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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

SUBJECT: Trifluralin

DATE: 11/10/75

FROM: Robert Coberly  
Biologist, Toxicology Branch

TO: Mr. Mountford

Registration No.: 1471-65

Product Name: Treflan Emulsifiable Conc. (For professional use)

Registrant: Elanco Products Co.

Action Request: Review new toxicity data from acute eye irritation studies.

Recommendation: Place this formulation in category II based on eye irritation.

Formulation: Treflan Emulsifiable Concentrate (for professional use)

Active Ingredient

44.5% Trifluralin (alpha, alpha, alpha-Trifluoro-2,6-dinitro-N,N-dipropyl-para-toluidine)

Inert Ingredients

 INERT INGREDIENT INFORMATION IS NOT INCLUDED

Present Action:

The following toxicity data were reviewed in support of a label change from caution to warning:

Acute Rabbit Eye Irritation (Treflan EC 44.5% formulation) 10/29/75

The material tested was identified as production E.C., lot 1136A (X-27201).

Exactly 0.1 ml of the undiluted test material was instilled into one eye of each of twelve New England albino rabbits.

Ocular reactions were graded at 1, 24, 28 and 72 hours and 7 and 14 days post treatment.

\*Cleared under 40 CFR 180.1001(d).

OEP 11/10/75

Results: Four cases of slight corneal opacity developed within 48 hours of treatment, the other 8 animals were reported as exhibiting corneal dullness. The corneal opacity healed within 7 days. The slight iritis and moderate conjunctival irritation healed within seven days.

This formulation is assigned to category II.

Acute Rabbit Eye Irritation - Tech

10/29/75

The material tested was identified as technical grade trifluralin (lot X-26524). Thirty six mg of dry powder was instilled directly into one eye of each of six rabbits. Ocular reactions were graded at 1, 24, 48 and 72 hours and 7 and 14 days.

Results: Slight conjunctivitis developed that cleared before 7 days.

Acute Dog Eye Irritation (Treflan EC 44.5%)

10/29/75

The material tested was identified as Treflan E.C. (4 lbs/gal).

Exactly 0.1 ml of the undiluted E.C. was instilled into the eyes of three Beagle dogs. Ocular reactions were graded at 1, 24, 48 and 72 hours and 7 and 14 days.

Results: Slight hyperemia of the bulbar conjunctivae was reported during the first 72 hours. Eyes were considered normal at day 7.