

US EPA ARCHIVE DOCUMENT

DP Barcode : D173544
PC Code No. : 030803
EFGWB Out : 10-6-92

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

FROM: Elizabeth Behl, Head *E Behl*
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 # : ID # 283143

Common Name : ATRAZINE

Product Name : AATREX

Company Name : Ciba Geigy

Purpose : Acknowledge ATRAZINE AND CYANAZINE detection in wells

Type Product : Herbicide

Action Code : 405 (e)(1/2) EFGWB #(s): 92-0470 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

DP BARCODE: D173544

CASE: 283143
SUBMISSION: S410300

DATA PACKAGE RECORD
BEAN SHEET

DATE: 01/27/92
Page 1 of 1

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: MISCELLANEOUS ACTION: 405 DATA-ADVERSE DATA
CHEMICALS: 080803 Atrazine (2-chloro-4-(ethylamino)-6-(isopropylami 0.0000%
100101 Cyanazine 0.0000%

ID#: 283143
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: 01/13/92 DUE OUT DATE: 03/23/92

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 173544 EXPEDITE: N DATE SENT: 01/27/92 DATE RET.: / /
CHEMICAL: 080803 Atrazine (2-chloro-4-(ethylamino)-6-(isopropylamino)-s-tri
DP TYPE: 001 Submission Related Data Package
ADMIN DUE DATE: 02/21/92 CSF: N LABEL: N

ASSIGNED TO	DATE IN	DATE OUT
DIV : EFED	01/29/92	/ /
BRAN: EFGB	/ /	/ /
SECT: GTS	/ /	9/30/
REVR :	/ /	/ /
CONTR:	/ /	/ /

* * * DATA REVIEW INSTRUCTIONS * * *

Please review attached (a)(2) report (MRID# 421662-01) of finding of Atrazine and Cyanazine in wells at a dealer location in Winchester VA.

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

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

EFG#: 0470

Page ____ is not included in this copy.

Pages 3 through 5 are not included.

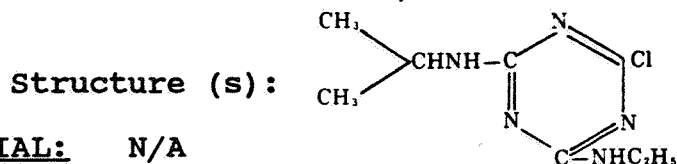
The material not included contains the following type of information:

- 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.

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 cyanazine detections in well water samples and request additional information.

4. STUDY IDENTIFICATION: A documentation of atrazine and cyanazine detections in well water samples.

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

Date: 9/30/92

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

Date: 9/30/92

7. CONCLUSIONS: The registrant notified EPA of atrazine and cyanazine detections in well water samples from the Valley Fertilizer site in Winchester, Virginia. One of three samples contained atrazine at the 3 ppb HAL; degradates were not analyzed. Cyanazine was detected from 11 to 12 ppb in the three samples; the HAL is 10 ppb. 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 cyanazine analyses in samples of well water. The level reported for cyanazine was above the maximum contaminant level (MCL=10 ppb) which may result in unreasonable adverse effects.

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.

**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

LOCATION: COUNTRY COUNTY STATE

SOIL PROPERTIES

SERIES

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

LOCATION: COUNTRY COUNTY STATE

SOIL PROPERTIES

SERIES

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

LOCATION: COUNTRY COUNTY STATE

SOIL PROPERTIES

SERIES

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

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]

