

US EPA ARCHIVE DOCUMENT

TDMS  
CASE GS 0014

DATA EVALUATION RECORD  
ENDOSULFAN

PAGE 1 of  
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:

48-HOUR  
96-HOUR LC50 = 5.8 (4.1-8.1) ppb

Reviewer's Conclusions:

(See Coumaphos file for complete review)

The study is scientifically sound and with an LC<sub>50</sub> = 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.

John J. Bascietto  
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

PRIM: EEB -40-05054547

SEC: EEB -40-15000047

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

REVIEWED BY:  
TITLE:  
ORG:  
LOC/TEL:

SIGNATURE:

DATE:

APPROVED BY:  
TITLE:  
ORG:  
LOC/TEL:

SEE COUMAPHOS  
FOR COMPLETE REVIEW

SIGNATURE:

DATE:

BA007913

Table 3.--Estimated LC<sub>50</sub> values and confidence limits (p=.05) for several technical grade organo-phosphate insecticides to the scud, *Gammarus locustris*, in bioassays conducted at 70 F.

Insecticide	LC <sub>50</sub> micrograms per liter		
	P.P.D.T. reference at 24-Hrs.	24-Hr.	48-Hr.
Coumaphos (R)	4.7	0.32 ( 0.18 - 0.58 )	0.14 ( 0.082 - 0.24 )
(Co-Ra)			0.374 ( 0.059 - 0.052 )
Cuthion (R)	6.1	0.56 ( 0.39 - 0.81 )	0.77 ( 0.19 - 0.35 )
Dursban (R)	4.7	0.78 ( 0.47 - 1.2 )	0.40 ( 0.32 - 0.49 )
Dichlorvos (DVT)	4.5	2.0 ( 1.5 - 2.7 )	1.0 ( 0.66 - 1.5 )
Malathion	4.9	3.8 ( 3.5 - 4.1 )	1.8 ( 1.3 - 2.4 )
Ethion	6.1	5.6 ( 3.9 - 8.1 )	3.2 ( 2.3 - 4.5 )
Phosphamidon	4.7	8.4 ( 6.7 - 11 )	3.8 ( 2.2 - 6.7 )
Endosulfan (R)	4.2	9.2 ( 6.8 - 12 )	5.4 ( 3.0 - 8.2 )
(Thion)			1.0 ( 0.55 - 1.5 )
Parathion	4.7	12 ( 7.8 - 18 )	6.0 ( 2.7 - 9.7 )
Fenthion	5.2	15 ( 12 - 20 )	11 ( 8.0 - 15 )
Phorate	5.7	24 ( 15 - 38 )	14 ( 9.0 - 21 )
(Thiost)			9.0 ( 5.1 - 15 )
Shell 4072	5.4	27 ( 19 - 38 )	15 ( 10 - 16 )
Carbophen-			9.8 ( 8.6 - 11 )
thion (R)	5.7	45 ( 30 - 62 )	28 ( 20 - 36 )
(Trithion)			5.2 ( 4.1 - 6.5 )
Ciodrin	5.7	49 ( 36 - 67 )	29 ( 21 - 41 )
Methyl Carbo-			15 ( 14 - 20 )
phenothion	5.7	50 ( 35 - 75 )	32 ( 22 - 46 )
TEPP	5.2	74 ( 57 - 96 )	52 ( 30 - 90 )
			11 ( 8.0 - 15 )
			39 ( 27 - 56 )

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