

US EPA ARCHIVE DOCUMENT

DP Barcode : 177694  
PC Code No. : 080803  
EFGWB Out :

11/23/92

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

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

*David A. Webb for EB*

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

*Henry Jacoby*

Attached, please find the EFGWB review of...

Reg./File # : L.D. #283579

Common Name : Atrazine

Product Name : Aatrex

Company Name : Ciba-Geigy

Purpose : To obtain additional atrazine, simazine and prometon residue data from Texas Dept. of Agric. and Bookman-Edmonston Engr. (Glendale, Cal.)

Type Product : Herbicides

Action Code : 405 (b)(2) EFGWB #(s): 92-0819 Total Review Time = 1/4 days

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

161-1	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

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

DP BARCODE: D177694

CASE: 283579  
SUBMISSION: S417198

DATA PACKAGE RECORD  
BEAN SHEET

DATE: 05/05/92  
Page 1 of 1

\* \* \* CASE/SUBMISSION INFORMATION \* \* \*

CASE TYPE: MISCELLANEOUS ACTION: ~~405-6(a)(2) ADVERSE DATA~~  
CHEMICALS: 080803 Chloro-4-(ethylamino)-6-(isopropylamino)-s-triazin 0.0000%

ID#: 283579

COMPANY: CIBA-GEIGY CORP.

PRODUCT MANAGER: 25 ROBERT TAYLOR 703-305-6800 ROOM: CM2 241

PM TEAM REVIEWER: JAMES MORRILL 703-305-5705 ROOM: CM2 251

RECEIVED DATE: 04/20/92 DUE OUT DATE: 06/29/92

\* \* \* DATA PACKAGE INFORMATION \* \* \*

DP BARCODE: 177694 EXPEDITE: N DATE SENT: 05/05/92 DATE RET.: / /

CHEMICAL: 080803 Chloro-4-(ethylamino)-6-(isopropylamino)-s-triazine

DP TYPE: 001 Submission Related Data Package

ADMIN DUE DATE: 05/30/92 CSF: N LABEL: N

ASSIGNED TO	DATE IN	DATE OUT
DIV : EFED	05/07/92	/ /
BRAN: EFGB	/ /	/ /
SECT: GTS	/ /	/ /
REVR :	/ /	/ /
CONTR:	/ /	/ /

\* \* \* DATA REVIEW INSTRUCTIONS \* \* \*

Attn: Betsy Behl

Please review attached reports of detections of atrazine, its metabolites and/or secondary chemicals at 4 separate sites. MRID numbers are as follows: 422839-01, 422840-1, 422841-1, and 422843-1.

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

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL
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EFGWB # 92-0819

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

Pages 3 through 2 are not included.

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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.

X 6(A)(2) DATA

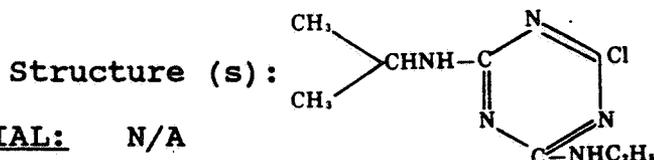
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The information not included is generally considered confidential by product registrants. If you have any questions, please contact the individual who prepared the response to your request.

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1. CHEMICAL: Common name(s): Prometon, atrazine, simazine and chloro-triazine metabolites.

Chemical name(s): (atrazine) 2-chloro-4-(ethylamino)-6-(isopropyl amino)-s-triazine



2. TEST MATERIAL: N/A

3. STUDY/ACTION TYPE: 6(a)2 Action - resampling of 9 wells in Texas known to have prometon residue from a previous survey and 11 samples in California all of which contained simazine. Acknowledge receipt of pesticide residue detections and request the full reports identified below in STUDY IDENTIFICATION.

4. STUDY IDENTIFICATION: Ciba-Geigy residue test report RS-WM-003-92, Report Nos. 1, 2, and 3, and Residue Test Report RS-WM-020-91 Report Nos. 01, 02, 04 and 05.

5. REVIEWED BY: John H. Jordan, Ph.D.  
OPP/EFED/EFGWB/Ground-Water Section  
Signature: John H. Jordan

Date: 11/23/92

6. APPROVED BY: Elizabeth Behl, Head  
OPP/EFED/EFGWB/Ground-Water Section  
Signature: D. A. Wells for EB

Date: 11/23/92

7. CONCLUSIONS: In Texas, parent prometon residues were found in 8 of the 9 samples at levels below the current MCL of 100 ppb, ranging from 0.15 ppb to 5.5 ppb. Parent atrazine residues were found in two of the 9 samples at levels, below the current MCL of 3 ppb, ranging from 0.16 ppb to 0.69 ppb. Parent simazine residues were found in 1 of the 9 samples at 0.17 ppb, which is below the current MCL of 4 ppb. Residues of two chloro-triazine metabolites were found in 5 of 9 samples ranging from 0.10 ppb to 0.22 ppb; metabolites were: 2-amino-4-chloro-6-isopropylamino-s-triazine and 2-amino-4-chloro-6-ethylamino-s-triazine.

In California, parent atrazine residues were found in all 11 samples at levels below the MCL/HAL ranging from 0.14 ppb to 0.97 ppb. Parent simazine residues were found in all 11 samples below the MCL/HAL, ranging from 0.30 ppb to 0.85 ppb.

8. RECOMMENDATIONS: The Agency needs the reports identified in the Study Identification Section for inclusion in the Pesticides in Ground Water Data Base. The registrant should also complete the attached work-sheet in as much detail as possible.
9. BACKGROUND/DISCUSSIONS: Ciba-Geigy has been cooperating with the Texas Department of Agriculture and re-sampled nine wells known to contain prometon residues from a previous survey. Well samples were collected from north central Texas in January, 1992 and submitted to Ciba-Geigy for analyses.

Ciba-Geigy has been cooperating with Bookman-Edmonston Engineering in Glendale, California in a split sample analysis program. Well water samples were collected in December, 1991 and submitted to Ciba-Geigy for analyses.

Additional specific information is required to locate/identify and evaluate reported detections of pesticide residues in ground water. If a monitoring program is of fairly short duration, e.g., one year, a final report of detections is sufficient. An annual report of detections is required if a monitoring program is long term, e.g., from 2 - 10 years or longer.

Monitoring reports should be accompanied by computerized raw data submitted on disks. Disks must be IBM compatible and the software and/or file format must be identified. Computer disks must be accompanied by a description of rows (records) and columns (fields).

**ENVIRONMENTAL FATE DATA EXTRACTION SHEET  
GROUND WATER MONITORING STUDY - STUDY IDENTIFICATION**

**INSTRUCTIONS:** Complete one study identification sheet for each ground water study location.

STUDY TITLE: \_\_\_\_\_  
 CONTACT PERSON: \_\_\_\_\_ TELEPHONE: \_\_\_\_\_  
 STUDY SPONSOR: \_\_\_\_\_  
 GUIDELINE NUMBER: \_\_\_\_\_  
 MRID: \_\_\_\_\_  
 CAS#: \_\_\_\_\_  
 PC-CODE: \_\_\_\_\_  
 CHEMICAL NAME: \_\_\_\_\_

LOCATION: COUNTRY \_\_\_\_\_ COUNTY \_\_\_\_\_ STATE \_\_\_\_\_

PESTICIDE APPLICATION

AMOUNT APPLIED \_\_\_\_\_ lbs-ai/acre  
 MEASURED CONCENTRATION \_\_\_\_\_ mg/g  
 MAXIMUM ALLOWED \_\_\_\_\_  
 NO. APPLICATIONS \_\_\_\_\_  
 INTERVAL \_\_\_\_\_  
 METHOD OF APPLICATION \_\_\_\_\_  
 FORMULATION \_\_\_\_\_  
 DATE OF LAST APPLICATION \_\_\_\_\_  
 YEARS OF USE \_\_\_\_\_  
 APPLICATION SITE \_\_\_\_\_ (bare ground, crop type)

STUDY CONDITIONS

CUMULATIVE RAIN FALL \_\_\_\_\_ in  
 MAXIMUM RAIN FALL \_\_\_\_\_ in  
 MAXIMUM RAIN FALL DATE \_\_\_\_\_  
 CUMULATIVE IRRIGATION \_\_\_\_\_ in  
 HIGH TEMPERATURE \_\_\_\_\_  
 LOW TEMPERATURE \_\_\_\_\_  
 BEGINNING DATE \_\_\_\_\_  
 ENDING DATE \_\_\_\_\_  
 EVAPOTRANSPIRATION \_\_\_\_\_ in

LIMIT OF DETECTION \_\_\_\_\_

METHOD OF ANALYSIS \_\_\_\_\_

COMMENTS \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

GROUND WATER STUDY SUMMARY

	<u>YES/NO</u>
MOBILITY TRIGGER MET?	_____
PERSISTENCE TRIGGER MET?	_____
FIELD MONITORING TRIGGER MET?	_____
ARE THERE PARENT DETECTS?	_____
ARE THERE DEGRADATE DETECTS?	_____
ARE DEGRADATE ANALYSES PERFORMED?	_____

ENVIRONMENTAL FATE DATA EXTRACTION SHEET  
GROUND WATER MONITORING STUDY - SOIL PROPERTIES

INSTRUCTIONS: Provide soils information for each ground water study location.

MRID [REDACTED]

LOCATION: COUNTRY [REDACTED] COUNTY [REDACTED] STATE [REDACTED]

SOIL PROPERTIES

SERIES [REDACTED]

HYDROLOGIC GROUP	[REDACTED]	pH	[REDACTED]
MINERALOGY	[REDACTED]	CEC (meq/100g)	[REDACTED]
USDA TEXTURE	[REDACTED]	PCT ORGANIC MATTER	[REDACTED]
TEXTURE (%)	SAND [REDACTED]	PCT ORGANIC CARBON	[REDACTED]
	SILT [REDACTED]	PCT MOISTURE @15BAR	[REDACTED]
	CLAY [REDACTED]	PCT MOISTURE @0.3BAR	[REDACTED]
HYDRAULIC CONDUCTIVITY	[REDACTED]	BULK DENSITY (g/cm <sup>3</sup> )	[REDACTED]
		PORE VOLUME (%)	[REDACTED]

LOCATION: COUNTRY [REDACTED] COUNTY [REDACTED] STATE [REDACTED]

SOIL PROPERTIES

SERIES [REDACTED]

HYDROLOGIC GROUP	[REDACTED]	pH	[REDACTED]
MINERALOGY	[REDACTED]	CEC (meq/100g)	[REDACTED]
USDA TEXTURE	[REDACTED]	PCT ORGANIC MATTER	[REDACTED]
TEXTURE (%)	SAND [REDACTED]	PCT ORGANIC CARBON	[REDACTED]
	SILT [REDACTED]	PCT MOISTURE @15BAR	[REDACTED]
	CLAY [REDACTED]	PCT MOISTURE @0.3BAR	[REDACTED]
HYDRAULIC CONDUCTIVITY	[REDACTED]	BULK DENSITY (g/cm <sup>3</sup> )	[REDACTED]
		PORE VOLUME (%)	[REDACTED]

LOCATION: COUNTRY [REDACTED] COUNTY [REDACTED] STATE [REDACTED]

SOIL PROPERTIES

SERIES [REDACTED]

HYDROLOGIC GROUP	[REDACTED]	pH	[REDACTED]
MINERALOGY	[REDACTED]	CEC (meq/100g)	[REDACTED]
USDA TEXTURE	[REDACTED]	PCT ORGANIC MATTER	[REDACTED]
TEXTURE (%)	SAND [REDACTED]	PCT ORGANIC CARBON	[REDACTED]
	SILT [REDACTED]	PCT MOISTURE @15BAR	[REDACTED]
	CLAY [REDACTED]	PCT MOISTURE @0.3BAR	[REDACTED]
HYDRAULIC CONDUCTIVITY	[REDACTED]	BULK DENSITY (g/cm <sup>3</sup> )	[REDACTED]
		PORE VOLUME (%)	[REDACTED]

ENVIRONMENTAL FATE DATA EXTRACTION SHEET  
GROUND WATER STUDIES - WELL DESCRIPTION

INSTRUCTIONS: Complete information for each well in the ground water study. Well data can be entered electronically.

MRID [REDACTED]

WELL NUMBER: [REDACTED]

WELL USE: [REDACTED]

WELL DEPTH

WELL [REDACTED]  
SCREEN TOP [REDACTED]  
SCREEN BOTTOM [REDACTED]  
ALTITUDE [REDACTED]  
WATER TABLE [REDACTED]

WELL LOCATION

LATITUDE [REDACTED]  
LONGITUDE [REDACTED]  
CITY [REDACTED]  
COUNTY [REDACTED]  
STATE [REDACTED]

WELL NUMBER: [REDACTED]

WELL USE: [REDACTED]

WELL DEPTH

WELL [REDACTED]  
SCREEN TOP [REDACTED]  
SCREEN BOTTOM [REDACTED]  
ALTITUDE [REDACTED]  
WATER TABLE [REDACTED]

WELL LOCATION

LATITUDE [REDACTED]  
LONGITUDE [REDACTED]  
CITY [REDACTED]  
COUNTY [REDACTED]  
STATE [REDACTED]

WELL NUMBER: [REDACTED]

WELL USE: [REDACTED]

WELL DEPTH

WELL [REDACTED]  
SCREEN TOP [REDACTED]  
SCREEN BOTTOM [REDACTED]  
ALTITUDE [REDACTED]  
WATER TABLE [REDACTED]

WELL LOCATION

LATITUDE [REDACTED]  
LONGITUDE [REDACTED]  
CITY [REDACTED]  
COUNTY [REDACTED]  
STATE [REDACTED]

WELL NUMBER: [REDACTED]

WELL USE: [REDACTED]

WELL DEPTH

WELL [REDACTED]  
SCREEN TOP [REDACTED]  
SCREEN BOTTOM [REDACTED]  
ALTITUDE [REDACTED]  
WATER TABLE [REDACTED]

WELL LOCATION

LATITUDE [REDACTED]  
LONGITUDE [REDACTED]  
CITY [REDACTED]  
COUNTY [REDACTED]  
STATE [REDACTED]

WELL NUMBER: [REDACTED]

WELL USE: [REDACTED]

WELL DEPTH

WELL [REDACTED]  
SCREEN TOP [REDACTED]  
SCREEN BOTTOM [REDACTED]  
ALTITUDE [REDACTED]  
WATER TABLE [REDACTED]

WELL LOCATION

LATITUDE [REDACTED]  
LONGITUDE [REDACTED]  
CITY [REDACTED]  
COUNTY [REDACTED]  
STATE [REDACTED]

