine aromatic compounds, Utilization), Dielectrics, Heat transfer, Plasticizers, Industrial wastes, Biphenyl

IDENTIFIERS: *Biphenyl/chloro

COM-72-51054 NTIS Prices: Not available NTIS

MONS 054395

Transfer of Pesticides through Water, Sediments and Aquatic Life

Rhode Island Univ., Kingston.

Final rept.
AUTHOR: Olney, Charles E.
CC123A4 FLD: 13B, 6F, 68D, 57H USGRDR7302
1972 14p
CONTRACT: DI-14-31-0001-3240
PROJECT: OWRR-A-038-RI
MONITOR: OWRR-A-038-RI(1)

ABSTRACT: Analysis of water, sediment and fish from 32 ponds and rivers of Rhode Island indicate that residues of polychlorinated biphenyls (PCB's) have accumulated in the sediments and fish of most watersheds of the state. Residues of DDT and its metabolites were also found in most samples. Other chlorinated hydrocarbon insecticides found in some samples were chlordane, dieldrin, lindane, a-BHC, endosulfan I, and dacthal. With a few exceptions, where local contamination might be postulated, no residues exceeding 50 ppt PCB or 10 ppt pesticide were detected in water samples, while residues in whole fish (wet weight basis) and sediments (dry weight basis) were less that 500 ppb PCB, 500 ppb DDT, 50 ppb chlordane and 50 ppb dieldrin. (Author)

DESCRIPTORS: (*Water pollution, *Pesticides), (*Rhode Island, Water pollution), (*Chlorine organic compounds, Water pollution), DDT, Biphenyl, Biodeterioration, Insecticides, Chlordane, Dieldrin, Sediments, Fishes, Residues, Concentration(Composition)

IDENTIFIERS: *Pesticide residues, Biphenyl/chloro, Lindane, Endosulfan , DCPA herbicide

PB-213 172/0 NTIS Prices: PC$3.00/MF$0.95