SIGNATURE:

NALED P" 119 12/22/41 walsu ( 1,2+dipronom2,2-dichloroethy) o HRY ICH EER - PISC Nº TOPIC St 3843 - GOIDELINE 45 CFR 163.72-0 FURTHER DESCRIPTION OF THE PROPERTY OF MOTE THE PARTY OF FIGHE/MASTER IN 00074678 CONTRACT CAT IN Tyler, 8.4.1 Lunz, 4.5.1 Mearton, C.; et al. (1967) Product Perform mance report: # innow to Concentratel. (Unbublished study rechived Jul 31, 1757 under unknown acrin. no.; crepared in cooperation with dear's cluff terine Laboratory, submitted by Chevron Chemical Co., richmond, Calif.; CUL:125646-A) SUBST. CLASS # 3. OTHER SUBJECT RESCRIPTORS 3901 FEH -4 - 51 3547 DIRECT HVW TIME = (YT) START-HATE REVIENED MY: Kyle Brokete UN TITLE: Withlife Bishoul U.G: HAD-BAD LUC/TEL: CM2-1121 /557-1121 SIGNATIONE: Ke M DATE: 2/fg/fz · APPROVED NYS TITLE: ULS: LUC/TEL:

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DATE

#### DATA EVALUATION RECORD

- 1. Chemical: Naled
- 2. Formulation: Dibrom 14
- 3. Citation: Tyler, B.H., R.G. Lunz et. al. 1967. Product performance report: Dibrom 14 concentrate. (Unpubl. study received July 31, 1967 under unknown administration No.; prepared in cooperation with Bear's Bluff Marine Laboratory, submitted by Chevron Chemical Co., Richmond, Calif.; CDL: 128644-A). I.D.# 00074678
- 4. Reviewed by: Kyle Barbehenn, Wildlife Biologist
  Ecological Effects Branch
  Hazard Evaluation Division (TS-769)
- 5. Date Reviewed: September 28, 1982
- 6. Test type: Aquatic Field Study
- 7. Reported Results: Dibrom ULV aerial application and ground fogging in tidal salt marshes was not toxic to shrimp, crabs or killifish.
- 8. Reviewer's Conclusion: Information provided does not permit one to fully evaluate this study. This study does not fulfill any guideline data requirements for naled.

# METHODS/MATERIALS

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## Test Procedures

Penaeus aztecus, P. setiferus, Palaemonetes ugio (shrimp), Test Animals:

killifish (Fundulus heteroclitus), and Blue Crab (Callinectes

sapidus)

Test Location: Bear's Bluff Marine Laboratory, Wadmalaw Island, S.C.

Procedure: Shrimp (sub-adults, post larval and adults), Killifish, and

Blue Crab (juveniles) were treated with DIBROM 14 Concentrate applied ULV by air and by ground fog. Rates for ULV were 1 and 2 fl. oz./A and the fogging rate was 1 ft. oz./gal. diesel oil. Tests were made at high and low tide with test animals kept in the test area for 1 hour after treatment. They were then returned and held in laboratory ponds for observations. All specimens were handled 4 times during the test. Mortalities

were determined by Abbott's Formula.

Application Dates: 3-28-67, 3-29-67, 4-13-67.

Statisical Analysis: None

Discussion/Results: No treatment related mortality was observed. Authors

concluded that DIBROM ULV aerial applications or

ground fogging applictions in tidal salt marsh breeding areas are not toxic to juvenile white shrimp, post

larval brown shrimp, hard back shrimp adults, killifish, or blue crab. Of 228 animals exposed to DIBROM 14 spray,

only 12 (5.37%) were lost, whereas 9 of 89 control

specimens (10%) were lost over the observation period.

### Reviewer's Evaluations:

Method of exposing organisms was not indicated, precluding A. Procedure. further evaluation. Limiting exposure to one hour after treatment reduces the validity of the test.

Statistical Analysis: N/A

C. Discussion/Results: The usefulness of these observations for risk

assessment cannot be determined.

### Conclusions:

Validation Category: Invalid

Category Rationale: Description of test methods is inadequate

Category Repairability: This test could be upgraded to Supplemental if

further details were provided.