

DP Barcode : 181073
PC Code No. : 080803
EFGWB Out :

11/20/92

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 # 283818

Common Name : ATRAZINE

Product Name : ABTREX

Company Name : Ciba-Geigy

Purpose : Acknowledge 6(a)2 Data; Request Full Report maine Detects

Type Product : Herbicide

Action Code : 405 6(a)2 EFGWB #(s): 92-1220 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: D181073

CASE: 283818
SUBMISSION: S422634

DATA PACKAGE RECORD
BEAN SHEET

DATE: 07/29/92
Page 1 of 1

* * * CASE/SUBMISSION INFORMATION * * *

CASE TYPE: MISCELLANEOUS ACTION: 405 6(A)(2) ADVERSE DATA
CHEMICALS: 080803 Atrazine (ANSI)

0.0000%

ID#: 283818

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: 07/07/92

DUE OUT DATE: 09/15/92

* * * DATA PACKAGE INFORMATION * * *

DP BARCODE: 181073 EXPEDITE: N DATE SENT: 07/29/92 DATE RET.: / /

CHEMICAL: 080803 Atrazine (ANSI)

DP TYPE: 001 Submission Related Data Package

ADMIN DUE DATE: 08/23/92

CSF: N

LABEL: N

ASSIGNED TO	DATE IN	DATE OUT
DIV : EFED	07/30/92	/ /
BRAN: EFGB	/ /	/ /
SECT: GTS	11/20/92	/ /
REVR :	/ /	/ /
CONTR:	/ /	/ /

* * * DATA REVIEW INSTRUCTIONS * * *

Attention Betsy Behl and Company:

Please review attached report of atrazine and simazine detections in groundwater in the state of Maine. MRID# for the report is 423874-01.

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

DP BC	BRANCH/SECTION	DATE OUT	DUE BACK	INS	CSF	LABEL
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6(a)(2)

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.

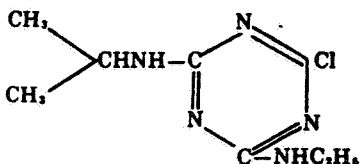
X 6 (A)(2) DATA

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.

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: 6(a)2 Action - Atrazine, simazine and chloro-triazine metabolite detections in Maine ground-water.

4. STUDY IDENTIFICATION: Ciba-Geigy Residue Test Report RS-WM-008-92, Report numbers 01-09, and number 16. A report of Atrazine and Simazine in Maine ground water.

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

Date: 11/20/92

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

Date: 11/20/92

7. CONCLUSIONS:

All detections of parent atrazine and simazine were below the established HAL/MCLs. Parent atrazine residues were found in 6 of 48 samples at levels below the current MCL/HAL of 3 ppb, ranging from 0.12 ppb to 0.56 ppb. Parent simazine residues were found in 1 of 48 samples at 0.15 ppb, a level that is near the limit of determination and below the current MCL/HAL. Three metabolites were found in 13 of 48 samples, ranging from 0.11 ppb to 5.4 ppb; the metabolites were, 2-Amino-4-chloro-6-isopropylamino-s-triazine, 2-Amino-4-chloro-6-ethylamino-s-triazine and 2,4-Diamino-6-chloro-s-triazine. There are no MCL/HALs for these metabolites.

8. RECOMMENDATIONS: Ciba-Geigy should send the reports specified in Item number four, STUDY IDENTIFICATION, for inclusion in the Pesticides in Ground Water Data Base. A form is attached for incorporating as much information pertinent to the detections as is possible.

9. BACKGROUND/DISCUSSIONS:

The data in this action were generated in Ciba- Geigy laboratories from 48 split samples taken by the Maine Board of Pest Control (MBPC) in Jan./Feb. 1992. Samples were collected during a ground-water monitoring program.

Additional specific information is required to locate/identify and evaluate the reported detections of pesticide residues in ground water. The information requested on the attached 6(a)2 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 Data Base.

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 (%)		PCT ORGANIC CARBON	
SAND		PCT MOISTURE @15BAR	
SILT		PCT MOISTURE @0.3BAR	
CLAY		BULK DENSITY (g/cm ³)	
HYDRAULIC CONDUCTIVITY		PORE VOLUME (%)	

LOCATION: COUNTRY COUNTY STATE

SOIL PROPERTIES

SERIES

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

LOCATION: COUNTRY COUNTY STATE

SOIL PROPERTIES

SERIES

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

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]

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

[illegible]