TO:  Robert Taylor  
Product Manager PM 25  
Special Review and Reregistration Division (H7508W)

FROM:  Elizabeth Behl, Head  
Ground Water Technology Section  
Environmental Fate & Ground Water Branch/EFED (H7507C)

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

Attached, please find the EFGWB review of...

Reg./File # :  
Common Name :  Atrex  
Product Name :  Atrex  
Company Name :  Ciba Corporation  
Purpose :  Review Monitoring Data from California.

Type Product :  Herbicide  
Action Code:  SAS  
EFGWB #(s):  93-0665  
Review Time:  0.5 days

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<tr>
<th>EFGWB Guideline/MRID/Status Summary Table:</th>
<th>The review in this package contains</th>
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<td>161-1</td>
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Y = Acceptable (Study satisfied the Guideline)/Concur  
P = Partial (Study partially satisfied the Guideline, but additional information is still needed)  
S = Supplemental (Study provided useful information, but Guideline was not satisfied)  
N = Unacceptable (Study was rejected)/Non-Concur
CASE: 284663
SUBMISSION: S440068

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: MISCELLANEOUS
ACTION: 405 6(A)(2) ADVERSE DATA
CHEMICALS: 080803 Atrazine (ANSI) 0.0000%

ID#: 284663

COMPANY:
PRODUCT MANAGER: 25 ROBERT TAYLOR 703-305-6800 ROOM: CM2 241
PM TEAM REVIEWER: WESLEY ALLEN 703-305-5706 ROOM: CM2 251
RECEIVED DATE: 04/27/93 DUE OUT DATE: 07/06/93

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 190896 EXPEDITE: N DATE SENT: 05/03/93 DATE RET.: / /
CHEMICAL: 080803 Atrazine (ANSI)
DP TYPE: 001 Submission Related Data Package
ADMIN DUE DATE: 05/28/93 CSF: N LABEL: N

ASSIGNED TO DATE IN DATE OUT
DIV : EFED 05/04/93 / /
BRAN: EFGB 05/04/93 05/10/93
SECT: GTS 05/05/93 05/05/93
REVR : EWALDMAN 05/05/93 05/05/93
CONTR: / / / /

* * * DATA REVIEW INSTRUCTIONS * * *

PLEASE REVIEW SAMPLING FOR PEST. IN WELL WATER

* * * ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION * * *

DP BC BRANCH/SECTION DATE OUT DUE BACK INS CSF LABEL
1. **CHEMICAL:**

   Chemical name: 2-chloro-4-(ethylamino)-6-(isopropyl amino)-s-triazine  
   Common name: Atrazine  
   Trade name(s): AAtrex  
   Structure:
   ![Atrazine Structure](image)

2. **TEST MATERIAL:**

   Not Applicable.

3. **STUDY/ACTION TYPE:**

   Review Pesticide Detections in Ground Water in California.

4. **STUDY IDENTIFICATION:**

   **Title:** Sampling for Pesticide Residues in California Well Water; 1992 Well Inventory Data Base, Cumulative Report 1986-1992
   
   **Author:** California Environmental Protection Agency
   
   **Submitted for:** Ciba Corporation  
   P.O. Box 18300  
   Greensboro, NC 27419-8300
   
   **DP Barcode(s):** D190896  
   **Identification Number:** 284663  
   **Date Sent to EFED:** 5/04/93

5. **REVIEWED BY:**

   Estella Waldman  
   Hydrologist  
   OPP/EFED/EFGWB/Ground-Water Section  
   **Signature:** [Signature]  
   **Date:** 5/5/93

6. **APPROVED BY:**

   Elizabeth Behl  
   Acting Section Head  
   OPP/EFED/EFGWB/Ground-Water Section  
   **Signature:** [Signature]  
   **Date:** 5/5/93
7. CONCLUSIONS:

The submitted report contains information about ground-water wells in California that were sampled for pesticide residues. The monitoring data indicate detections in ground water of several pesticides manufactured by Ciba Corporation including simazine, atrazine, prometon, and diazinon.

The information provided in the submitted report has been incorporated into the "Pesticides in Ground Water Database" and the "Water Resources Impact Analysis for the Triazine Herbicides."

8. RECOMMENDATIONS:

No further action is required on the submitted information.

9. BACKGROUND/DISCUSSION:

The submitted report contains information about ground-water wells in California that were sampled for pesticide residues from November 1, 1983 through June 30, 1992. The data are a compilation of the results from 249 separate monitoring surveys conducted by 35 agencies and three private firms.

The monitoring data indicate detections in ground water of several pesticides manufactured by Ciba Corporation. These include simazine, atrazine, prometon, and diazinon. Simazine was the second most frequently detected pesticide in the wells that were sampled; 32 percent of the wells with detections contained simazine residues (nine counties). Atrazine was the fourth most frequently detected pesticide; residues were detected in 12 percent of the wells (10 counties). Prometon residues were detected in two percent of the sampled wells in three counties.

In addition, one other Ciba product, diazinon, was detected in ground water in California. No information was provided about the concentrations in ground water for any of these pesticides.