6-24-93

Date Out: June 15, 1993

Chemical Code: 080803
DP Barcode: 189526

ENVIRONMENTAL FATE AND GROUND WATER BRANCH

Review Action

To: Robert Taylor, PM #25
Special Review and Reregistration Division (H7508W)

From: David Wells, Acting Section Head
Ground Water Technology Section
Environmental Fate & Ground Water Branch/EFED (H7507C)

Thru: Henry Jacoby, Chief
Environmental Fate & Ground Water Branch/EFED (H7507C) 6/24/93

Attached, please find the EFGWB review of...

Common Name:	Atrazine	**Trade name:**	Aatrex
Company Name:	Ciba-Geigy		
ID #:	284530		
Purpose:	Response to a request for more data on detections of atrazine in Maine		

Type Product:	Action Code:	EFGWB #(s):	Review Time:
Herbicide	405	93-0529	5 Days

STATUS OF STUDIES IN THIS PACKAGE:

Guideline #	MRID	Status[1]
None	426928-01	A

STATUS OF DATA REQUIREMENTS ADDRESSED IN THIS PACKAGE:

Guideline #	Status[2]
None	S

[1]Study Status Codes: A=Acceptable U=Upgradeable C=Ancillary I=Invalid.
[2]Data Requirement Status Codes: S=Satisfied P=Partially satisfied N=Not satisfied R=Reserved W=Waived.

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DP BARCODE: D189526

CASE: 284530 DATA PACKAGE RECORD DATE: 06/25/93
SUBMISSION: S437558 BEAN SHEET Page 1 of 1

* * * CASE/SUBMISSION INFORMATION * * *

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

ID#: 284530
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: 03/10/93 DUE OUT DATE: 05/19/93

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 189526 EXPEDITE: N DATE SENT: 03/24/93 DATE RET.: / /
CHEMICAL: 080803 Atrazine (ANSI)
DP TYPE: 001 Submission Related Data Package
ADMIN DUE DATE: 04/18/93 CSF: N LABEL: N

ASSIGNED TO	DATE IN	DATE OUT
DIV : EFED	03/25/93	/ /
BRAN: EFGB	03/29/93	06/24/93
SECT: GTS	03/29/93	06/24/93
REVR : EBEHL	03/29/93	06/24/93
CONTR: 93-0529	/ /	/ /

* * * DATA REVIEW INSTRUCTIONS * * *

PLEASE REVIEW GROUND WATER DETECTION IN MA'INE ATRAZINE
MERID 426928-01 ATTN BETSY BEHL;

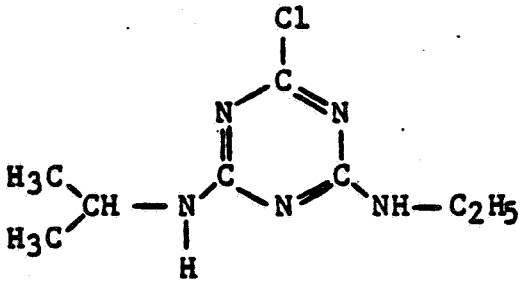
* * * ADDITIONAL DATA PACKAGES FOR THIS SUBMISSION * * *

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL

1. CHEMICAL: Common name: Atrazine

Chemicalname:2-Chloro-4-(ethylamino)-6-(isopropylamino)-s-triazine

Structure:



2. TEST MATERIAL: N/A

3. STUDY/ACTION TYPE: 6(a)2 Action - Atrazine detections in Maine

4. STUDY IDENTIFICATION: Letter from Karen S. Stumpf, Senior Regulatory Manager, Regulatory Affairs, Ciba-Geigy, to Robert J. Taylor, March 3, 1993, re Field Test Number RS-WM-008-92, Reports 1-9, and 16.

5. REVIEWED BY: Patrick J. Hannan

Signature: Patrick J. Hannan

6. APPROVED BY: David Wells, Acting Head
OPP/EFED/EFGWB Ground Water Section

Signature: David A Wells

7. CONCLUSIONS: It is likely that contamination of all the wells was the result of normal field use. In those instances in which follow-up analyses were made, approximately six months following the initial, the concentrations of residues found in each well were similar.

8. RECOMMENDATIONS: Data on the incidence of pesticides in the wells noted in this report will be included in the next update of the EPA Pesticides Ground-Water Database. No other recommendations are made at this time.

9,10. BACKGROUND/DISCUSSION: The Residue Test Reports submitted by Ciba-Geigy provided information on concentrations of atrazines, atrazine degradates (G-28273, G-28279, and G-30033), simazine, cyanazine, and metolachlor found in a variety of wells in

Maine. Also, included in this information for each analysis were the Ciba-Geigy Numeric Number, a Sample ID including the name of the owner, concentrations of the pesticides listed, nitrate concentrations, and Sample Date and Analysis Date. Under the term Cooperator Name and Address was Ms Tammy Gould

Board of Pesticides Control
333 Deering Bldg, AMHI Complex
Augusta
Maine 04333

Ms Gould was contacted by phone and she supplied extensive information on the wells and the concentrations of pesticides found; her database did not include analyses for the degradates of atrazine. Ciba-Geigy provided information only on the initial analyses, but the Sample Numbers used by Ciba-Geigy and the State of Maine were identical for the initial analyses. Triazine concentrations in the wells were generally low and all were below the MCL's and HA's. Thirty two wells contained parent atrazine residues ranging from 0.02 - 1.7 ppb. Eight wells contained simazine residues (0.01 - 0.98 ppb) and five wells contained cyanazine (0.03 - 0.16 ppb).

TRIAZINE DETECTIONS IN MAINE

County/Town	Well	Date	Parts per Billion ATRH	SIMH	CYAH
Aroostook Easton	02BPC018	?	.06	ND	ND
Androscoggin Auburn	01BPC005	1/27/92	.08	ND	ND
Kennebec Waterville	06BPC005	1/17/92	.47	ND	ND
	"	8/7/92	.27	ND	ND
Somerset Skowhegan	13BPC015	?	.09	ND	ND
Oxford Fryeburg	09BCP011	?	ND	ND	ND
Oxford Buckfield	09BCP010	?	ND	ND	ND
Penobscot East Corinth	11BPC009	?	.11	ND	ND
Knox Union	15BPC006	1/28/92	.05	.09	ND
	"	8/18/92	.08	.27	ND
Aroostook Crouseville	02BPC010	?	.17	.32	ND
Somerset Cambridge	13BPC016	8/19/92	.97	ND	.16
Penobscot Millinocket	11BPC018	1/16/92	.13	ND	ND
	"	8/19/92	.09	ND	ND
Kennebec Winthrop	06BPC014	?	ND	ND	ND
Androscoggin Turner	01BPC008	?	.13	ND	ND
Kennebec Oakland	06BPC017	?	.11	ND	ND

County/Town	Well	Date	ATRH	SIMH	CYAH
Androscoggin Leeds	01BPC006 "	1/29/92 8/18/92	.32 .25	ND .02	ND ND
Androscoggin Sabattus	01BPC018 "	2/6/92 8/7/92	.19 .64	ND ND	ND ND
Somerset Canaan	13BPC003 "	1/13/92 8/10/92	.37 .61	ND ND	ND ND
Lincoln Newcastle	08BPC003 "	1/30/92 8/18/92	.09 .53	ND ND	ND .03
Penobscot East Corinth	11BPC008 "	1/8/92 8/12/92	.09 .13	ND ND	ND ND
Androscoggin Turner	01BPC020 "	2/7/92 8/7/92	.75 .31	ND ND	ND ND
Kennebec Windsor	06BPC010 "	1/31/92 8/17/92	.39 .72	ND ND	ND ND
Piscataquis Dower-Foxcroft	10BPC006	2/13/92	ND	ND	ND
Androscoggin Auburn	01BPC023	8/26/92	.17	ND	ND
Kennebec Monmouth	06BPC015 "	2/4/92 8/11/92	ND ND	.86 .98	ND .04
Aroostook Island Falls	02BPC020	8/19/92	ND	ND	ND
Penobscot Bradford	11BPC013 "	1/9/92 8/12/92	.29 .17	ND ND	ND ND
Androscoggin Livermore Fall	01BPC010	2/3/92	.04	ND	ND
Kennebec Clinton	06BPC004 "	1/15/92 8/10/92	.86 .45	ND ND	.07 ND

County/Town	Well	Date	ATRH	SIMH	CYAH
Kennebec	12BPC001	1/30/92	.10	ND	ND
Gardiner	"	8/17/92	.12	ND	ND
Androscoggin	01BPC001	1/8/92	ND	.05	ND
Turner	"	8/6/92	ND	ND	ND
Piscataquis	10BPC005	2/13/92	1.2	ND	ND
Dower-Foxcroft	"	8/20/92	1.7	.03	.03
Penobscot	13BPC007	1/15/92	ND	.04	ND
Dexter	"	8/19/92	ND	ND	ND
Penobscot	11BPC006	1/8/92	.60	ND	ND
Dexter	"	8/19/92	.49	ND	ND
Somerset	13BPC017	8/19/92	.11	ND	ND
Cambridge					
Cumberland	03BPC001	1/7/92	.32	ND	ND
New Gloucester	"	8/7/92	.09	ND	ND
Kennebec	06BPC011	1/31/92	.23	ND	ND
Windsor	"	8/17/92	.33	ND	ND
York	16BPC004	1/14/92	.29	ND	ND
Berwick	"	8/27/92	.61	ND	ND
Penobscot	11BPC005	1/7/92	.05	ND	ND
Corinna	"	8/19/92	.02	ND	ND
Penobscot	11BPC012	1/9/92	.89	ND	ND
Bradford	"	8/12/92	.77	ND	ND
Kennebec	06BPC013	2/4/92	.15	ND	ND
Monmouth	"	8/17/92	.41	.01	ND

KEY: ATRH = Atrazine by HPLC, detection limit .04 ppb
SIMH = Simazine " " " " " "
CYAH = Cyanazine " " " " " "

(All numbers cited are parts per billion)