

US EPA ARCHIVE DOCUMENT

9-12-94



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

SEP 12 1994

MEMORANDUM

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Subject: Endothall Technical Fish Early Life-stage Study and Eastern Oyster 96-Hour Shell Deposition Study

From: *AM* Anthony F. Maciorowski, Chief Ecological Effects Branch Environmental Fate and Effects Division (7507C) *Joseph J. Urban 9/9/94*

To: Ernestine Dobbins, PM Team 52 Reviewer Special Review and Reregistration Division (7508C)

The following lists by DP Barcode, 2 actions and their respective Data Evaluation Records (DER's) Conclusions (see attached complete DERs).

|    | DP Barcode         | Case No. | S#                   |
|----|--------------------|----------|----------------------|
| 1. | D194698<br>72-3(b) | 818815   | S#38901<br>428952-01 |

CONCLUSION

This study fulfills the guideline requirements for an acute toxicity test using the Eastern oyster. Under the conditions of the test, the 96-hour EC<sub>50</sub> was 43 (39.6-47.8) mg a.i./L which classifies endothall technical as slightly toxic to Eastern oysters.

|    | DP Barcode | Case No. | S#                           |
|----|------------|----------|------------------------------|
| 2. | D205890    | 818815   | S#38901<br>72-4(a) 432954-01 |

CONCLUSION: This study is fulfills the guideline requirements for an early life-stage study with freshwater fish. Two parameters were affected: total length and wet weight. Both were reduced at the measured concentration of 2.6 mg a.i./L. Hence, the NOEL is 1.3 mg a.i./L and the LOEL is 2.6 mg a.i./L. This would place endothall in the moderately toxic



Recycled/Recyclable  
Printed with Soy/Canola Ink on paper that  
contains at least 50% recycled fiber

category.

Based on these two DERs, the requirements for endothall technical 96 hour  $EC_{50}$  for eastern oysters (72-3(b)) and freshwater early life-stage study (72-4(a)) have been fulfilled.

Please contact Dennis J. McLane (305-5096) if you have any further questions.