TOXICOLOGY BRANCH: DATA REVIEW

Chemical: Trichlorfon (TCF)

Caswell No.: 385
Shaughnessey No.: 057901

Study Type: Acute (delayed) Neurotoxicity in Hens

Citation: Kimmerle, G. and E. Loeser. 1974. Delayed neurotoxicity of organophosphorus compounds and copper concentration in the serum of hens. Environ. Qual. Safety 3:173-178

Accession No./MRID No.: GS-0104-085

Sponsor/Contracting Lab.: N/A (Published article)

Report No./Date: N/A

Test Material: "Dipterex" (of unknown source), purity of a.i. not specified.

Procedures: Test substance was given orally and i.p. to an unspecified number of White Leghorn adult hens (16-18 months) weighing 1.5 to 2.0 kg at single doses of 25 to 100 mg/kg and observed up to 42 days; or, fed dietary concentrations of 500, 1000, 2000 or 5000 ppm for 30 days and brain, spinal cord and "N. ischiadicus" (not identifiable) examined histologically. Control hens were given tri-ortho cresyl phosphate (TOCP).

Results: Compared to positive effects of TOCP, neither acute administration nor 30-days feeding of trichlorfon produced neurotoxic signs. Demyelination was observed in TOCP-fed hens at neurotoxic levels of 10 ppm and higher, but no histological lesions at any level of test substance.

Conclusions: The usefulness of this negative study is questionable given the inadequate reporting. The test substance was not identified, the number of animals unstated, and the procedures inadequately described.

Core Classification: Invalid

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