

US EPA ARCHIVE DOCUMENT

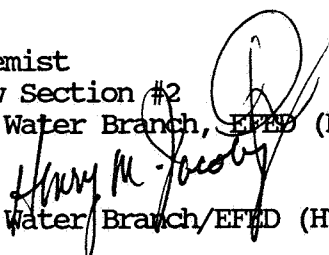
Shaughnessy No: 128201

Date Out of EFGWB: JUL 5 1990

TO: John Lee
Product Manager #31
Registration Division (H7505C)

FROM: Emil Regelman, Supervisory Chemist
Environmental Chemistry Review Section #2
Environmental Fate and Ground Water Branch, EFED (H7507C)

THRU: Henry M. Jacoby, Chief
Environmental Fate and Ground Water Branch/EFED (H7507C)



Attached, please find the EFGWB review of:

Reg./File #: 707-RTL

Common Name: None at the present time (Company Code "RH-5287")

Chemical Name: 4,5-Dichlororo-2-octyl-isothiazole

Type product: Marine Antifoulant

Product Name: Antifoulant C-9211M

Company Name: Rohm & Haas

Purpose: Review cover letter and comment Submission 265912

Date Received: 3/28/90 EFGWB #: 90-0578

Action Code: 116 Total Reviewing Time (decimal days): 0.2

Deferrals to: _____ Ecological Effects Branch, EFED
_____ Science Integration & Policy Staff, EFED
_____ Non-Dietary Exposure Branch, HED
_____ Dietary Exposure Branch, HED
_____ Toxicology Branch I, HED
_____ Toxicology Branch II, HED

1. CHEMICAL:

Common name: Not assigned at the present time
(Company Code RH-5287)

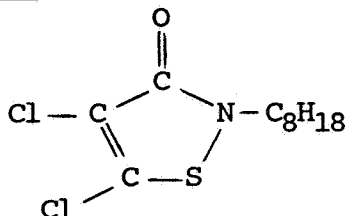
Chemical name: 4,5-Dichloro-2-n-octyl-3(2H)-isothiazolone

"4,5-Dichloro-2-octyl-isothiazole" (as appears at EPA)

Chemical Abstracts Registry #: 64359-81-5

Trade name: Antifoulant "C-9211M"

Chemical structure:



Formulation: 30-31% active ingredient (RH-5287)
70% inert ingredient

Physical/Chemical properties (technical product):

Appearance: tan-brown waxy solid
Melting point: 40-41 C
pH: not applicable
Specific gravity: 1.28 (at 25 C)
Solubility: 14 ppm (in water, 25 C)
Vapor pressure: 4.5×10^{16} Torr
Octanol/water
Partition Coefficient: $\log P = 6.4$

2. STUDY/ACTION TYPE:

Review cover letter concerning data related to fish bioaccumulation study previously reviewed.

3. STUDY IDENTIFICATION:

- Letter of Wendy Bingaman, Regulatory Manager, Rohm & Haas dated 3/28/90.
Copy attached.

4. REVIEWED BY:

Silvia C. Termes, Chemist
Review Section #2
OPP/EFED/EFGB

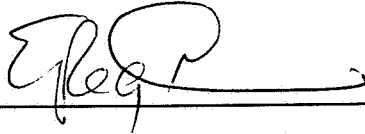
Signature: 

Date: July 2nd, 1990

5. APPROVED BY:

Emil Regelman
Supervisory Chemist
Review Section #2
OPP/EFED/EFGWB

Signature: _____



Date: _____

JUL 5 1990

6. CONCLUSIONS:

The registrant has clarified that the data on water quality requested by EFGWB on 8/28/89 were tabulated on page 26 of the "Uptake, Depuration and Bioconcentration of ¹⁴C-RH-5287 by Bluegill Sunfish (*Lepomis macrochirus*)" (Accession Number 265912) reviewed by EFGWB on 12/3/87. Copy of this table is being attached to this review and to the 12/3/87 and 8/28/89 reviews. The information contained in the table is acceptable and provides information on the pH, dissolved oxygen content and temperature during the uptake and depuration phases.

The registrant is currently conducting studies aimed to identify metabolic products of RH-5287 in edible and nonedible fish tissue.

7. RECOMMENDATIONS:

The registrant is to be informed that the data on water quality are been added to the 3/7/87 and 8/28/89 reviews. The data is acceptable.

Data requirements for bioaccumulation in fish studies (165-4) are not fulfilled at the present time because metabolite identification has not been completed.

8. BACKGROUND:

a. Introduction

The uptake and depuration phase was reviewed by EFGWB on 12/3/87 together unsatisfactory attempts to characterize metabolic products. On 11/21/88, another study on metabolite characterization was reviewed (MRID #40741304), but characterization was considered incomplete. The registrant is presently conducting further studies aimed to characterize these metabolites.

Additional information on radiopurity and water quality during the uptake and depuration phases was requested on 12/3/87. The data was submitted in 3/89 and reviewed on 8/28/89. At the time of 8/28/89, it was noted that the data on water quality were not submitted. The missing data were requested on 8/28/89 and the registrant was informed about it by the Registration Division on 2/23/90. This review acknowledges the receipt of the requested information.

b. Directions for use

C-9211M (active ingredient RH-5287) is an algicide/barnicide developed by Rohm & Haas for use in antifoulant marine coatings (aquatic nonfood uses). It is intended for distribution to the largest industrial formulators/painters involved in the painting of large military and commercial ships. It should not be available to private boat owners or small commercial establishments. The active ingredient RH-5287 (4,5-dichloro-2-octyl-isothiazole) is formulated (30-31%) active ingredient [REDACTED] which will be then formulated into paint by the purchaser.

9. DISCUSSION OF INDIVIDUAL STUDIES: No studies were submitted.
10. COMPLETION OF ONE-LINER: No-liner has been completed.
11. CBI APPENDIX: No CBI.

Page 5 is not included in this copy.

Pages _____ through _____ are not included.

The material not included contains the following type of information:

- Identity of product inert ingredients.
 - Identity of product impurities.
 - Description of the product manufacturing process.
 - Description of quality control procedures.
 - Identity of the source of product ingredients.
 - Sales or other commercial/financial information.
 - A draft product label.
 - The product confidential statement of formula.
 - Information about a pending registration action.
 - FIFRA registration data.
 - The document is a duplicate of page(s) _____.
 - The document is not responsive to the request.
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The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.
