

CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE
MEDICAL TOXICOLOGY BRANCH
SUMMARY OF TOXICOLOGY DATA

TOXAPHENE

SB 950-200, Tolerance # 138

September 30, 1987

I. DATA GAP STATUS

Chronic rat: Data gap, no study on file

Chronic dog: Data gap, no study on file^a

Onco rat: Data gap, inadequate study on file, possible adverse effects

Onco mouse: Data gap, inadequate study on file, possible adverse effects

Repro rat: Data gap, no study on file^a

Terato rat: Data gap, no study on file^a

Terato rabbit: Data gap, no study on file

Gene mutation: Data gap, no study on file

Chromosome: Data gap, no study on file

DNA damage: Data gap, no study on file

Neurotox: Not required at this time

^aNo studies on file at CDFA, however there are references noted in this summary which indicate that such studies exist.

Note, Toxicology one-liners are attached

** indicates acceptable study

Bold face indicates possible adverse effect

File name: SB200TOX.CNA

One-liners prepared by D. Shimer.

No applicable EPA one-liners as of Aug. 25, 1987.

II. TOXICOLOGY SUMMARY

2.

NOTE: As indicated on the title page, there are several old studies referenced in summary reports, which are not on file with CDFA. Some of these are invalid IBT reports, however some of the other studies may have useful information. For example, there are references in 002:24557 and 002:24556 (p. 106) to dog and monkey chronic studies: all were old studies, and one was an invalid IBT study.

If a registrant wishes to update the toxaphene data base, it would be necessary to provide an analysis of the "active ingredients". Different sources may have appreciably different mixtures of active components which vary substantially in (at least) their acute toxicities (see Murphy, S.D., in Casarett and Doull's Toxicology, , Third Ed., New York, 1986, p. 550).

CHRONIC, RAT

No study on file.

CHRONIC, DOG

No study on file.

ONCOGENICITY, RAT

012 018202 "Bioassay of Toxaphene for Possible Carcinogenicity CAS No. 8001-35-2 (Rat, Long Term Oral Dosing)." (National Cancer Institute, 1979). Toxaphene fed to Osborne-Mendel rats in food for 80 weeks. Ten/sex control animals and 50/sex/dose groups. Males were dosed at 556 or 1,112 ppm, TWA, females at 540 or 1,080 ppm, TWA. Dose levels were adjusted during the study. **Possible adverse effects:** thyroid follicular cell tumors (esp. adenomas) in males and females, modest but significant increase in pituitary tumors

(especially chromophobe adenomas) in 1080 ppm females only. **Unacceptable.** No individual data, no description of test compound, only two dose levels, too few concurrent control animals. J. Wong, 5-2-85.

ONCOGENICITY, MOUSE

012 37163 "Bioassay of Toxaphene for Possible Carcinogenicity CAS No. 8001-35-2 (Mouse, Long Term Oral Dosing)." (National Cancer Institute, 1979) Toxaphene fed in diet to B6C3F1 mice for 80 weeks at 99 or 198 ppm, TWA. Ten/sex for controls, 50/sex/dose group. Dose-related increase in mortality for both sexes. **Possible adverse effect:** marked dose-related increase in hepatocellular carcinoma at both doses in both sexes. **Unacceptable.** No individual data, no food consumption data, no stability study, too few animals in control. J. Wong, 5-2-85.

REPRODUCTION, RAT

No study on file. There is reference to a rat reproduction study in Vol. 002 (p.107 of booklet entitled Toxaphene: Use Patterns and Environmental Aspects). This is probably the invalid IBT study #2476.

TERATOLOGY, RAT

No study on file. The 1977 EPA RPAR "PD/1" document cites a 1976 study by Chernoff and Carver (see 138-001: p. 21). Those authors reported "Dose-related reductions also occurred both in the average number of [fetal] sternal ($p < 0.05$) and caudal ($p < 0.001$) ossification centers with increasing toxaphene dosage." These findings were in **rats**. Apparently there was no comparable developmental toxicity in **mice**, as another part of the same study.

TERATOLOGY, RABBIT

No study on file.

GENE MUTATION

No study on file.

CHROMOSOME

No study on file.

DNA DAMAGE

No study on file.

NEUROTOXICITY

Not required at this time.