

US EPA ARCHIVE DOCUMENT

DP Barcode : D173525
 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 *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 # 283170

Common Name : ATRAZINE

Product Name : AA+rex

Company Name : Giba Geigy

Purpose : Acknowledge additional 60/2 follow-up data - Jackson Co. Florida

Type Product : Herbicide

Action Code : 405 [60/2] EFGWB #(s): 92-0469 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: D173525

CASE: 283170
SUBMISSION: S410265

DATA PACKAGE RECORD
BEAN SHEET

DATE: 01/24/92
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%

ID#: 283170
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: 173525 EXPEDITE: N DATE SENT: 01/24/92 DATE RET.: / /
CHEMICAL: 080803 Atrazine (2-chloro-4-(ethylamino)-6-(isopropylamino)-s-tri
DP TYPE: 001 Submission Related Data Package
ADMIN DUE DATE: 02/18/92 CSF: N LABEL: N

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

* * * DATA REVIEW INSTRUCTIONS * * *

Please review attached 6(a)(2) report (MRID# 421665-01) of findings of atrazine in wells in Jackson County, FL. This is a followup to earlier 6(a)(2) submission dated November 27, (MRID# 421161-01) which reported results of split sampling done earlier in June and July.

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

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL
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EF# : 0469

Page _____ is not included in this copy.

Pages 3 through 5 are not included.

The material not included contains the following type of information:

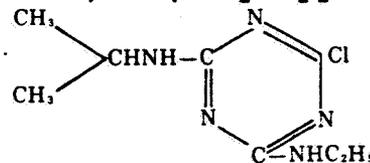
- Identity of product inert ingredients.
- Identity of product impurities.
- Description of the product manufacturing process.
- Description of quality control procedures.
- Identity of the source of product ingredients.
- Sales or other commercial/financial information.
- A draft product label.
- The 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-triazazine

Structure (s):



2. TEST MATERIAL: N/A

3. STUDY/ACTION TYPE: Acknowledge receipt of follow-up report for atrazine and degradate residues in Jackson County, Florida wells.

4. STUDY IDENTIFICATION: " MRID - report # 421665-01 of Ciba-Geigy Chemicals Found in Ground Water - Jackson Co., Florida", from October 1991 sampling. This is a follow-up to an earlier 6(a)2 submission dated 11/27/91 (MRID# 421161-01) which reports results of sampling in June and July 1991 (letter from Karen Stumpf to Robert J. Taylor; January 3, 1992).

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:

Twenty-three ground-water samples were analyzed for atrazine and three metabolites. Six samples (26%) contained atrazine residues ranging from 0.1 - 1.8 ppb. The other seventeen samples contained no detectable atrazine residues using a detection limit of 0.1 ppb. Analyses were also done for three metabolites (G-30033, G28273, and G28279); residues of G-30033 ranged from 0.12 to 0.30 ppb in 5 samples. No residues of G-28279 or G-28273 were detected in any of the samples. None of the atrazine residues in these ground-water samples exceeded the 3 ppb MCL. No MCL has been established for the degradates.

8. RECOMMENDATIONS: The registrant should continue to report results of cooperative monitoring for atrazine and metabolites in Jackson County, Florida. The registrant should fill out the attached 6(a)2 data work sheet and submit the information to the Agency.

9. BACKGROUND/DISCUSSIONS: Please refer to Summary - 6(A)2 Reporting of atrazine - ground water, Florida. Ground-water samples from wells in Jackson County, Florida have been analyzed for atrazine and atrazine metabolites since June 1991. Analyses are being done under a cooperative agreement between Ciba-Geigy and the Florida Department of Agriculture and Consumer Services.

2.

Other monitoring data collected in this study were submitted to OPP/GWTS and reviewed in EFGWB # 92-0322. The earlier submission reported determination of atrazine in 6 of 36 wells at concentrations ranging from 0.1 - 2.2 ppb. Two chlorotriazine metabolites were detected in 5 of 36 wells at concentrations of 0.12 - 0.28 ppb; the data reviewed in this submission are the results of follow-up sampling in October 1992 - approximately 4 - 5 months later.

**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	<input type="text"/>	pH	<input type="text"/>
MINERALOGY	<input type="text"/>	CEC (meq/100g)	<input type="text"/>
USDA TEXTURE	<input type="text"/>	PCT ORGANIC MATTER	<input type="text"/>
TEXTURE (%)	SAND <input type="text"/>	PCT ORGANIC CARBON	<input type="text"/>
	SILT <input type="text"/>	PCT MOISTURE @15BAR	<input type="text"/>
	CLAY <input type="text"/>	PCT MOISTURE @0.3BAR	<input type="text"/>
HYDRAULIC CONDUCTIVITY	<input type="text"/>	BULK DENSITY (g/cm ³)	<input type="text"/>
		PORE VOLUME (%)	<input type="text"/>

LOCATION: COUNTRY COUNTY STATE

SOIL PROPERTIES

SERIES

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

LOCATION: COUNTRY COUNTY STATE

SOIL PROPERTIES

SERIES

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

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]

<u>WELL DEPTH</u>		<u>WELL LOCATION</u>	
WELL	[REDACTED]	LATITUDE	[REDACTED]
SCREEN TOP	[REDACTED]	LONGITUDE	[REDACTED]
SCREEN BOTTOM	[REDACTED]	CITY	[REDACTED]
ALTITUDE	[REDACTED]	COUNTY	[REDACTED]
WATER TABLE	[REDACTED]	STATE	[REDACTED]

WELL NUMBER: [REDACTED]

WELL USE: [REDACTED]

<u>WELL DEPTH</u>		<u>WELL LOCATION</u>	
WELL	[REDACTED]	LATITUDE	[REDACTED]
SCREEN TOP	[REDACTED]	LONGITUDE	[REDACTED]
SCREEN BOTTOM	[REDACTED]	CITY	[REDACTED]
ALTITUDE	[REDACTED]	COUNTY	[REDACTED]
WATER TABLE	[REDACTED]	STATE	[REDACTED]

WELL NUMBER: [REDACTED]

WELL USE: [REDACTED]

<u>WELL DEPTH</u>		<u>WELL LOCATION</u>	
WELL	[REDACTED]	LATITUDE	[REDACTED]
SCREEN TOP	[REDACTED]	LONGITUDE	[REDACTED]
SCREEN BOTTOM	[REDACTED]	CITY	[REDACTED]
ALTITUDE	[REDACTED]	COUNTY	[REDACTED]
WATER TABLE	[REDACTED]	STATE	[REDACTED]

WELL NUMBER: [REDACTED]

WELL USE: [REDACTED]

<u>WELL DEPTH</u>		<u>WELL LOCATION</u>	
WELL	[REDACTED]	LATITUDE	[REDACTED]
SCREEN TOP	[REDACTED]	LONGITUDE	[REDACTED]
SCREEN BOTTOM	[REDACTED]	CITY	[REDACTED]
ALTITUDE	[REDACTED]	COUNTY	[REDACTED]
WATER TABLE	[REDACTED]	STATE	[REDACTED]

WELL NUMBER: [REDACTED]

WELL USE: [REDACTED]

<u>WELL DEPTH</u>		<u>WELL LOCATION</u>	
WELL	[REDACTED]	LATITUDE	[REDACTED]
SCREEN TOP	[REDACTED]	LONGITUDE	[REDACTED]
SCREEN BOTTOM	[REDACTED]	CITY	[REDACTED]
ALTITUDE	[REDACTED]	COUNTY	[REDACTED]
WATER TABLE	[REDACTED]	STATE	[REDACTED]

