

US EPA ARCHIVE DOCUMENT

4/27/93

DP Barcode : D178296  
PC Code No. : 99901  
EFGWB Out :

TO: Barbara Briscoe  
Product Manager PM 51  
Special Review and Reregistration Division (H7508W)

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

4/27/93

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

Henry Jacoby 4/30/93

Attached, please find the EFGWB review of...

Reg./File # : 099901-000707

Common Name : Octhilinone

Product Name : Kathon; Skane

Company Name : Rohm and Haas Company

Purpose : Review of a hydrolysis study

Type Product : Mildewcide Action Code: 627 EFGWB #(s): 92-0925 Review Time: 1 day

EFGWB Guideline/MRID/Status Summary Table: The review in this package contains...

161-1	MRID 42306401	Y	162-4	164-4	166-1
161-2			163-1	164-5	166-2
161-3			163-2	165-1	166-3
161-4			163-3	165-2	167-1
162-1			164-1	165-3	167-2
162-2			164-2	165-4	201-1
162-3			164-3	165-5	202-1

1. CHEMICAL:

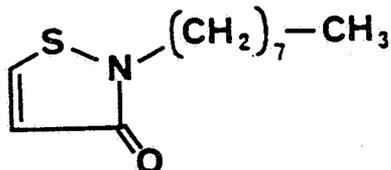
Common name: Octhilinone

Chemical name: 2-n-Octyl-4-isothiazolin-3-one

CAS No.: 26530-20-1

Trade Name(s): Kathon; Skane

Chemical Structure:



Formulations: Not available

Physical/Chemical Properties of Active Ingredient:

Molecular Formula: C<sub>11</sub>H<sub>19</sub>NOS  
Molecular Weight: 213  
Solubility: 462 ppm in water  
Vapor Pressure: 3.7E-5 torr

2. TEST MATERIAL:

Study 1: Active ingredient.

3. STUDY/ACTION TYPE:

Review of a hydrolysis study.

4. STUDY IDENTIFICATION:

Estigoy, L., and K. Shepler. 1992. Hydrolysis of [<sup>14</sup>C]-RH-893 at pH 5, 7 and 9. PTRL Report No. 227W-1. PTRL Project No. 227W. Rohm and Haas Technical Report No. 34-92-09. Unpublished study performed by Pharmacology and Toxicology Research Laboratory-West, Richmond, CA, and submitted by Rohm and Haas Chemical Company, Spring House, PA. (MRID 42306401)

5. REVIEWED BY:

Larry Liu, Ph.D.  
Environmental Scientist  
Chemistry Section #2  
EFGWB/EFED/OPP

Signature: Larry Liu  
Date: 4-14-93

6. APPROVED BY:

Emil Regelman  
Section Chief  
Chemistry Section #2  
EFGWB/EFED/OPP

Signature: Emil Regelman  
Date: 4/27/93

7. CONCLUSIONS:

Since the discharge of the effluents containing octhiline is regulated under NPDES, according to the current EFGWB policy, the registrant only needs to support the Hydrolysis (161-1) data requirement. Therefore, the Environmental fate data requirements recommended by EFGWB on 2/28/92 are no longer applicable. According to the letter of 11/2/92 from SRRD to Rohm and Haas Company, a hydrolysis study is required to support the Environmental Fate data requirement.

The submitted study for octhiline (MRID 42306401) is acceptable and can be used to support the Hydrolysis (161-1) data requirement. In this study, octhiline was found to be very stable in sterile aqueous buffer solutions (pH 5, 7, and 9) that were incubated in the dark at 24°C.

8. RECOMMENDATIONS:

The Environmental Fate data requirement for octhiline has been satisfied. No additional information on the environmental fate of octhiline is required at this time.

9. BACKGROUND:

According to the letter of 9/18/91 from Wendy W. Bingaman of Rohm and Haas Company to Frank Rubis of SRRD/OPP in response to the Reregistration Phase IV Data Call-In Notice, the registrant is only supporting two use sites: Aquatic Non-Food Industrial and Indoor Non-Food. The use of octhiline as cotton seed protestant (Reg. No. 707-127) under Terrestrial Food+Feed use group was canceled in April 1990.

Octhiline is currently used as an industrial mildewcide/fungicide (paints, coatings, wall paper pastes, caulks, sealants, aqueous emulsions, adhesives, polymer compounds, fabric, and leather processing). It is also used

as an industrial microbicide in recirculating cooling towers and air washers, and in metalworking and hydraulic fluids.

10. DISCUSSION OF INDIVIDUAL TESTS OR STUDIES:

Refer to the attached review.

11. COMPLETION OF ONE-LINER:

The One-Liner Database for octhilinone has been updated.

12. CBI APPENDIX:

All data reviewed here are considered "company confidential" by the registrant and must be treated as such.

RIN # 1161-02

DEPS

Page \_\_\_\_\_ is not included in this copy.

Pages ~~5~~ through 17 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.

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.