

US EPA ARCHIVE DOCUMENT

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EEE BRANCH REVIEW

DATE: IN 9/23/75 OUT 10/20/75 IN _____ OUT _____
FISH & WILDLIFE ENVIRONMENTAL CHEMISTRY EFFICACY

FILE OR REG. NO. 4816-178

PETITION OR EXP. PERMIT NO. _____

DATE DIV. RECEIVED September 19, 1975

DATE OF SUBMISSION September 12, 1975

DATE SUBMISSION ACCEPTED _____

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

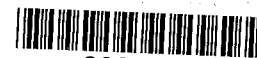
PRODUCT MGR. NO. 17 (Harrison)

PRODUCT NAME(S) Pyrenone O.T. 75-7.5

COMPANY NAME FMC

SUBMISSION PURPOSE Data

CHEMICAL & FORMULATION	<u>069001</u>	<u>7.5%</u>	<u>Pyrethrins</u>
	<u>063503</u>	<u>7.5%</u>	<u>PETROLEUM DISTILLATES, OILS, SOLVENTS</u>
	<u>067501</u>	<u>75.0%</u>	<u>PIPERONYL BHTOXIDE</u>



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103.0 Toxicological Properties

103.1 Birds - 8 day dietary study using Pyrenone O.T. 75-7.5 mallard duck LC₅₀ >10,000 ppm (no mortality)

103.2 Fish - 96 hour static study using Pyrene O.T. 75-7.5

Fish	LC ₅₀ (95% C.I.)(ppm)			No discernable effect
	24 hours	48 hours	96 hours	
Bluegill	0.055 (0.040-0.075)	0.036 (0.029-0.044)	0.034 (0.027-0.042)	0.016
Rainbow Trout	0.054 (0.040-0.074)	0.035 (0.028-0.045)	0.030 (0.023-0.039)	0.010

103.3 Aquatic Invertebrates - 96 hour static study using Pyrenone O.T. 75-7.5

Pink Shrimp (*Penaeus duorarum*) LC₅₀ = 5.5 ppb (1.4-22.0)

Fiddler Crab (*Uca pugilator*) LC₅₀ = 127 ppb (55.5-291 ppb)

106.0 Conclusions

The mallard feeding study and the bluegill, rainbow trout, pink shrimp and fiddler crab 96 hour studies have been received and are acceptable. They are being added to the Pyrenone O.T. 75-7.5 file.

Jack P. Edmundson, Jr.
Environmental Safety Section
EEE Branch

October 20, 1975
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