



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

NOV 15 1984

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Sodium Monofluoroacetate (1080)
TOX Chemical #770

TO: William Miller, PM #16
Insecticide Rodenticide Branch/RD (TS-767)

THRU: David L. Ritter, Acting Section Head
Review Section #1
Toxicology Branch/HED (TS-769)

FROM: Ray Landolt
Review Section #1
Toxicology Branch/HED (TS-769)

DSR 11-14-84

11-13-84

11/15/84

Registration No.:

6704-IL
Livestock Protection Collar
USDI Fish and Wildlife Service letter of October 10, 1984.

Action Requested:

Review of proposed modifications in the acute dermal toxicity (§ 81-2) protocol submitted following a telephone conversation of September 7, 1984 with this reviewer and investigator Tietgen of the Denver Wildlife Research Center.

Recommendation:

An approximate dermal LD₅₀ is apparent at the dosage level tested. The use of a few more healthy animals with the existing protocol (§ 81-2) to define the LD₅₀ value is recommended rather than repeat the study with a modified protocol and use twice the number of animals for this dermal toxicity study.

Consideration given to this Recommendation:

It is apparent from the original test sheets submitted with this letter that three animals survived the 24 hour dermal exposure to 1080 and the wash cycle. These three survivors are in addition to the surviving animal for which the test material remained on the skin for nine days and was not subjected to the wash cycle. To change the protocol for testing based on the results of one animal is not recommended, when other alternatives could be used. The wash cycle as described appears adequate for the water soluble test material. The evidence of 1080 particles beneath the cage suggests the material has leaked through the dermal wrap during the 24 hour exposure. Returning the animals to clean sanitized cages after removal of the dermal wrap and wash cycle should be considered. To control the possibility of ingestion of the test material the use of Elizabethan type collars during the 24 hour exposure and/or after the wash cycle is recommended.

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