9-26-80

TDMS0030 D

DATA EVALUATION RECORD

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CASE GS0014

ENDOSULFAN

PM 110 -08/20/80

CHEM 079401

Endosulfan (Hexachlorohexahydromethano)

BRANCH EEB

DISC 40 TOPIC 05054543

FORMULATION 00 - ACTIVE INGREDIENT

FICHE/MASTER ID 05021060

CONTENT CAT 01

Knauf, W.; Schulze, E.F. (1973) New Findings on the Toxicity of Endosulfan and Its Metabolites to Aquatic Organisms. Mededelingen Van de Faculteit Landbouwwetenschappen, Rijksuniversiteit Gent. [Communications of the Faculty of Agricultural Sciences, State University of Ghent.] 38(3):717-732.

SUBST. CLASS = S.

OTHER SUBJECT DESCRIPTORS SEC: EEB -40-05054547

DIRECT RVW TIME = 2 Hrs. (MH) S

START-DATE 9/26/80

END DATE

9/26/80

REVIEWED BY: Rol

Robert K. Hitch

TITLE: Fish and Wildlife Biologist

ORG: EEB

LOC/TEL:

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SIGNATURE:

Robert D. Helek

DATE:

4/26/80

APPROVED BY:

TITLE:

ORG:

LOC/TEL:

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DATE:

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CONCLUSIONS: The fish tests were aerated and should be considered invalid.

The $\underline{\text{Daphnia}}$ test is the only other test that might have been considered core, but it was conducted at 21 °C, which is 4 °C warmer than the recommended.

METHODS AND MATERIALS:

Test Type - 48 hrs. static tests with aquatic invertebrates and fish.

REPORTED RESULTS:

- Fish 10-litre aquaria, continuously aerated at a rate of 1.5 2 litres/hour; pH = 7,2 7,6; water hardness: 16 18 DH (determined in accordance with German standard methods). The salt water trials were carried out with golden orfe (Idus melanotus) which had been adapted for two weeks to this environment.
- Snails 500 ml glass bakers according to the method recommended by the WHO (1970).
- Larvae of Aedes aegypti, Daphnia magna 100 ml conical flasks; at least 30 animals per concentration.
 The test medium was a 1: 1 mixture of culture water and deionized water.
- Artemia salina, Tubifex tubifex, Chironomus thummi larvae petri dishes with 30 ml solution; for the trials with Tubifex tubifex 200 mg animals (wet weight); for the trials with Artemia 10 adult specimens per concentration in 3% salt water; of Chironomus 10 larvae per pertri dish.

 The trials with these organisms were conducted in the dark.



File No. 05021060 (AC0099)

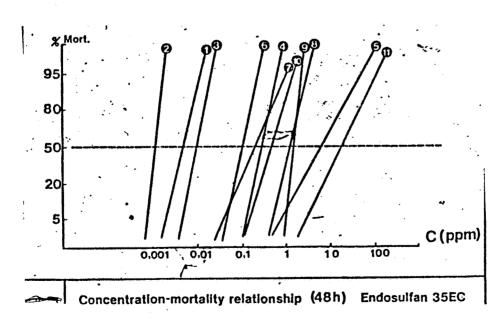
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Legend for Figure 1

Pisces	Crustacea	Insecta	Mollusca	Oligochaeta
 Idus melanotus Lebistes reticu- 	4. Daphnia magna5. Artemia salina	6. Aedes aegypti7. Chironomus thummi	8. Planorbis corneus9. Limnea stagnalis	11. Tubifex tubifex
latus 3. Carassius auratus			10. Physa fontinalis	

Algae : Chlorella vulgaris

TEST-ORGANISMS ENDOSULFAN AND METABOLITES



DISCUSSION: N/A.