80248
MRID No.

112701
Shaughnessy No.

Data Evaluation Record

BRODIFACOUM

Wild Mammal Toxicity Test

GUIDELINE NUMBER: 71-3

CITATION: Ringer, R.K. and Richard J. Aulerich. Date no given, but, *c.* 1979. Determination of oral LD_{50} of Brodifacoum for mink. Submitted by ICI Americas, Inc., Agricultural Products, Wilmington, Delaware 19897. RR 90-292 B.

REASON FOR SUBMISSION:

FIFRA '88 Reregistration.

RESULTS-	Valid _____	Invalid _____	Supplemental X
GUIDELINE-	Satisfied _____	Partially Satisfied _____	Not Satisfied X

DISCUSSION:

No DER was found in EEB's files for this study. The two highest concentrations are too widely separated to be of use. Each successively larger concentration should be 1.66 times that of the one before (or be about 0.6 of the one larger than itself). The sixth group is so much larger (4.7 times) than the fifth that the gap between the two groups made the LD_{50} meaningless. If it had been 3.73 mg/kg (1.66 X 2.24 mg/kg) and the animals had still died, the LD_{50} would drop to 3.73 mg/kg even though the mortality remained the same. We cannot tell the difference between the two possibilities from this study. The "Protocol for determination of oral LD_{50} for Mink" specifies .04, .12, .36, 1.08, and 3.24 mg/kg. If it was believed that a higher range of concentrations was needed, then the entire range should have been increased, not just its highest member.

Some animals had bloody stools even at the 0.116 mg/kg level, therefore, the NOEL = 0.04 mg/kg.

If, as stated, the species presented a difficulty because food passes through their digestive tract to quickly, another subject should be chosen. Although, this may be a trait of the Mustelids generally and, therefore, the high LD_{50} accurately reflects the conditions in the wild.

CONCLUSIONS:

The study is classified as "Supplementary" No LD_{50} but a NOEL 0.04 mg/kg.

REVIEWED BY:

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Date: Jan 9, 1991

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Pages 2 through 3 are not included in this copy.

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_____ Identity of product inert ingredients.

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_____ A draft product label.

_____ The product confidential statement of formula.

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✓ FIFRA registration data.

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