

9-23-96

DP Barcode : D212646  
PC Code No : 128101  
EEB Out :

SEP 23 1996

To: Walter Francis  
Product Manager 31  
Registration Division (7505C)

From: Anthony F. Maciorowski, Chief  
Ecological Effects Branch/EFED (7507C)

Attached, please find the EEB review of...

Reg./File # : 000707-EEU  
Chemical Name : Dichloro-2-n-octyl-3(2H)-isothiazolone  
Type Product : Antifoulant/Microbiocide  
Product Names : Antifoulant C-9211M; RH-287; Kathon 287T  
Company Name : Rohm and Haas Company  
Purpose : Proposed registration of industrial aquatic  
outdoor use patterns for Kathon 287T. Request  
by RD to determine if adequate database exists to support uses.  
Action Code : 176 Date Due : 07/01/95  
Scientist : C. Laird Date In : 03/06/95

EEB Guideline/MRID Summary Table: The review in this package contains an evaluation of the following:

| GDLN NO | MRID NO | CAT | GDLN NO | MRID NO | CAT | GDLN NO  | MRID NO | CAT |
|---------|---------|-----|---------|---------|-----|----------|---------|-----|
| 71-1(A) |         |     | 72-2(A) |         |     | 72-7(A)  |         |     |
| 71-1(B) |         |     | 72-2(B) |         |     | 72-7(B)  |         |     |
| 71-2(A) |         |     | 72-3(A) |         |     | 122-1(A) |         |     |
| 71-2(B) |         |     | 72-3(B) |         |     | 122-1(B) |         |     |
|         |         |     | 72-3(C) |         |     | 122-2    |         |     |
| 71-4(A) |         |     | 72-3(D) |         |     | 123-1(A) |         |     |
| 71-4(B) |         |     | 72-3(E) |         |     | 123-1(B) |         |     |
| 71-5(A) |         |     | 72-3(F) |         |     | 123-2    |         |     |
| 71-5(B) |         |     | 72-4(A) |         |     | 124-1    |         |     |
| 72-1(A) |         |     | 72-4(B) |         |     | 124-2    |         |     |
| 72-1(B) |         |     | 72-5    |         |     | 141-1    |         |     |
| 72-1(C) |         |     | 72-6    |         |     | 141-2    |         |     |
| 72-1(D) |         |     |         |         |     | 141-5    |         |     |

Y=Acceptable (Study satisfied Guideline)/Concur  
P=Partial (Study partially fulfilled Guideline but additional information is needed)  
S=Supplemental (Study provided useful information but Guideline was not satisfied)  
N=Unacceptable (Study was rejected)/Nonconcur



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

MEMORANDUM

SEP 23 1996

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

SUBJECT: Proposed Registration of Aquatic Outdoor Use Patterns for  
Kathon 287T, 707-EEU, Barcode D212646

FROM: *Daniel D. Rieder* 9-23-96  
Daniel D. Rieder, Acting Chief  
Ecological Effects Branch  
Environmental Fate and Effects Division (7507C)

TO: Walter Francis, Product Manager 31  
Anti-Microbial Program Branch  
Registration Division (7505C)

At the request of the Registration Division (RD), the Ecological Effects Branch (EEB) has reviewed the available ecotoxicity database for Kathon 287T (RH-5287, RH-287) to determine if adequate data are available to support the proposed registration of new aquatic nonfood industrial use patterns. These uses are: industrial recirculating water cooling towers, industrial recirculating closed loop water cooling systems, and pulp and papermills.

Data Requirements

Industrial recirculating water cooling towers and industrial recirculating closed loop water cooling systems:

To support these uses the following data are required using technical grade active ingredient (TGAI).

- 71-1(a): Avian acute oral LD<sub>50</sub> with bobwhite quail (preferred) or mallard duck;
- 71-2(a): Avian dietary LC<sub>50</sub> with bobwhite quail (preferred) or mallard duck;
- 72-1(c): Fish acute LC<sub>50</sub> with rainbow trout (preferred) or bluegill sunfish; and
- 72-2(a): Aquatic invertebrate EC<sub>50</sub> using Daphnia magna.

## Pulp and Papermills

To support this use the following data are required using TGAI:

The four acute studies outlined above (71-1(a), 71-2(a), 72-1(c), and 72-2(a)) and:

- 72-3(a): Acute LC<sub>50</sub> with an estuarine/marine fish;
- 72-3(b): Acute LC<sub>50</sub>/EC<sub>50</sub> with an estuarine/marine mollusc; and
- 72-3(c): Acute LC<sub>50</sub> with an estuarine/marine shrimp.

## Status of Existing Database

The existing ecotoxicity database includes the studies required above. Therefore, adequate data are available to support the proposed new aquatic nonfood industrial use patterns. No further data are required at this time.

## Marine Antifoulant Paint Use Pattern

Relative to the marine antifoulant paint use pattern, we reiterate that further data may be required depending on the results of the "leaching-from-the-matrix" studies. Such additional data requirements could include chronic aquatic studies (e.g., mysid shrimp) and/or aquatic plant studies.

If you have questions on the above, please contact Curtis Laird (305-5636) or Norm Cook (305-5322) of my staff.