

10-31-77  
**CASWELL FILE**

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

**DATE:** October 31, 1977

**SUBJECT:** Sergeant's Sentry IV Flea and Tick Collar for Cats (Dogs) - Addendum to Review of 9/10/77 Caswell #586,508 Shaughnessy #034401,047802 EPA File #778-UE (UR)

**FROM:** Toxicology Branch  
Registration Division

**TO:** Franklin Gee  
Product Manager #16

Recommendation

The following additional studies and information are required in order to assess the hazard associated with the proposed use pattern:

- (1) Acute Oral LD<sub>50</sub> - formulation
- (2) Acute Dermal LD<sub>50</sub> - formulation
- (3) Skin Sensitization - each active
- (4) Teratology - Dibrom
- (5) Teratology - Baygon; submission of the following:
  - (a) Clarification of the terminology "bone changes", i.e. what specifically are the bone changes that occurred?
  - (b) Clarification is required why, considering the number of fetuses examined, no anomalies of any kind are noted.
- (6) Subacute Dermal Cat (Dog) Studies; submission of the following.
  - (a) organ weights and organ/body weight ratios
  - (b) histopathology
  - (c) Daily records with respect to animal behavior and dermal irritation

Review

The neurotoxicity study on Dibrom was reviewed by R. Gessert on 5/25/77. The neurotoxicity and teratology studies on Baygon were reviewed by K. Bailey on 10/ /77. The results of the studies and their classification are summarized below:

1. Demyelination Study in Chickens with Dibrom - (Industrial Bio-Test, Report #?, 7/17/62, submitted by Chevron Chemical Co. on 9/20/66, Acc. #090646)

Negative for neurotoxic effects.

Classification: Core-Minimum Data

- 1) A second LD<sub>50</sub> dose was not administered in the acute study; however, a subacute study was provided.

2. Neurotoxic Studies with Active Ingredient Boecker 58 12 3 15 - (Farbenfabriken Bayer A-G Institut für Toxicologie, Report #17974 and 20937, 3/3/66, submitted by Chemagro on 10/8/71, Acc. #111903)

Negative for neurotoxic effects.

Classification: Core-Minimum Data

3. Bay 39007 Examination for Embryo Toxic Effects Among Rats - (Farbenfabriken Bayer A-G Institut für Toxikologie, Report #29035, 1/19/71, submitted by Chemagro on 8/16/72, Acc. #093225)

The study can not be evaluated until the following information is provided, as requested by K. Bailey in review of PP2F1244:

- a) Clarification of the term "bone changes"; and
- b) Clarification is required why, considering the number of fetuses examined, no anomalies of any kind are noted.

*William Greear*

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