

079401  
SHAUGHNESSE NO.

EEB # 8  
REVIEW NO.

EEB BRANCH REVIEW

DATE: IN 1-10-84 OUT 2-27-84

FILE OR REG. NO. 8340-13

PETITION OR EXP. PERMIT NO.

DATE OF SUBMISSION 12-23-84

DATE RECIEVED B HED 1-6-84

RD REQUESTED COMPLETION DATE 3-6-84

EEB ESTIMATED COMPLETION DATE 3-6-84

RD ACTION CODE/T E OF REVIEW 660/Reg. Std.

T E PRODUCT(S): I, D, H, F, N, R, S Insecticide

DATA ACCESSION NO (S). 252043

PRODUCT MANAGER NO. G. LaRocca (15)

PRODUCT NAME(S) Thiodan

COMPAN NAME American Hoescht Corporation

SUBMISSION PURPOSE Submission of data plus extension

request on certain studies

SHAUGHNESSE NO. CHEMICAL, & FORMULATION % A.I.

079401 Endosulfan (Tech)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

29 FEB 1984

MEMORANDUM

OFFICE OF  
PESTICIDES AND TOXIC SUBSTANCES

TO: George LaRocca, PM 15  
Registration Division, TS-767c

THRU: Dave Coppage, Head Sec. 3 *VCID*  
Ecological Effects Branch  
Hazard Evaluation Division, TS-769c

THRU: Clayton Bushong, Chief *CB*  
Ecological Effects Branch  
Hazard Evaluation Division, TS-769c

SUBJECT: EEB Review of Endosulfan (Reg No. 8340-13)  
Data submitted in response to Registration  
Standard data requests. Accession No. 252043.

EEB received and reviewed three (3) data submissions under Reg. NO. 8340-13. These data were submitted in response to the Agency's Registration Standard for Endosulfan. We make the following conclusions regarding acceptability of the studies:

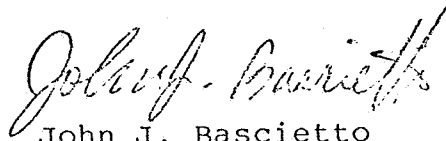
*AN* Roberts, N.L. and C.N. Phillips. 1983. *NRID 137189*  
- Acute toxicity to Bobwhite quail. The study is scientifically sound. The guidelines requirement is satisfied. Technical endosulfan is "highly toxic" to Bobwhite quail; LD<sub>50</sub> = 42 (25-56) mg/kg, single oral dose. *35*

*J* Roberts, N.L. and C.N. Phillips. 1983 *NRID 136998*  
- Acute toxicity to mallard duck. The study is scientifically sound. The guidelines requirement is satisfied. Technical endosulfan is "highly toxic" to mallard duck; LD<sub>50</sub> = 28 (22-36) mg/kg, single oral dose.

Fischer, R. 1983.  
- Acute toxicity to Rainbow Trout. The study is scientifically sound. The guidelines requirement is satisfied, but the author's conclusions are not accepted. The 96-Hr. LC<sub>50</sub> for Rainbow Trout is recalculated by EEB to 0.83 (0.54-1.18) ug/L. Technical endosulfan is "very highly toxic" to Rainbow Trout.

Regarding the registrant's request for an extension of the deadlines for submitting the avian reproduction studies, since the deadline of Nov., 1983 is well past, there is little point in EER commenting on this request.

The avian reproduction study protocols submitted appear adequate to perform a guidelines study.



John J. Bascietto  
Wildlife Biologist, Sec. 3  
Ecological Effects Branch  
Hazard Evaluation Division, TS-769c