

US EPA ARCHIVE DOCUMENT

DP Barcode : 0173546  
 PC Code No. : 080803  
 EFGWB Out : 10-6-92

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

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

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

Attached, please find the EFGWB review of...

Reg./File # : FD # 283145

Common Name : ATRAZINE

Product Name : AATREX

Company Name : Ciba Geigy

Purpose : Acknowledge ATRAZIN AND metolachlor IN TAP WATER-Howard Co. Md.

Type Product : Herbicide

Action Code : 405 (6/02) EFGWB #(s): 92-0471 Total Review Time = 1/2 days

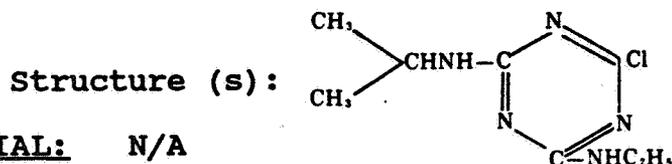
EFGWB Guideline/MRID/Status Summary Table: The review in this package contains...

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

1. CHEMICAL: Common name(s): atrazine

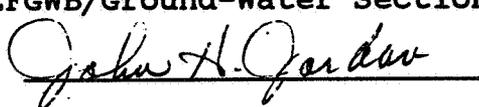
Chemical name(s): 2-chloro-4-(ethylamino)-6-(isopropyl amino)-s-triazine



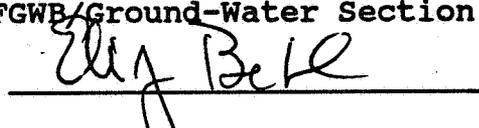
2. TEST MATERIAL: N/A

3. STUDY/ACTION TYPE: Acknowledge receipt of atrazine and metolachlor detections in tap water from samples taken near a dealer location in Howard County, Maryland.

4. STUDY IDENTIFICATION: A documentation of atrazine and metolachlor detections in tap water samples.

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

Date: 9/30/92

6. APPROVED BY: Elizabeth Behl, Head  
OPP/EFED/EFGBW/Ground-Water Section  
Signature: 

Date: 9/30/92

7. CONCLUSIONS: The registrant notified EPA of atrazine and metolachlor detection in tap water samples near a dealer location in Howard Co., Maryland. Ciba-Geigy confirmed levels of 43 ppb atrazine and 188 ppb metolachlor. The county health department's analyses detected 39 ppb atrazine and 231 ppb metolachlor. More detailed information is required as specified in the attached form. The information will be included in EPA's Pesticides in Ground Water Database.

8. RECOMMENDATIONS: The registrant should complete the attached 6(a)2 data work sheet and submit the information to the Agency.

9. BACKGROUND/DISCUSSIONS: The data in this action were submitted under Section 6(a)2 of FIFRA. The report of detections contained results of atrazine and metolachlor analyses in samples of tap water. The level reported for atrazine was above the maximum contaminant level(MCL=3 ppb)which may result in unreasonable adverse effects.

2.

Additional specific information is required to locate/identify and evaluate the reported detections of the atrazine residues in ground water. The information requested on the attached 6(a)2 data work sheet will, in most cases, be adequate to meet the requirement. 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.

The 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. The computer disks must be accompanied by a description of rows (records) and columns (fields). These monitoring results will be included in OPP's Pesticides in Ground Water Database.

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

Pages 5 through 6 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.
- G(A)(2) DATA

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.

October 28, 1988

Mr. Richard F. Mountfort  
Product Manager (23)  
Registration Division (TS-767C)  
Office of Pesticide Programs  
U.S. Environmental Protection Agency  
401 M. Street, S.W.  
Washington, D.C. 20460

Dear Mr. Mountfort:

**SUBJECT: REPORT OF FINDINGS OF ATRAZINE AND  
METOLACHLOR IN HOWARD COUNTY, MARYLAND**

It has come to the attention of CIBA-GEIGY that high levels of atrazine and metolachlor have been detected in tap water from samples taken near a dealer location in Howard County, Maryland. CIBA-GEIGY has confirmed levels of 43 ppb atrazine and 188 ppb metolachlor.

According to tests conducted by county officials, high levels of another pesticide, nitrates, and petroleum products have also been found. The county health department's tests found 39 ppb atrazine and 231 ppb metolachlor.

These high levels are of concern to CIBA-GEIGY. At this point, the dealer has not been able to offer any information which would lead us to identify the cause for these findings, however a spill or other point source cannot be ruled out.

CIBA-GEIGY plans to further investigate these findings and will provide the Agency with an update as appropriate.

Sincerely,

Karen S. Stumpf  
Senior Regulatory Specialist  
Regulatory Affairs

bcc: R. Feulner/Reg. Chron  
J. Harrison  
K. Miller  
T. Parshley

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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

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

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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]

