TOXICOLOGY BRANCH: DATA REVIEW

Chemical: Trichlorfon (TCF)

Caswell No.: 385
Shaughnessey No.: 057901

Study Type: Reproduction/Teratology in chickens, rats and rabbits.

Citation: "Preliminary Study On The Effect Of Subtoxic Doses Of Dipterex And Metasistox On Pregnant Animals, Embryos And The Fates Of Fetuses" (transl. from Polish), by Jerzy Kozaczenko, Ginekol. Pol. 46:451-453 (1975)

Accession No./MRID No.: NA/NA

Sponsor/Contracting Lab.: Published article (translation)

Report No./Date: N/A

Test Material: "Dipterex" (commercial; level of purity not stated).

Procedures: Test material was administered to groups of 1-2 day old Leghorn eggs (30/group, by yolk-sac injection, doses of 0, 0.8, 1.6 and 3.2 mg/egg), "hooded" rats (25/group, by daily intramuscular injection at 35 mg/kg, either on days 1-11 of gestation, or on days 12-22), and to "mixed" rabbits (10 females/group, by daily intramuscular injection at 20 mg/kg, during "first half of pregnancy", or "second half of pregnancy", or a third group "during the entire pregnancy"). Control groups of animals received i m injections of the solvent (0.9 NaCl) throughout pregnancy, or were untreated.

Results: All doses of test compound were toxic to chicken embryos (>50% mortality at 18 days incubation) and caused maternal weight loss in both rats and rabbits (no data are given), but apparently no fetal effects (again no data presented). Post-natal pup mortality was stated to occur (up to 100%) in offspring of dams treated throughout gestation (but no data), as well as decreased levels of cholesterol (40% of normal) and ChE (no data).

Conclusions: The only clear statement in this confusing translated study is that all fetal and post-natal effects occurred in the presence of maternal toxicity.

Core Classification: Supplementary Data, due to summary reporting (no detailed data) of single dose levels only.

12/12/83

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