

TDMS

DATA EVALUATION RECORD

PAGE 1 of

CASE GS 0014

ENDOSULFAN

PM

72-2

CHEM 079401

BRANCH EEB DISC TOPIC

FORMULATION Technical (what was the % active) ??

FICHE/MASTER ID 05009242

CONTENT CAT

Sanders, H.O. (1969) Toxicity of pesticides to the crustacean, Gammarus lacustris.
Washington, D.C.: U.S. Bureau of Sport Fisheries & Wildlife (U.S. Bureau
of Sport Fisheries & Wildlife technical paper 25).

SUBST. CLASS =

DIRECT REVIEW TIME = 1 hr

(MH) START DATE

8/26

END DATE

8/26

1980(?)

80(?)

REVIEWED BY: John J. Bascietto
TITLE: Wildlife Biologist
ORG: EEB/HED
LOC./TEL: 557-5610

SIGNATURE:

DATE:

APPROVED BY:

TITLE:

ORG:

LOC./TEL:

SIGNATURE:

DATE:

Reviewer's Conclusions:

(See Coumaphos file for complete review)

The study is scientifically sound and with an $LC_{50} = 6.4$ (5.0-8.2) ppb, endosulfan is very highly toxic to adult scuds. The study does not satisfy the guidelines requirement because adults were tested. It is known that immature scuds are more sensitive than adults to toxics.

48-HOUR
96-HOUR $LC_{50} = 5.8$ (4.1-8.1) ppb

John J. Bascietto
not Johnson & Finley
1980

CASE 350018

COUMAPHOS A - (10/16/79)

PM 410 11/16/79

CHEM 030501

O,O-Diethyl O-(3-chloro-4-methyl-2-oxo-2H-1

BRANCH EEB DISC 35 TOPIC 05250047

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 05009242

CONTENT CAT 01

Sanders, H.O. (1969) Toxicity of Pesticides to the
Crustacean "Gammarus lacustris". Washington, D.C.: U.S.
Bureau of Sport Fisheries and Wildlife. (U.S. Bureau of Sport
Fisheries and Wildlife technical paper 25)

SUBST. CLASS = S.

OTHER SUBJECT DESCRIPTORS

PRIN: EEB -40-05054547

SEC: EEB -40-15000047

DIRECT RVW TIME = (MM) START-DATE 2-4-80 END DATE

REVIEWED BY:

TITLE:

ORG:

LOC/TEL:

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APPROVED BY:

TITLE:

ORG:

LOC/TEL:

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DATE:

SEE COUMAPHOS
FOR COMPLETE REVIEW

BA007913

Table 3.--Estimated LC₅₀ values and confidence limits (p=.05) for several technical grade organophosphate insecticides to the scud, *Gammarus locustris*, in bioassays conducted at 70°F.

Insecticide	P.P.DDT reference at 24-Hrs.	LC ₅₀ micrograms per liter		
		24-Hr.	48-Hr.	96-Hr.
Coumaphos (R) (Co-Ra)	4.7	0.32 (0.18 - 0.58)	0.14 (0.082 - 0.24)	0.074 (0.059 - 0.092)
Cuthion (R)	6.1	0.56 (0.39 - 0.81)	0.27 (0.19 - 0.35)	0.15 (0.11 - 0.20)
Dursban (R)	4.7	0.78 (0.47 - 1.2)	0.40 (0.32 - 0.49)	0.11 (0.071 - 0.17)
Dichlorvos (DDVP)	4.5	2.0 (1.5 - 2.7)	1.0 (0.66 - 1.5)	0.50 (0.37 - 0.68)
Malathion	4.9	3.8 (3.5 - 4.1)	1.8 (1.3 - 2.4)	1.0 (0.55 - 1.5)
Ethion	6.1	5.6 (3.9 - 8.1)	3.2 (2.5 - 4.5)	1.8 (1.3 - 2.4)
Phosphamidon	4.7	8.4 (6.7 - 11)	3.8 (2.3 - 6.7)	2.8 (1.8 - 4.9)
Endosulfan (R) (Thiodan)	4.2	9.2 (6.8 - 12)	5.4 (3.0 - 8.2)	5.4 (4.1 - 8.1)
Parathion	4.7	12 (7.8 - 18)	6.0 (2.7 - 9.7)	3.5 (2.6 - 4.8)
Fenthion	5.2	15 (12 - 20)	11 (8.0 - 15)	8.4 (5.0 - 12)
Phorate	5.7	24 (15 - 38)	14 (9.0 - 21)	9.0 (5.1 - 15)
Thiomet (R) Shell 4072	5.4	27 (19 - 38)	15 (10 - 16)	9.8 (8.6 - 11)
Carbophen- thion (R) (Trithion)	5.7	45 (30 - 62)	28 (20 - 36)	5.2 (4.1 - 6.5)
Ciodrin	5.7	49 (36 - 67)	29 (21 - 41)	15 (14 - 20)
Methyl Carbo- phenothion	5.7	50 (35 - 75)	32 (22 - 46)	11 (8.0 - 15)
TEPP	5.2	74 (57 - 96)	52 (30 - 90)	39 (27 - 56)