8/9/82

(TDR 3R) DATA EVALUATION RECORD PAGE 1 OF

CASE GS0092 NALED PM 110 ~~12/22/81~~

CHEM 034401 Naled (1,2-dibromo-2,2-dichloroethyl d

BRANCH EEB DISC 4 TOPIC 25550027

FORMULATION 00 = ACTIVE INGREDIENT

FICHE/MASTER ID 05000833 CONTENT CAT 01

Sasaki, R.K. (1974) Organophosphorus insecticides and the fertilization and early embryonic development of"Crassostrea" #"virginica"Gmelin: an ultrastructural analysis. Dissertation Abstracts International B 34(10):4840-4841.

SUBST. CLASS = S.

OTHER SUBJECT DESCRIPTORS
SEC: TOX =40-1015027

DIRECT RVW TIME = (MN) START-DATE END DATE

REVIEWED BY: Richard Stevens
TITLE: Biologist
ORG: HED/EEB
LOC/TEL: CM2 1128 557-7625
SIGNATURE: Ann Stavola for Richard Stevens DATE: 8/9/82

APPROVED BY:
TITLE:
ORG:
LOC/TEL:
SIGNATURE: DATE:

034401

DATA EVALUATION RECORD

1. CHEMICAL: Malathion, Parathion, Naled, and Abate

2. FORMULATION: Unknown

3. CITATION: Sasaki, R.K. (1974) Organophosphorus insecticides and the fertilization and early embryonic development of Crassostrea virginica Gmelin: an ultrastructural analysis. Dissertation Abstracts International B 34(10): 4840-4841. ID# 05000833.

4. REVIEWED BY: R.R. Stevens
Biologist, EEB/HED
October 25, 1979

5. TEST TYPE: Estuarine - Embryonic development
A. American Oyster (Crassostrea virginica)

6. REPORTED RESULTS: Treatment of ova with parathion, malathion, or abate prior to insemination has no significant effect on fertilization. Naled had the greatest inhibitory effect on fertilization and early embryonic development.

7. REVIEWER'S CONCLUSIONS: This study as reported is neither scientifically sound nor does it satisfy any guideline requirements (See Reviewer's Evaluation).

SEE ABATE FILE
FOR COMPLETE
DATA EVALUATION
REPORT

DATA EVALUATION RECORD PAGE 1 OF

CLASS 060006 TEMEPHOS

CHEM 059001 PM GR* 06/19/79

Temephos (O,O'-(thiodi-4,1-phenylene)

SEARCH REF DISC 40 ACPIC 25550C27

FORMULATION CC - ACTIVE INGREDIENT

FICHE/MASTER ID 05CC033 CONTENT CAT C1

Sasaki, K.K. (1974) Organophosphorus insecticides and the fertilization and early embryonic development of Crassostrea virginica Gmelin: an ultrastructural analysis. Dissertation Abstracts International B 34(10):4840-4841.

SUBST. CLASS = S.

OTHER SUBJECT DESIGNATIONS
SEC: TOX -40-10150C27

DIRECT RVW TIME = 1 hr. (MH) START-DATE 10/25/79 END DATE 10/26/79

REVIEWED BY: R.R. Stevens
TITLE: Biologist
ORG: EED/HED
TEL:

SIGNATURE: Richard R. Stevens DATE: 10/26/79

APPROVED BY:
TITLE:
ORG:
TEL:

SIGNATURE:

DATE:

DATA EVALUATION RECORD

1. CHEMICAL: Malathion, Parathion, Naled, and Abate

2. FORMULATION: Unknown

3. CITATION: Sasaki, R.K. (1974) Organophosphorus insecticides and the fertilization and early embryonic development of Crassostrea virginica Gmelin: an ultrastructural analysis. Dissertation Abstracts International B 34(10): 4840-4841. ID# 05000833.

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7. REVIEWER'S CONCLUSIONS: This study as reported is neither scientifically sound nor does it satisfy any guideline requirements (See Reviewer's Evaluation).

8. MATERIALS/METHODS

Test Procedures

None reported

Statistical Analysis

None reported

9. REPORTED RESULTS: Treatment of ova with parathion, malathion, or abate prior to insemination has no significant effect on the fertilization process. Fertilization was slightly enhanced with exposure of ova to low concentrations of insecticide. Only at very high concentrations of insecticide was embryonic development inhibited. Of the insecticides tested, naled had the greatest inhibitory effect on fertilization and early embryonic development.

10. REVIEWER'S EVALUATION: The study as reported is only an abstract. Gross data deficiencies preclude evaluation.

Validation Category: Invalid

Category Rationale: This study is grossly insufficient to complete an evaluation. However, the potential exists for this study to be considered acceptable since an acceptable test species was used.

Category Repairability: If supporting data are submitted this study will be evaluated according to requirements of sections 163.70-1 and 163.72-3 of the 1978 Proposed Guidelines and will be upgraded, possibly, accordingly.