

CALIFORNIA DEPARTMENT OF FOOD AND AGRICULTURE
MEDICAL TOXICOLOGY BRANCH

SUMMARY OF TOXICOLOGY DATA

HEXYTHIAZOX

SB 950 # (none), Tolerance # 50822

Original date ***

Revised date ***

I. DATA GAP STATUS *** (Many reviewed studies not listed here)

Combined, rat: No data gap, possible adverse effect

Chronic toxicity, rat:

Chronic toxicity, dog:

Oncogenicity, rat:

Oncogenicity, mouse:

Reproduction, rat:

Teratology, rat:

Teratology, rabbit:

Gene mutation:

Chromosome effects:

DNA damage:

Neurotoxicity:

Toxicology one-liners are attached.

In the one liner document/record number headings below,

** indicates an acceptable study.

Bold face indicates a possible adverse effect.

File name:

Revised by Name, Date ***As of 12/8/88, only the combined rat study is included in summary.

Other studies have been evaluated, but are not yet assembled into this tox summary....C.

Aldous

II. TOXICOLOGY ONE-LINERS AND CONCLUSIONS

COMBINED, RAT

**** 010 to 015 039707 to 039712** "Lifetime (24-month) dietary toxicity and oncogenicity study of NA-73 in rats". IRDC Study 449-008, Oct. 1984. NA-73 [Hexythiazox], 99% purity, administered in diet to Fischer 344 rats at 0, 60, 430, and 3000 ppm. Seventy/sex/group were designated for 2-year exposure. **Possible adverse effect:** mammary tumors (fibroadenomas) in males (incidence of 0, 1, 2, and 6 in controls through increasing dose groups: in addition, a sole fibroma was observed in 3000 ppm males). NOEL for non-neoplasia effects = 430 ppm (decreased body weights in M and F, vacuolation of adrenal cortex in M, increased liver weights in M and F). Study **acceptable**. Original review by McGee indicated possible adverse effect due to increased incidence of vacuolation of adrenal cortex in M and F at the upper two dosage levels. Later review by Aldous concluded that adrenal treatment effects were limited to 3000 ppm level males, and did not constitute a "possible adverse effect". Only the latter review concluded that mammary tumors were an apparent treatment effect. D. McGee, 2/27/86, and C. Aldous, 12/8/88.

CHRONIC TOXICITY, RAT

CHRONIC TOXICITY, DOG

ONCOGENICITY, RAT

ONCOGENICITY, MOUSE

REPRODUCTION, RAT

TERATOLOGY, RAT

TERATOLOGY, RABBIT

GENE MUTATION

CHROMOSOME EFFECTS

DNA DAMAGE

NEUROTOXICITY