DP Barcode : D173544
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
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 # : 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(a)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 6(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

EFGB#: 0470

ATRAZINE 080803

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.

X FIFRA registration data.

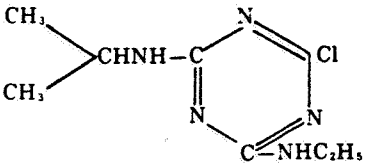
____ The document is a duplicate of page(s) _____.

____ 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

Structure (s): 

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

	YES/NO
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

WELL NUMBER: WELL USE:

WELL DEPTH		WELL LOCATION	
WELL		LATITUDE	
SCREEN TOP		LONGITUDE	
SCREEN BOTTOM		CITY	
ALTITUDE		COUNTY	
WATER TABLE		STATE	

WELL NUMBER: WELL USE:

WELL DEPTH		WELL LOCATION	
WELL		LATITUDE	
SCREEN TOP		LONGITUDE	
SCREEN BOTTOM		CITY	
ALTITUDE		COUNTY	
WATER TABLE		STATE	

WELL NUMBER: WELL USE:

WELL DEPTH		WELL LOCATION	
WELL		LATITUDE	
SCREEN TOP		LONGITUDE	
SCREEN BOTTOM		CITY	
ALTITUDE		COUNTY	
WATER TABLE		STATE	

WELL NUMBER: WELL USE:

WELL DEPTH		WELL LOCATION	
WELL		LATITUDE	
SCREEN TOP		LONGITUDE	
SCREEN BOTTOM		CITY	
ALTITUDE		COUNTY	
WATER TABLE		STATE	

WELL NUMBER: WELL USE:

WELL DEPTH		WELL LOCATION	
WELL		LATITUDE	
SCREEN TOP		LONGITUDE	
SCREEN BOTTOM		CITY	
ALTITUDE		COUNTY	
WATER TABLE		STATE	

ENVIRONMENTAL FATE DATA EXTRACTION SHEET
GROUND WATER STUDIES - STUDY RESULTS

INSTRUCTION: Provide information for each sample taken. Sample data can be entered electronically.

MRID
CAS NUMBER

WELL NUMBER	SAMPLE DATE	MEDIA	CONCENTRATION (ug/L)	LOD (ug/L)	CONTAM SOURCE

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