

SHAUGHNESSY NO.

REVIEW NO.

EEB REVIEW

JUN 25 1986

DATE: IN 02/11/86 OUT

FILE OR REG. NO. 201-401

PETITION OR EXP. PERMIT NO.

DATE OF SUBMISSION 01/22/86

DATE RECEIVED BY HED 02/04/86

RD REQUESTED COMPLETION DATE 04/23/86

EEB ESTIMATED COMPLETION DATE 04/16/86

RD ACTION CODE/TYPE OF REVIEW 194

TYPE PRODUCT(S): I, D, H, F, N, R, S Synthetic Pyrethroid

DATA ACCESSION NO(S). 261018

PRODUCT MANAGER NO. G. LaRocca (15)

PRODUCT NAME(S) Fenvalerate (Pydrin)

COMPANY NAME Shell Oil Company

SUBMISSION PURPOSE Registrant response to DCI Notice
for fenvalerate

SHAUGHNESSY NO.

CHEMICAL & FORMULATION

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

25 JUN 1986

OFFICE OF
PESTICIDES AND TOXIC SUBSTANCES

MEMORANDUM

SUBJECT: Submission of Studies in Response to Data Call-In Notice

FROM: Michael Rexrode *Michael Rexrode*
Fishery Biologist
Ecological Effects Branch
Hazard Evaluation Division (TS-769C)

THRU: Michael Slimak, Chief *Michael Slimak*
Ecological Effects Branch
Hazard Evaluation Division (TS-769C)

THRU: Norman Cook, Head, Section 2 *Norman Cook*
Ecological Effects Branch
Hazard Evaluation Division (TS-769C)

TO: George LaRocca, PM 15
Insecticide-Rodenticide Branch
Registration Division (TS-767C)

The Ecological Effects Branch (EEB) has reviewed the aquatic studies on Pydrin SD 43775 and ASANA MO70616. All reports were found to be scientifically sound and will support registration with the exception of the Daphnia life cycle study completed in 1978 to 1979. The major concern with this chronic invertebrate study was the control fecundity and the dilution water problems. A new freshwater invertebrate life-cycle test must be submitted in order to fulfill the Data Call-In Notice for Fenvalerate.

The data presented with this submission for EEB's evaluation are as follows:

<u>Species</u>	<u>Formulation</u>	<u>Results</u>	<u>Category</u>
<u>Daphnia magna</u>	SD 43775 tech.	LC ₅₀ = 1.09 ppb	Core
<u>Daphnia magna</u>	SD 43775 formul.	LC ₅₀ = 1.61 ppb	Supplemental

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<u>Species</u>	<u>Formulation</u>	<u>Results</u>	<u>Category</u>
<u>Daphnia magna</u>	SD 43775 tech.	No effect on reproduction at < 0.5 ppb.	Invalid
Bluegill	SD 43775 tech.	LC ₅₀ = .70 ppb	Core
Bluegill	MO 70616 tech.	LC ₅₀ = .26 ppb	Core

Refer to the attached individual reviews for specific details.

In summary, the registrant is reminded that the following data, as requested in the October 25, 1985, Data Call-In Notice for Fenvalerate are still required:

1. Freshwater invertebrate life cycle test (72-4);
2. Estuarine invertebrate life cycle test (72-4); and
3. Simulated and/or actual aquatic field study (72-7).

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